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SUMMARY OF ENVIRONMENTAL STATUS: AOCS 1-5, 8 & 9 FORMER HANSON AGGREGATES RADUM FACILITY PLEASANTON, CALIFORNIA

by Haley & Aldrich, Inc.
Walnut Creek, California

for USL Pleasanton Lakes, L.P.
Foster City, California

File No. 130540-002
August 2017

USL Pleasanton Lakes, L.P.

17 August 2017

Dilan Roe, P.E.
Program Manager
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

Subject: Summary of Environmental Status Report: AOCs 1-5, 8 & 9
Former Hanson Aggregates Radum Facility
Pleasanton, California
(ACDEH SLIC Case Nos. RO0002941 and RO0002952)

Dear Ms. Roe:

The enclosed *Summary of Environmental Status Report: AOCs 1-5, 8 & 9 (Summary Report)*, dated 17 August 2017, was prepared by Haley & Aldrich, Inc. on behalf of USL Pleasanton Lakes, L.P. for the Former Hanson Aggregates Radum Facility located at 3000 Busch Road, Pleasanton, California. This *Summary Report* is being submitted under Alameda County Department of Environmental Health SLIC Case Numbers RO0002941 and RO0002952.

I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely yours,
USL PLEASANTON LAKES, L.P.

John W. Enerson

Enclosures

100 Waugh Drive, Suite 600, Houston, Texas 77007 Phone 713.533.6860 Fax 713.533.5897

HALEY & ALDRICH, INC.
2033 N. Main Street
Suite 309
Walnut Creek, CA 94596
925.949.1012

17 August 2017
File No. 130540-002

Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Attention: Dilan Roe, P.E.
Program Manager

Subject: Summary of Environmental Status Report: AOCs 1-5, 8 & 9
Former Hanson Aggregates Radum Facility
Pleasanton, California
(ACDEH SLIC Case Nos. RO0002941 and RO0002952)

Dear Ms. Roe:

On behalf of USL Pleasanton Lakes, L.P. (USL Pleasanton), Haley & Aldrich, Inc. (Haley & Aldrich) is submitting this *Summary of Environmental Status Report: AOCs 1-5, 8* & 9 (*Summary Report*) for the Former Hanson Aggregates Radum Site located at 3000 Busch Road, Pleasanton, California ("Former Aggregates Facility"). This report was prepared as requested by Alameda County Department of Environmental Health (ACDEH) to provide a comprehensive summary of the environmental conditions currently existing within the Former Aggregates Facility. USL Pleasanton is submitting this *Summary Report* to ACDEH to obtain regulatory clearance for moving forward with their envisioned mixed-use development plan, if entitled and permitted.

BACKGROUND

Environmental investigation activities were initiated at the Former Aggregates Facility starting in 2006 following the cessation and decommissioning of this facility's operations. These activities were overseen by the Alameda County Department of Environmental Health (ACDEH), the Alameda County Community Development Agency (ACCDA) and the Livermore-Pleasanton Fire Department (LPFD). The ACDEH is continuing to provide regulatory oversight for the nine Areas of Concern (AOCs) identified through the environmental investigation activities, while ACCDA is providing oversight of the reclamation activities related to the former mining operations. LPFD provided oversight of the facility closure activities, which were completed and approved of by the LPFD on 1 April 2016.

USL Pleasanton previously submitted to ACDEH *Closure Plan – APNs 946-1250-6-4 & 946-1350-3-12, Former Hanson Aggregates Radum Facility, Pleasanton, California (Closure Plan)*, dated 29 March 2017, prepared by Haley & Aldrich. This *Closure Plan*, along with its companion *Soil Management Plan*, summarizes the environmental investigation results for AOCs 6 and 7, and provides measures required to be implemented to develop these two Alameda County Assessor Parcel Numbers (APNs) so that

residential standards are achieved. The *Closure Plan* was approved by ACDEH in their letter dated 18 July 2017.

REPORT SUMMARY

USL Pleasanton, whose member purchased the subject property in September 2007, is currently seeking approval from ACDEH to move forward with the development of the Former Aggregates Facility for the seven remaining AOCs (1 through 5, 8 and 9). As USL Pleasanton's envisioned development plans contain mixed-uses, it is USL Pleasanton's goal to obtain approval from ACDEH based on residential standards. We have reached out to ACDEH and they have advised that in order to move forward with these development plans, ACDEH would need a report summarizing the findings of the previous environmental investigation activities, with these results compared against the current Environmental Screening Levels (ESLs), dated February 2016 (Revision 3), established by the San Francisco Bay Regional Water Quality Control Board (RWQCB). This evaluation will determine whether the residential standards incorporated within these ESLs are achieved or whether further measures may be required to obtain regulatory closure on one or more of the seven AOCs under discussion.

The enclosed *Summary Report* was prepared to meet ACDEH's request. This report outlines the environmental investigations previously conducted in the Former Aggregates Facility's seven AOCs under discussion, and compares the previous investigations' sampling results representing existing soil conditions against current ESLs. The specifics of these former investigations are described in reports previously submitted to ACDEH as they included the collection of hundreds of environmental samples over multiple sampling events. In general, localized impacts to soil, primarily diesel contamination, were identified and mitigated through remedial excavations, with a total of 19,140 cubic yards of impacted soil transported off-site for disposal. In addition, impacts to the shallow, perched groundwater unit were identified, delineated and determined to be localized and immobile.

CONCLUSION

The objective of the evaluation presented in the *Summary Report* is to request regulatory closure of those areas meeting residential standards, and to also identify those areas that do not currently meet residential standards and which may be addressed in the future through either mitigation measures or specific use limitations. As further described in the *Summary Report*, the evaluation resulted in the following three scenarios for each noted AOC:

- Scenario 1 – Tier 1 ESLs, which incorporate residential standards, for soil are not exceeded. Therefore, no further evaluation is warranted. AOCs 2, 4, 5, 9 meet this scenario.
- Scenario 2 – Tier 1 ESLs for soil are not exceeded in the upper 5 feet, however, Commercial/Industrial Direct Exposure Human Health ESLs for soil are exceeded 5 feet or greater below ground surface. As residential standards are met in the upper 5 feet of soil, in order to construct residential development in these areas, a Land Use Covenant (LUC) will be required to be recorded restricting any excavation greater than 5 feet deep in these specific areas. AOC 3 and some sub-areas of AOC 1 meet this scenario.

- Scenario 3 – Commercial/Industrial Direct Exposure Human Health ESLs for soil are exceeded in the upper 5 feet. Therefore, the vicinity of this exceedance will be investigated per the conditions of the Site Management Plan to be followed during the future development activities. The results of this investigation will be assessed by USL Pleasanton to determine whether to either propose use restrictions or mitigate these areas through the placement of 5 feet of fill material meeting residential standards, which would result in meeting criteria established in Scenario 2. Both options will also include the recording of a LUC and its associated restrictions. Sub-areas of AOC 1 and AOC 8 meet this scenario.

Additionally, as the evaluation of the Former Aggregates Facility's shallow, perched groundwater unit identified concentrations exceeding Tier 1 ESLs for groundwater, an overall institutional control preventing the use of this shallow groundwater is required for USL Pleasanton's development plans. USL Pleasanton will contact Zone 7 regarding this institutional control as this perched groundwater unit should not be considered a risk to the deeper aquifer Zone 7 uses as a drinking water resource.

USL Pleasanton is looking forward to working with ACDEH on the successful development of the Former Aggregates Facility. If you have any questions, please contact either of the undersigned.

Sincerely yours,
HALEY & ALDRICH, INC.



Jason Grant, P.E.
Senior Project Manager

Voytek Bajsarowicz
Senior Associate

Enclosures

c: USL Pleasanton Lakes, L.P.; Attn: Steven M. Dunn
Reis Services; Attn: Debbie Patterson

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1. Introduction

Haley & Aldrich, Inc. (Haley & Aldrich) prepared this *Summary of Environmental Status Report: AOCs 1-5, 8* & 9*, Former Hanson Aggregates Radum Facility, Pleasanton, California (Environmental Status Report)* on behalf of USL Pleasanton Lakes, L.P. (USL Pleasanton) for the Former Hanson Aggregates Radum Facility located at 3000 Busch Road, Pleasanton, California. This *Environmental Status Report* was requested by Alameda County Department of Environmental Health (ACDEH) to provide a high-level, comprehensive summary of the environmental conditions currently existing within the Former Aggregates Facility.

1.1 FORMER AGGREGATES FACILITY HISTORY

The Former Hanson Radum Aggregates Facility (Former Aggregates Facility) is comprised of a total of approximately 1,200 acres, of which 320 acres is dry land and 700 acres is lakes and ponds (Figure 1). Beginning in 1938, aggregate mining operations were initiated at this facility by Kaiser Sand and Gravel under Surface Mining Permit (SMP) 31. These mining operations included excavating areas to remove the aggregate, and then backfilling the mined areas with rubble, debris and/or mine waste, or using the mined areas as disposal ponds for water, silt and the aggregate washing operations. In 1991, Hanson Aggregates purchased the facility and continued the mining operations through 2001, at which time the aggregate resource was considered depleted.

Following the cessation of the mining operations, the Former Aggregates Facility was purchased in September 2007 by Legacy Pleasanton Land, LLC. This purchase included the entire Former Aggregates Facility, except for a 16.5-acre portion located adjacent and behind the current 7-acre Pleasanton Garbage Services transfer station. During the Fourth Quarter 2010, Legacy Pleasanton Option Land, LLC, purchased the 16.5-acre portion. In the Third Quarter 2012, USL Pleasanton foreclosed on the Former Aggregates Facility, except for the 16.5-acre portion. Subsequently, on 1 January 2013, Legacy Pleasanton Option Land, LLC contributed its 16.5-acre portion of land into a joint venture partnership with USL Pleasanton.

USL Pleasanton currently owns the approximately 320 acres of land contained within the Former Aggregates Facility. The 700 acres of lakes and ponds include Lake I and Cope Pond, which are currently owned by Alameda County Flood Control and Water Conservation District – Zone 7 (Zone 7), and Lake H, which is currently owned by Pleasanton Gravel Company (Pleasanton Gravel), but contracted to imminently transfer to Zone 7. USL Pleasanton has and retains stormwater discharge rights to Cope Pond for this land's current use and ultimate development, upon entitlement and permitting.

The table below provides a summary of the 23 Assessor Parcel Numbers (APNs) contained within the Former Aggregates Facility, along with their current owners, and identifies whether these APNs are within the boundaries of the City of Pleasanton or County of Alameda lands. Figure 2 shows the locations of the 23 APNs within the Former Aggregates Facility.

Former Aggregates Facility APNs and Current Ownership

APN	Current Owner	City or County Land
946-1128-4-4	USL Pleasanton	County of Alameda
946-1250-6-4		County of Alameda
946-1250-7-6		City of Pleasanton
946-1250-19-5		City of Pleasanton
946-1251-7-2		City of Pleasanton
946-1350-3-8		City of Pleasanton
946-1350-3-12		County of Alameda
946-1128-4-6	Zone 7	County of Alameda
946-1128-5		County of Alameda
946-1128-6-1		County of Alameda
946-1151-1-3		County of Alameda
946-1151-11-6		County of Alameda
946-1250-6-5		County of Alameda
946-1250-41		County of Alameda
946-1350-1		County of Alameda
946-1350-3-3		City of Pleasanton
946-1350-3-9		County of Alameda
946-1350-3-10		County of Alameda
946-1350-3-13		County of Alameda
904-1-2-5	Pleasanton Gravel	County of Alameda
904-1-4-2		County of Alameda
904-1-7-8		County of Alameda
904-1-7-18		County of Alameda

1.2 FORMER AGGREGATES FACILITY REGULATORY OVERSIGHT

The Former Aggregates Facility receives regulatory oversight from ACDEH, the Alameda County Community Development Agency (ACCDA), and the Livermore-Pleasanton Fire Department (LPFD).

1.2.1 Alameda County Department of Environmental Health

ACDEH is providing oversight of the environmental concerns related to potential releases to soil and groundwater that may have resulted from the former mining operations. Environmental investigation activities began in 2006, which resulted in identifying the following nine Areas of Concern (AOCs) being established in 2007:

- AOC1 – Former Asphalt Plant;
- AOC 2 – Idle Truck Maintenance Area;
- AOC 3 – Heavy Equipment Maintenance and Wash Rack Area;[1]
- AOC 4 – Former Concrete Batch Plant Area;
- AOC 5 – Former Mining Operation Area;

[1] AOC 3 was previously also associated with the potential environmental concern (PEC) identified by temporary soil boring EB-35. However, further investigation of this boring location revealed the PEC is related to a subsurface asphalt layer and not a former feature included within the heavy equipment maintenance and wash rack area.

- AOC 6 – Storm Water Retention Pond ("Busch Pit")[2];
- AOC 7 – PEC Identified by Temporary Soil Boring SS31[2];
- AOC 8 – PEC Identified by Temporary Soil Boring SS123; and
- AOC 9 – Vulcan Materials Company Storm Water Runoff Area.

The approximate locations and boundaries of these nine AOCs are shown on Figure 3, and the table below identifies the five APNs that contain these AOCs.

Former Aggregate Facility APNs and AOCs

APN	AOCs
946-1250-19-5	AOCs 1 & 2
946-1350-3-8	AOCs 2, 3, 4, 5, 8* & 9*
946-1250-7-6	AOC 3
946-1250-6-4	AOC 6[2]
946-1350-3-12	AOC 7[2]

* - AOCs 8 and 9 are not within the City of Pleasanton's Urban Growth Boundary.

ACDEH's oversight of the Former Aggregates Facility is separated into the following three regulatory cases:

- GeoTracker Case No. RO0002941, Hanson Aggregates Radum Plant (SLT19719376) – established for AOC 1;
- GeoTracker Case No. RO0002952, Hanson Aggregates Legacy Radum Facility (SL0600101555) – originally established for AOCs 2 through 9, however, was revised to remove AOCs 6 and 7; and
- GeoTracker Case No. RO0003228, USL Pleasanton Lakes (T10000009398) – established for AOCs 6 and 7.[2]

1.2.2 Alameda County Community Development Agency

ACCDA is providing oversight of the Reclamation Plan being implemented on the Former Aggregates Facility under SMP 31. Activities conducted as part of this Reclamation Plan have included the reuse of soil stockpiles generated from the previous mining operations to level the ground surface to prevent depressions where surface water could pond and to also facilitate Zone 7 approved drainage into Cope Pond. In addition, as ordered by ACCDA the previously existing storm water retention pond identified as Busch Pit was backfilled in 2013 with approximately 367,000 cubic yards (cy) of on-site soil obtained from an adjacent stockpile generated from the previous mining operations. Per the SMP 31 Reclamation Plan, the land within the Former Aggregates Facility was hydroseeded to mitigate erosion and is currently being monitored to ensure compliance with this plan.

1.2.3 Livermore-Pleasanton Fire Department

LPFD, the Certified Unified Program Agency (CUPA), with assistance from ACDEH, provided oversight of the facility closure activities conducted on the mining operation's former features that were contained

[2] Per ACDEH's 18 July 2017 letter, AOCs 6 and 7 will receive regulatory closure once the provisions of Haley & Aldrich's *Soil Management Plan – APNs 946-1250-6-4 & 946-1350-3-12, Former Hanson Aggregates Radum Site, Pleasanton, California*, dated 29 March 2017, have been implemented.

within the Former Aggregates Facility. The facility closure activities were performed in 2013 and 2014, and included the following activities:

- Abatement of hazardous building materials (i.e., asbestos-containing materials [ACM], lead-based paint [LBP], and other hazardous or potentially hazardous materials);
- Demolition and removal of the following structures: idle truck maintenance shop and associated fuel lines; heavy equipment maintenance shop; office buildings; plant lube storage shed/warehouse; electrical transformers; concrete batch plant; rock crusher; aboveground waste oil tank; concrete pads and footing; asphalt paving; underground storage tanks (USTs) and associated piping and fuel dispenser island; wash rack and associated piping; oil/water separator; septic tank and associated clay pipes and leach field; former rod mill; truck scale; and underground cistern and associated conveyor tunnel;
- Collection of soil samples to assess and characterize the existing conditions, and determine whether further excavation was warranted to mitigate impacted conditions;
- Off-site transportation and disposal of 19,190 cy of impacted soil; and,
- Backfilling most of the areas excavated during the demolition and removal activities using a mixture of soil stockpiles generated from the previous mining operations, clean excavated material and select sand from the adjacent Vulcan Materials Company Quarry.

The facility closure activities were documented in Haley & Aldrich's *Closure Report, Former Hanson Aggregates Radum Facility, 3000 Busch Road, Areas of Concern 1 through 9, Pleasanton, CA 94566*, dated 4 December 2014. This report was reviewed by both ACDEH and LPFD, and was approved by LPFD per their 1 April 2016 letter, with the facility closure activities deemed complete.

1.3 OBJECTIVE OF REPORT

The objective of this *Environmental Status Report* is to provide ACDEH a high-level, comprehensive summary of the environmental conditions currently existing within AOCs 1 through 5, 8 and 9.[3] The goal of the evaluation presented in this report is to request regulatory closure of those areas meeting residential standards, and to also identify those areas that do not currently meet residential standards and which may be addressed in the future through either mitigation measures or specific use limitations.

For the purposes of this *Environmental Status Report*, the three APNs containing the seven subject AOCs are collectively referred to as the "Site" (see Figure 2). The three APNs comprising the Site are: 946-1250-19-5 (AOCs 1 and 2); 946-1350-3-8 (AOCs 2, 3, 4, 5, 8 and 9); and 946-1250-7-6 (AOC 3) (see Figure 3). ACDEH is providing oversight of the environmental activities performed for AOC 1 under GeoTracker Case No. RO0002941, while the environmental activities being performed for AOCs 2 through 5, 8 and 9 are under GeoTracker Case No. RO0002952.

[3] Information regarding the environmental conditions currently existing within AOCs 6 and 7 is provided in Haley & Aldrich's *Closure Plan – APNs 946-1250-6-4 & 946-1350-3-12, Former Hanson Aggregates Radum Site, Pleasanton, California*, dated 29 March 2017, and the related *Soil Management Plan – APNs 946-1250-6-4 & 946-1350-3-12, Former Hanson Aggregates Radum Site, Pleasanton, California*, dated 29 March 2017, both of which have already been submitted to ACDEH. Per ACDEH's 18 July 2017 letter, AOCs 6 and 7 will receive regulatory closure once the provisions of the *Soil Management Plan* have been implemented.

Each AOC is placed into one of three scenarios following the evaluation of existing environmental conditions:

- Scenario 1 – Tier 1 Environmental Screening Levels (ESLs), which incorporate residential standards, for soil are not exceeded. Therefore, no further evaluation is warranted.
- Scenario 2 – Tier 1 ESLs for soil are not exceeded in the upper 5 feet, however, Commercial/Industrial Direct Exposure Human Health ESLs for soil are exceeded 5 feet or greater below ground surface. As residential standards are met in the upper 5 feet of soil, in order to construct residential development in these areas, a Land Use Covenant (LUC) will be required to be recorded restricting any excavation greater than 5 feet deep in these specific areas.
- Scenario 3 – Commercial/Industrial Direct Exposure Human Health ESLs for soil are exceeded in the upper 5 feet. Therefore, the vicinity of this exceedance will be investigated per the conditions of the Site Management Plan to be followed during the future development activities. The results of this investigation will be assessed by USL Pleasanton to determine whether to either propose use restrictions or mitigate these areas through the placement of 5 feet of fill material meeting residential standards, which would result in meeting criteria established in Scenario 2. Both options will also include the recording of a LUC and its associated restrictions.

2. Summary of Environmental Investigation

The Former Aggregates Facility underwent a series of environmental investigations starting in 2006. Investigation activities assessed former operational areas for potential chemical releases, and also provided a general evaluation of the soil and groundwater conditions following cessation of the mining operations. The initial investigation activities conducted and their respective findings are documented in the following reports:

- Brown and Caldwell, 2006. Summary of the Limited Subsurface Investigation Activities at the Hanson Aggregates West Radum Facility in Pleasanton, California. 2 August.
- ENV America Inc. (ENV), 2006. Draft Phase II Environmental Site Assessment, 3000 Busch Road, Pleasanton, California. November.
- LFR Inc. (LFR), 2006. Summary Report of Additional Phase II ESA Investigation at the Former Asphalt Plant Area, Hanson Radum Facility, 3000 Busch Road, Pleasanton, Alameda County, California. 5 December.
- ENV, 2007a. Additional Soil and Groundwater Investigation Report, 3000 Busch Road, Pleasanton, California. February.
- ENV, 2007b. Second Additional Soil and Groundwater Investigation Report, Hanson Radum Site, 3000 Busch Road, Pleasanton, California. April.
- ENV, 2007c. Revised Final Third Additional Soil and Groundwater Investigation Report, Hanson Radum Site, 3000 Busch Road, Pleasanton, California. June.

Following the completion of the initial investigation activities, the Former Aggregate Facilities' nine AOCs were established. The following reports document the subsequent investigation and remediation activities conducted within these AOCs.

- LFR, 2007a. Site Investigation Report for the Eastern Portion of AOC #2 and AOCs #3 through #9, ACEH Case # RO0002952 and GeoTracker Global ID #SL0600101555, Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California. 26 October.
- LFR, 2007b. Additional Site Investigation Report for the Former Hot Mix Asphalt Plant Area (AOC #1), ACEH Case # RO0002941 and GeoTracker Global ID #SLT19719376, Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California. 21 December.
- ENV, 2008a. Groundwater Monitoring Well Installation, Development, Sampling, and Soil Excavation Report, Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California. April.
- LFR, 2008a. Site Investigation and Well Installation Report for the SS-123 Area (AOC #8), ACEH Case #RO0002952 and GeoTracker Global ID #SL0600101555, Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, Alameda County, California. 20 June.
- LFR, 2008b. Combined Well Installation and Groundwater Monitoring Report for the Period of April 1 through June 30, 2008, Former Hot Mix Asphalt Plant Area (AOC #1) of the Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California, SLIC Case #RO0002941 and GeoTracker ID SLT19719376. 23 July.

- ENV, 2009. Groundwater Monitoring Well Sampling Report, Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California. April.
- LFR, 2009. Groundwater Monitoring Report, January 1 through March 31, 2009, Former Hot Mix Asphalt Plant Area (AOC #1), Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California, ACEH Case #RO0002941 and GeoTracker Global ID # SLT19719376. 11 May.
- LFR, 2010. Area of Concern #1 Additional Soil Investigation Report, ACEH Case # RO0002941 and GeoTracker Global ID #SLT19719376, Former Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California. 12 February.
- Haley & Aldrich, 2014. Closure Report Former Hanson Aggregates Radum Facility, 3000 Busch Road. Areas of Concern 2 through 9. Pleasanton, California 94566, ACEH SLIC Case Number RO0002952, RWQCB GeoTracker Global ID SL06001555. 24 October.

The subsequent sections of this *Environmental Status Report* relies upon the information presented in the listed reports. The information summarized in these sections only includes those soil samples that represent currently existing conditions, and does not include soil samples that were collected from locations that have been excavated. Further information regarding the complete sampling program conducted within each respective AOC can be reviewed in the listed reports, which can be downloaded from GeoTracker under Case Nos. RO0002941 (AOC 1) and RO0002952 (AOCs 2 through 5, 8 and 9).[4]

[4] The reports found in GeoTracker include summary tables and figures documenting the environmental sampling results, and copies of the certified analytical laboratory reports for the collected environmental samples. Analytical results obtained by Haley & Aldrich were also uploaded to GeoTracker as Electronic Data Files (EDFs).

3. AOC Existing Conditions

Presented below are summaries of the environmental conditions currently existing in AOCs 1 through 5, 8 and 9. In addition, a summary regarding groundwater sampling and monitoring results collected throughout the Former Aggregates Facility is provided. These summaries present the former mining operation features of each AOC (if any), the constituents of concern included in the investigation for each AOC and those that exceeded the then-current regulatory screening levels, and the remedial excavation performed (if any).

In addition, as the objective of this *Environmental Status Report* is to assess the conditions currently existing within each AOC, the previous analytical results obtained that represent existing conditions are further compared against the current Tier 1 Environmental Screening Levels (ESLs)[5] established by the San Francisco Bay Regional Water Quality Control Board (RWQCB). For three metal constituents, arsenic, chromium and nickel, the current Tier 1 ESL is not an appropriate screening level. Rather, the following screening levels were relied upon for evaluating the detected concentrations.

- Arsenic: The current Tier 1 ESL for arsenic is 0.067 milligrams per kilogram (mg/kg), however, this concentration is less than natural background arsenic concentrations for soils in the San Francisco Bay Area. Therefore, for this evaluation the detected concentrations were compared against the upper estimate for background arsenic concentrations that has been accepted by the RWQCB per "Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region," by Dylan Jacques Duverge, dated December 2011. Per this study, the background arsenic concentration for San Francisco Bay Area soils is 11 mg/kg.
- Chromium: There is no current Tier 1 ESL established for total chromium. Rather, there are Tier 1 ESLs established for chromium III (120,000 mg/kg) and for chromium VI (0.30 mg/kg).[6] As there is no expectation of chromium VI being present on the Site as it was not used by the previous mining operations, and chromium VI was not detected in the select samples that underwent this analysis, the total chromium concentrations were compared against the current chromium III Tier 1 ESL.
- Nickel: The current Tier 1 ESL for nickel, 86 mg/kg, is based on direct exposure human health for construction workers, which is not a long-term exposure risk for the Site. Rather, the long-term exposure risk for the Site is residential land use. The current ESL for direct exposure human health for residential, shallow soil is 820 mg/kg, which is the screening level the detected concentrations were compared against for evaluating the Site's soil conditions.

The development plan currently envisioned by USL Pleasanton for the APNs encompassing AOCs 1 through 5, 8 and 9,[7] if entitled and permitted, includes both residential and commercial/industrial land uses. Therefore, if a current Tier 1 ESL for soil is exceeded in samples collected from these AOCs, the detected concentration is further compared against the current ESL established for the depth of the exceedance, either residential direct exposure for shallow soils or commercial/industrial direct exposure ("Tier 2 ESL").

[5] February 2016 (Revision 3)
[6] Chromium III is also known as trivalent chromium, and chromium VI is also known as hexavalent chromium.
[7] No construction activities are envisioned for the land surrounding AOCs 8 and 9.

3.1 AOC 1 – FORMER ASPHALT PLANT

3.1.1 AOC 1 Former Features

AOC 1 is situated in the vicinity of the Former Asphalt Plant that was part of the Former Aggregates Facility's operations. This plant included the following features that were evaluated, demolished and removed:

- Storage shed;
- The former conveyor culvert;
- Two plastic containers and one tote located east of AOC 1;
- Containment structure;
- Truck scale;
- Concrete footings;
- Soil stockpile located in southern portion of AOC 1;
- Concrete foundation of former dust collector;
- Former railroad; and
- Three underground cisterns and conveyor tunnel.

Figure 4 shows the locations of AOC 1 and its associated former features.

3.1.2 AOC 1 Investigation Activities

Environmental investigation activities conducted in AOC 1 included the collection of soil samples, which underwent analysis for the following:

- Total petroleum hydrocarbons as diesel (TPHd);
- Total petroleum hydrocarbons as motor oil (TPHmo);
- Total petroleum hydrocarbons as gasoline (TPHg);
- Polycyclic aromatic hydrocarbons (PAHs);
- Polychlorinated biphenyls (PCBs); and
- Lead.

3.1.3 AOC 1 Remediation Activities

The results of AOC 1's investigation identified soil impacted with TPH, PAHs and PCBs at concentrations exceeding the then-current regulatory screening levels. Given these exceedances, 15 remedial excavations were performed. The following summarizes the status of the AOC 1 remedial excavations.

- Excavation 1: soil impacted with TPHd and TPHmo; remediation complete based on comparison against then-current regulatory screening levels; excavation not backfilled.
- Excavation 2: soil impacted with TPHd and TPHmo; remediation complete based on comparison against then-current regulatory screening levels; excavation not backfilled.
- Excavation 3/4: soil impacted with TPHd and TPHmo; remediation complete in all sidewalls above 10 feet below ground surface (bgs) based on comparison against then-current regulatory screening levels, however incomplete in one sidewall at 10 feet bgs and in two bottom samples at 14 feet bgs; excavation not backfilled.

- Excavation 5: soil impacted with TPHd and TPHmo; remediation incomplete based on comparison against then-current regulatory screening levels; excavation not backfilled.
- Excavation 6: soil impacted with TPHd and TPHmo; remediation incomplete based on comparison against then-current regulatory screening levels; excavation not backfilled.
- Excavation 7: soil impacted with TPHd and TPHmo; remediation incomplete based on comparison against then-current regulatory screening levels; excavation not backfilled.
- Excavation 8: soil impacted with TPHd and TPHmo; remediation complete based on comparison against then-current regulatory screening levels; excavation backfilled.
- Excavation 9: soil impacted with TPHd and TPHmo; remediation complete based on comparison against then-current regulatory screening levels; excavation not backfilled.
- Excavation 10/11: soil impacted with TPHd and TPHmo; remediation incomplete based on comparison against then-current regulatory screening levels; excavation not backfilled.
- Railroad: soil impacted with TPHd, TPHmo, PAHs, and PCBs; remediation incomplete based on comparison against then-current regulatory screening levels; excavation not backfilled.
- Concrete footing 1: soil impacted with TPHd and TPHmo; remediation complete based on comparison against then-current regulatory screening levels; excavation not backfilled.
- Concrete footing 2: soil impacted with TPHd and TPHmo; remediation complete based on comparison against then-current regulatory screening levels; excavation backfilled.
- Concrete footing 5: soil impacted with TPHd and TPHmo; remediation incomplete based on comparison against then-current regulatory screening levels; excavation not backfilled.
- Truck Scale: soil impacted with TPHd and TPHmo; remediation complete based on comparison against then-current regulatory screening levels; excavation not backfilled.
- Containment structure: soil impacted with TPHd and TPHmo; remediation complete based on comparison against then-current regulatory screening levels; excavation not backfilled.

Figure 5 shows the location of AOC 1's remedial excavations.

3.1.4 AOC 1 Currently Existing Conditions

Tables 1 through 9 summarize the analytical results of the soil samples collected by Haley & Aldrich that represents AOC 1's currently existing conditions. Laboratory analytical reports for soil samples collected in AOC 1 by Haley & Aldrich are included in Appendix A. Additional historical soil sample data for AOC 1 is included in Appendix B. These results are compared against current Tier 1 ESLs, and if any exceedances were noted, are compared against current Tier 2 ESLs established for residential and commercial/industrial direct exposure scenarios. The results of this evaluation indicate that portions of AOC 1 meet the criteria to receive regulatory closure for use as either residential or commercial/industrial development, however some portions of AOC 1 do not currently meet the standards necessary to receive regulatory closure. Laboratory analysis of all post-remedial excavation soil samples indicate that chemicals of concern in AOC 1 are below current Tier 1 ESLs for the following remedial excavations:

- Excavation 1: remediation complete based on comparison against current Tier 1 ESLs; excavation not backfilled.

- Excavation 2: remediation complete based on comparison against current Tier 1 ESLs; excavation not backfilled.
- Excavation 6: remediation complete based on comparison against current Tier 1 ESLs; excavation not backfilled. Laboratory analysis of soil collected from the sidewalls and bottom of this excavation indicated that chemicals of concern were below current Tier 1 ESLs with the following exceptions:
  - No semi-volatile organic compounds (SVOCs) were detected in any of the soil samples collected from Excavation 6, however the laboratory detection limits for multiple SVOCs were above the current Tier 1 ESL levels for four soil samples collected in the sidewalls. Because there were no SVOC detections throughout this portion of the Site, it is reasonable to believe that SVOCs were not present in these soil samples above current Tier 1 ESLs.
  - Thallium was not detected in any soil sample collected in AOC 1, however the laboratory detection limit was above the current Tier 1 ESL level in five sidewall samples. The Site has no history of thallium use, and thallium has not been detected elsewhere on the Site.
- Excavation 7: remediation complete based on comparison against current Tier 1 ESLs; excavation not backfilled.
- Excavation 8: remediation complete based on comparison against current Tier 1 ESLs; excavation not backfilled.
- Excavation 9: remediation complete based on comparison against current Tier 1 ESLs; excavation not backfilled.
- Concrete Footing 1: remediation complete based on comparison against current Tier 1 ESLs; excavation not backfilled.
- Concrete Footing 2: remediation complete based on comparison against current Tier 1 ESLs; excavation not backfilled.
- Truck Scale: remediation complete based on comparison against current Tier 1 ESLs; excavation not backfilled.
- Conveyor Culvert: remediation complete based on comparison against current Tier 1 ESLs; excavation backfilled.

The following excavations/areas contain chemicals of concern in soil above current Tier 1 ESLs at depths of greater than 5 feet bgs (Scenario 2):

- Excavation 3/4: Remediation is complete based on comparison against current Tier 1 ESLs in all sidewalls above 10 feet bgs; one sidewall sample at 10 feet bgs and two bottom samples at 14 feet bgs contained TPHd in concentrations above current Tier 1 ESL; excavation not backfilled. Direct exposure ESLs for residential and commercial/industrial are for shallow soils less than 10 feet bgs. One sample at 10 feet bgs was above the current ESL for construction workers (for any depth of soil). Institutional and/or engineering controls are recommended for this area to prevent direct exposure to future receptors.
- AOC 1 contains an area of deep soil (approximately 30 to 40 feet bgs) impacted with TPH and PAHs. According to the results of previous soil and groundwater investigations, this deep soil

impact is relatively old, of limited extent, and immobile; it was likely buried in place during historical mining operations. It is unlikely to significantly affect groundwater conditions at the site.

- B-1 through B-4: TPHd and PAHs were detected in soil above current Tier 1 ESLs in deep soil between 7.5 and 15 feet bgs in the area of these borings, east of Excavation 10/11.
- EB-20: Arsenic and cobalt exceeded current Tier 1 ESLs at a depth of 6 feet bgs. The elevated levels of metals in this sample appears isolated as the 2-foot sample and surrounding boring results were below current ESLs.

The following excavations have soil within the top 5 feet bgs exceeding current commercial/industrial direct exposure ESLs (Scenario 3). Therefore, the vicinity of these exceedances will be investigated per the conditions of the Site Management Plan to be followed during the future development activities. The results of this investigation will be assessed to determine whether to either propose use restrictions or mitigate these areas through the placement of 5 feet of fill material meeting residential standards, which would result in meeting criteria established in Scenario 2.

- Excavation 5: remediation not complete based on comparison against current Tier 1 ESLs; excavation not backfilled. TPHd and TPHmo is present in one sidewall sample at 5 feet bgs in concentrations above both current residential and commercial/industrial ESLs.
- Excavation 10/11: remediation not complete based on comparison against current Tier 1 ESLs; excavation not backfilled. TPHd is present in sidewall and bottom samples ranging from 4 to 18 feet bgs above both current residential and commercial/industrial ESLs.
- Rail Line Excavation: remediation not complete based on comparison against current Tier 1 ESLs; excavation not backfilled. TPHd and PAHs are present in shallow soil along the bottom of the excavation from 2 to 5 feet bgs in concentrations that exceed both current residential and commercial/industrial ESLs.
- Concrete Footing 5 Excavation: remediation not complete based on comparison against current Tier 1 ESLs; excavation not backfilled. TPHd is present in shallow soil along the sidewall of the excavation at 4.5 feet bgs in concentrations that exceed both current residential and commercial/industrial ESLs.

Figure 6 shows the Scenarios 2 and 3 locations within AOC 1.

3.2 AOC 2 – IDLE TRUCK MAINTENANCE AREA

3.2.1 AOC 2 Former Features

AOC 2 is situated in the vicinity of the Former Aggregates Facility's Idle Truck Maintenance Area, which included the following features that were evaluated, demolished and removed:

- The idle truck maintenance shop;
- The oil/water separator;
- Clay piping;
- Septic tank;
- Leach field;
- Former wash rack; and

- Fuel line.

Figure 7 shows the locations of AOC 2 and its associated former features.

3.2.2 AOC 2 Investigation Activities

Environmental investigation activities conducted in AOC 2 included the collection of soil samples, which underwent analysis for the following:

- TPHd;
- TPHmo;
- TPHg;
- Stoddard solvent;
- Naphthalene;
- Benzene, toluene, ethylbenzene and xylenes (BTEX); and
- PCBs.

3.2.3 AOC 2 Remediation Activities

The results of AOC 2's investigation identified soil impacted with TPHd, TPHmo, TPHg, naphthalene, and BTEX at concentrations exceeding the then-current regulatory screening levels. Given these exceedances, six remedial excavations were performed. The following summarizes the status of the AOC 2 remedial excavations:

- Oil/water separator: soil impacted with TPHd and TPHmo; remediation complete based on comparison against then-current regulatory screening levels; excavation backfilled.
- Clay piping trench: soil impacted with TPHd and TPHmo; remediation complete based on comparison against then-current regulatory screening levels; excavation backfilled.
- Septic tank excavation: soil impacted with TPHd and TPHmo; remediation complete based on comparison against then-current regulatory screening levels; excavation backfilled.
- Leach field: soil impacted with TPHd and TPHmo; remediation complete based on comparison against then-current regulatory screening levels; excavation backfilled.
- AOC 2 wash rack: soil impacted with TPHd and TPHmo; remediation complete based on comparison against then-current regulatory screening levels; excavation backfilled.
- Fuel line excavation: soil impacted with TPHd, TPHmo, TPHg, naphthalene, and BTEX; remediation complete based on comparison against then-current regulatory screening levels; excavation backfilled.

Figures 7 and 8 show the locations of AOC 2's remedial excavations.

3.2.4 AOC 2 Currently Existing Conditions

Tables 10 through 15 summarize the analytical results of the soil samples collected by Haley & Aldrich that represents AOC 2's currently existing conditions. Additional historical soil sample data for AOC 2 are included in Appendix B. These results are compared against current Tier 1 ESLs, with this evaluation indicating no exceedances of current Tier 1 ESLs. Therefore, the current soil conditions in AOC 2 meet

the criteria to receive regulatory closure for use as either residential or commercial/industrial development (Scenario 1).

3.3 AOC 3 – HEAVY EQUIPMENT MAINTENANCE AND WASH RACK AREA

3.3.1 AOC 3 Former Features

AOC 3 is situated in the vicinity of the Former Aggregates Facility's Heavy Equipment Maintenance and Wash Rack Area, which included the following features that were evaluated, demolished and removed:

- Heavy equipment maintenance shop;
- Two sheds associated with the heavy equipment maintenance shop;
- Office building;
- Lube shed;
- Wash rack system;
- Lube shed piping;
- Aboveground waste oil and antifreeze tanks;
- Transite pipe; and
- USTs.

Figures 9 through 11 show the location of AOC 3 and its associated former features.

3.3.2 AOC 3 Investigation Activities

Environmental investigation activities conducted in AOC 3 included the collection of soil samples, which underwent analysis for the following:

- TPHd;
- TPHmo;
- TPHg;
- Stoddard solvent;
- Volatile organic compounds (VOCs);
- PCBs; and
- Asbestos.

3.3.3 AOC 3 Remediation Activities

The results of AOC 3's investigation identified soil impacted with TPH, Stoddard solvent, VOCs, PCBs and asbestos at concentrations exceeding the then-current regulatory screening levels. Given these exceedances, five remedial excavations were performed. The following summarizes the status of the AOC 3 remedial excavations.

- Excavation 3-EX2: soil impacted with TPHd, TPHmo, and Stoddard solvent; remediation complete based on comparison against then-current regulatory screening levels; excavation backfilled.
- Excavation 3-TR2: soil impacted with TPHd, TPHmo, and Stoddard solvent; remediation complete based on comparison against then-current regulatory screening levels; excavation backfilled;

- Excavation 3-WR: soil impacted with TPHd, TPHmo and PCBs; remediation complete based on comparison against then-current regulatory screening levels; excavation backfilled.
- Excavation 3-UST: soil impacted with TPHd, TPHmo, TPHg, and VOCs; remediation complete based on comparison against then-current regulatory screening levels; excavation backfilled.
- Transite pipe trench: soil impacted with TPHd, TPHmo and asbestos; remediation complete based on comparison against then-current regulatory screening levels; excavation backfilled.

Figure 12 shows the location of AOC 3's remedial excavations.

3.3.4 AOC 3 Currently Existing Conditions

Tables 16 through 24 summarize the analytical results of the soil samples collected by Haley & Aldrich that represents AOC 3's currently existing conditions. Additional historical soil sample data for AOC 3 are included in Appendix B. These results are compared against current Tier 1 ESLs, and if any exceedances were noted, are compared against current Tier 2 ESLs established for residential and commercial/industrial direct exposure scenarios. Laboratory analysis of all post-remedial excavation soil samples indicate that chemicals of concern in AOC 3 are below current Tier 1 ESLs with the following exception, classifying AOC 3 as Scenario 2:

1. TPHd was detected above current Tier 1 ESLs in two soil samples collected at the bottom of the UST excavation at approximately 8 feet bgs. The affected area may be confined to approximately 400 square feet. Direct human exposure to the soil in this area is unlikely due to the relative depth of the impacted area. As residential standards are met in the upper 5 feet of soil, in order to construct residential development in these areas, a LUC will be required to be recorded restricting any excavation greater than 5 feet deep in these specific areas.

Figure 13 shows the Scenario 2 location within AOC 3.

3.4 AOC 4 – FORMER CONCRETE BATCH PLANT

AOC 4 is situated in the vicinity of the Former Concrete Batch Plant that was part of the Former Aggregates Facility's operations. This plant included the following features that were evaluated, demolished and removed:

- Former Concrete Batch Plant Area; and
- Former Transformer Area.

Figure 14 shows the locations of AOC 4 and its associated former features.

3.4.1 AOC 4 Investigation Activities

Environmental investigation activities conducted in AOC 4 included the collection of soil samples, which underwent analysis for the following:

- SVOCs;
- VOCs; and
- Metals.

3.4.2 AOC 4 Remediation Activities

The results of AOC 4's investigation did not identify soil impacts at concentrations exceeding the then-current regulatory screening levels. Therefore, no remedial soil excavations were performed.

3.4.3 AOC 4 Currently Existing Conditions

Tables 25 and 26 summarize the analytical results of the soil samples collected by Haley & Aldrich that represents AOC 4's currently existing conditions. Additional historical soil sample data for AOC 4 are included in Appendix B. These results are compared against current Tier 1 ESLs, with this evaluation indicating no exceedances of current Tier 1 ESLs. Therefore, the current soil conditions in AOC 4 meet the criteria to receive regulatory closure for use as either residential or commercial/industrial development (Scenario 1).

3.5 AOC 5 – FORMER MINING OPERATION AREA

AOC 5 is situated in the vicinity of a former mining operation area that was part of the Former Aggregates Facility. This area included the following features that were evaluated, demolished and removed:

- Former transformer;
- Former aboveground waste oil tank and plant lube shed;
- Former rod mill; and
- Former rock crusher.

Figure 15 shows the locations of AOC 5 and its associated former features.

3.5.1 AOC 5 Investigation Activities

Environmental investigation activities conducted in AOC 5 included the collection of soil samples, which underwent analysis for the following:

- TPHd;
- TPHmo;
- TPHg;
- Stoddard solvent;
- VOCs; and
- PCBs.

3.5.2 AOC 5 Remediation Activities

The results of AOC 5's investigation identified soil impacted with TPH, Stoddard solvent, VOCs and PCBs at concentrations exceeding the then-current regulatory screening levels. Given these exceedances, four remedial excavations were performed. The following summarizes the status of the AOC 5 remedial excavations.

- Excavation FHARF-6: soil impacted with TPHd, TPHmo, and PCBs; remediation complete based on comparison against then-current regulatory screening levels; excavation backfilled.
- Excavation FHARF-7/8: soil impacted with TPHd, TPHmo, Stoddard solvent, VOCs; remediation complete based on comparison against then-current regulatory screening levels; excavation backfilled.
- Excavation FHARF-9: soil impacted with TPHd and TPHmo; remediation complete based on comparison against then-current regulatory screening levels; excavation backfilled.
- Excavation FHARF-12: soil impacted with TPHd and TPHmo; remediation complete based on comparison against then-current regulatory screening levels; excavation backfilled.

Figure 15 shows the location of AOC 5's remedial excavations.

3.5.3 AOC 5 Currently Existing Conditions

Tables 27 through 30 summarize the analytical results of the soil samples collected by Haley & Aldrich that represents AOC 5's currently existing conditions. Additional historical soil sample data for AOC 5 are included in Appendix B. These results are compared against current Tier 1 ESLs, with this evaluation indicating no exceedances of current Tier 1 ESLs. Therefore, the current soil conditions in AOC 5 meet the criteria to receive regulatory closure for use as either residential or commercial/industrial development (Scenario 1).

3.6 AOC 8 – PEC IDENTIFIED BY TEMPORARY SOIL BORING SS123

AOC 8 was established based on the results of a due diligence investigation boring that was advanced in the eastern portion of the Former Aggregates Facility's operations. The sampling results obtained from this boring identified the subsurface soil impacted with TPH.

Figure 16 shows the locations of AOC 8 and the initial soil boring SS123.

3.6.1 AOC 8 Investigation Activities

Environmental investigation activities conducted in AOC 8 included the collection of soil samples, which underwent analysis for the following:

- TPHd;
- TPHmo;
- TPHg;
- PAHs;
- BTEX;
- Metals; and
- PCBs.

Groundwater samples were also collected in AOC 8, which underwent analysis for the following:

- TPHd;
- TPHmo; and
- BTEX.

3.6.2 AOC 8 Remediation Activities

The results of AOC 8's investigation activities indicated that the subsurface TPH impact was limited in extent and bounded, and was concluded that the TPH impact is due to the presence of asphalt material. Therefore, no further investigation activities for this AOC was required and no remediation activities were performed.

3.6.3 AOC 8 Currently Existing Conditions

Historical soil sample data for AOC 8 are included in Appendix B summarizing the analytical results of the samples that represent AOC 8's currently existing conditions. These results are compared against current Tier 1 ESLs, and if any exceedances were noted, are compared against current Tier 2 ESLs established for residential and commercial/industrial direct exposure scenarios. Laboratory analysis of all soil samples indicate that all chemicals of concern in AOC 8 are below current Tier 1 ESLs with the following exceptions:

1. TPHd was detected in soil samples above the current Tier 1 ESL at various depths ranging from 2 to 40 feet bgs. TPHd detections are above the current commercial/industrial ESL of 1,100 mg/kg. The source of TPHd contamination is related to asphalt material placed in the former mining pits. This material is relatively immobile, has limited solubility, and represents a relatively minor threat to groundwater (LFR, 2008a).

AOC 8 contains soil within the top 5 feet bgs exceeding current commercial/industrial direct exposure ESLs (Scenario 3). Therefore, the vicinity of these exceedances will be investigated per the conditions of the Site Management Plan to be followed during the future development activities. The results of this investigation will be assessed to determine whether to either propose use restrictions or mitigate these areas through the placement of 5 feet of fill material meeting residential standards, which would result in meeting criteria established in Scenario 2.

Figure 17 shows the Scenario 3 location within AOC 8.

3.7 AOC 9 – VULCAN MATERIALS COMPANY STORM WATER RUNOFF AREA

AOC 9 was the location where storm water runoff was discharged from the Vulcan Materials Company within the Former Aggregates Facility.

Figure 16 shows the location of AOC 9.

3.7.1 AOC 9 Investigation Activities

Environmental investigation activities conducted in AOC 9 included the collection of soil samples, which underwent analysis for the following:

- TPHd;
- TPHmo;
- TPHg;
- BTEX; and

- Metals.

3.7.2 AOC 9 Remediation Activities

The results of the AOC 9 investigation identified one soil sample impacted with TPHd and TPHmo at concentrations exceeding the then-current regulatory screening levels. No remediation activities were conducted at AOC 9.

3.7.3 AOC 9 Currently Existing Conditions

Since no remediation activities have been conducted at AOC 9, analytical results from previous investigations are representative of currently existing conditions. These results are included in Appendix B and are compared against current Tier 1 ESLs, with this evaluation indicating no exceedances of current Tier 1 ESLs. Therefore, the current soil conditions in AOC 9 meet the criteria to receive regulatory closure for use as either residential or commercial/industrial development (Scenario 1).

3.8 GROUNDWATER SUMMARY

Environmental investigations conducted at the Site have included the collection of grab groundwater samples from soil borings and the installation and sampling of groundwater monitoring wells. Well construction data is summarized in Table 31. A summary of the analytical laboratory results for groundwater samples collected from the Site during past investigations are compiled in Tables 32 through 34. Locations of wells and soil boring/groundwater sampling points are shown on Figure 18. In addition, an on-site production well was sampled in 2016. A summary of the analytical laboratory results is shown in Table 35, and the analytical laboratory report is included in Appendix C.

The following sections summarize existing groundwater analytical results by AOC.

3.8.1 AOC 1

Monitoring wells MW-1 through MW-3, and MW-6 through MW-10, are located in AOC 1, and are screened at depths ranging from 42 to 74 feet bgs. These monitoring wells were sampled on five occasions from 2007 through 2009. In addition, several grab groundwater samples were collected from boring locations advanced within AOC 1. As shown in the summary tables, no Tier 1 ESLs for groundwater were exceeded in the samples collected from the monitoring wells, except for one sample collected from MW-2 where the current Tier 1 ESL for one SVOC (Bis[2-ethylhexyl]phthalate) was exceeded and one sample from MW-9 where the current Tier 1 ESL for copper was exceeded. The Bis[2-ethylhexyl]phthalate detection, however, appears to be anomalous and may be due to laboratory contamination. The duplicate sample collected from MW-2 during the same event and the results of future samples collected from MW-2 were non detect for this constituent. For copper, the Tier 1 ESL is based on saltwater ecotoxicity, which is not an exposure concern for the Former Aggregates Facility. Therefore, further comparison of the detected copper concentration of 5 micrograms per liter (µg/L) against its California Maximum Contaminant Level (MCL), 1,000 µg/L, indicates this detection would not be of concern.

For the collected grab groundwater samples, only two exceeded current Tier 1 ESLs. The sample collected from EB-29 and B-29 contained TPHd at concentrations of 150 µg/L and 350 µg/L, respectively, which are greater than the current ESL of 100 µg/L. In addition, the chromium concentration detected in

the sample collected from EB-29, 990 µg/L, is greater than the current ESL of 50 µg/L. The current Tier 1 ESL exceedances are based on evaluating drinking water risk, which is not a current exposure concern for the Site's shallow groundwater unit. Therefore, a Tier 2 ESL evaluation was conducted. The current gross contamination ESLs were selected for comparison, which are 2,500 µg/L for TPHd and 50,000 µg/L for chromium, neither of which are exceeded. In addition, grab groundwater sampling results are often biased high due to the presence of suspended solids in the samples. As the groundwater samples collected from the monitoring wells did not report exceedances of these Tier 1 ESLs, it is likely that the grab groundwater sample exceedances do not appropriately represent dissolved groundwater concentrations.

3.8.2 AOC 2

Monitoring wells MW-4 and MW-KP1 are located in AOC 2, and are screening at depths ranging from 20 to 48 feet bgs. Well MW-KP1 was sampled 11 times between 1991 and 1996, while MW-4 was encountered to be dry during each of its attempted sampling events. In addition, grab groundwater samples were collected from borings located within and surrounding AOC 2. As shown in the summary tables, the only current Tier 1 ESL exceeded in the samples collected from MW-KP1 was TPHd; however, TPHd was not detected in the last three sampling events conducted in 1994, 1995 and 1996. The other constituents analyzed for in the groundwater samples collected from MW-KP1 were all non detect, and MW-KP1 was properly destroyed under permit from Zone 7 in 1998.

None of the grab groundwater samples collected from within AOC 2 contained concentrations exceeding current Tier 1 ESLs.

In addition to collecting samples from the shallow groundwater unit, in March 2016 a groundwater sample was collected from a production well that is screened across the deeper groundwater unit underlying the Site that could potentially be utilized as a drinking water resource. This well, W-1,[8] is located within AOC 2 and is screened starting at 195 feet bgs, with a static groundwater elevation measured to rise to approximately 100 feet bgs. No current Tier 1 ESLs were exceeded in the groundwater sample collected from W-1, except for an anomalous detection of boron. Given these results, the limited shallow groundwater impacts identified in the monitoring well samples have not migrated down and impacted the deeper groundwater unit underlying the Site. Based on the well construction log generated during the installation of W-1, a 19-foot-thick layer of clay (present from 55 to 74 feet bgs) may represent an aquitard separating the discontinuous upper groundwater unit in which the monitoring wells were screened and the grab groundwater samples were collected from the underlying deeper groundwater unit that represents a potential drinking water resource.

3.8.3 AOC 3

Grab groundwater samples were collected within AOC 3 from two boring locations, EB-31(B) and B-1. In addition, monitoring well ENV-1 was installed in AOC 3 in 2008 in order to further investigate possible groundwater impacts in the area. ENV-1 was sampled on three occasions between 2008 and 2009, and no current Tier 1 ESLs were exceeded. In addition, no current Tier 1 ESLs were exceeded in the grab groundwater samples collected from borings EB-21(B) and B-1.

[8] Well is identified by Zone 7 as Number 3S/1E 15F3.

Other boring locations in the vicinity of AOC 3 from which grab groundwater samples were collected include:

- EB-35, located northeast of AOC 3;
- SS-78, located north of AOC 3; and
- SS-105, located east of AOC 3.

No current Tier 1 ESLs were exceeded in any of the grab groundwater samples collected from the above boring locations.

3.8.4 AOC 4/5

Two grab groundwater samples were collected from the vicinity of AOCs 4 and 5, with one sample collected from boring location SS-128, and the second sample collected from boring location SS-130. No current Tier 1 ESLs were exceeded in either of these samples.

3.8.5 AOC 8

Grab groundwater samples were collected from soil borings advanced for the environmental investigation activities that established AOC 8. This groundwater sampling focused on the area of boring location SS-123, and resulted in the installation of four groundwater monitoring wells, also identified as MW-1 through MW-4. The groundwater sampling results indicated concentrations of TPHd in the initial grab groundwater sample collected from SS-123 exceeding the current Tier 1 ESL. However, groundwater sampling conducted on the wells between 2008 to 2009 indicated concentrations below current Tier 1 ESLs, except for one detection of TPHd which was attributed to laboratory contamination following a resampling that reported non detectable results. Therefore, results from the routine groundwater monitoring indicate that the TPHd concentration in grab groundwater samples were localized and the groundwater downgradient of SS-123 was not affected. Groundwater monitoring was discontinued, as approved in a 6 August 2009 letter by ACDEH.

3.8.6 Analysis of Groundwater Data

The data discussed above indicate that the current Tier 1 ESL for TPHd in groundwater has been exceeded in some limited and localized areas of the Site. The ESL exceedances are primarily in the grab groundwater samples collected from borings, and not from the routine sampling of groundwater monitoring wells. As expected given the relative limited mobility of heavy-end hydrocarbons such as TPHd, the limited and localized nature of this impact is demonstrated by lack of vertical and lateral downgradient impacts. In addition, as results obtained from grab groundwater samples are typically biased high when compared to samples collected from monitoring wells, results obtained from monitoring wells are considered to more accurately represent dissolved groundwater concentrations. As the most recent groundwater samples collected from the monitoring wells indicated non detect TPHd concentrations, it therefore appears the results obtained from the grab groundwater samples collected from borings may not appropriately represent the actual groundwater conditions. Further, groundwater sampling results from the deeper groundwater unit in which an on-site production well is screened indicated no exceedances of current Tier 1 ESLs. Given this limited groundwater impact, USL Pleasanton's development plans, if entitled and permitted, will include establishing an institutional control for the entire Former Aggregates Facility restricting the use of this shallow groundwater.

No additional activities to characterize the nature and extent of impacts to groundwater within the Former Aggregates Facility are recommended. Groundwater monitoring wells still present on the Former Aggregates Facility will be destroyed under permit from Zone 7.

3.9 SUMMARY OF EXISTING CONDITIONS

Haley & Aldrich completed a thorough review of historical soil and groundwater investigations performed on the Site, in conjunction with the additional investigations and remedial activities Haley & Aldrich oversaw between 2012 and 2014. The existing conditions of the site were compared to current Tier 1 ESLs, California background screening levels, and Tier 2 ESLs for human health risk from direct exposure to soils.

The objective of the evaluation presented in this *Summary Report* is to request regulatory closure of those areas meeting residential standards, and to also identify those areas that do not currently meet residential standards and which may be addressed in the future through either mitigation measures or specific use limitations. This evaluation resulted in the following three scenarios for each noted AOC:

- Scenario 1 – Tier 1 ESLs, which incorporate residential standards, for soil are not exceeded. Therefore, no further evaluation is warranted. AOCs 2, 4, 5, 9 meet this scenario.
- Scenario 2 – Tier 1 ESLs for soil are not exceeded in the upper 5 feet, however, Commercial/Industrial Direct Exposure Human Health ESLs for soil are exceeded 5 feet or greater bgs. As residential standards are met in the upper 5 feet of soil, in order to construct residential development in these areas, a LUC will be required to be recorded restricting any excavation greater than 5 feet deep in these specific areas. Sub-areas of AOC 1 and AOC 3 meet this scenario (see Figures 6 and 13, respectively).
- Scenario 3 – Commercial/Industrial Direct Exposure Human Health ESLs for soil are exceeded in the upper 5 feet. Therefore, the vicinity of this exceedance will be investigated per the conditions of the Site Management Plan to be followed during the future development activities. The results of this investigation will be assessed by USL Pleasanton to determine whether to either propose use restrictions or mitigate these areas through the placement of 5 feet of fill material meeting residential standards, which would result in meeting criteria established in Scenario 2. Both options will also include the recording of a LUC and its associated restrictions. Sub-areas of AOC 1 and AOC 8 meet this scenario (see Figures 6 and 17, respectively).

Additionally, as the evaluation of the Former Aggregates Facility's shallow, perched groundwater unit identified localized concentrations exceeding Tier 1 ESLs for groundwater, an overall institutional control preventing the use of this shallow groundwater is required for USL Pleasanton's development plans. USL Pleasanton will contact Zone 7 regarding this institutional control as this perched groundwater unit should not be considered a risk to the deeper aquifer Zone 7 uses as a drinking water resource.

4. Future Proposed Development

If entitled and permitted, USL Pleasanton is proposing the development of the entire former aggregate mining operations facility, which will likely include: residential and commercial development; roadway improvements; a new school; and parks and open space, including sports fields, hiking and biking trails, and recreational and educational access to the ponds. If entitled and permitted, the potential development of the former mining facility is anticipated to extend from 2020 through 2030+. As USL Pleasanton's envisioned development plans contain mixed-uses, it is USL Pleasanton's goal to obtain approval from ACDEH based on residential standards.

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TABLES

TABLE 1
AOC 1- SUMMARY OF EXCAVATIONS 1 THROUGH 4
CONFIRMATION SAMPLING ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Semi-Volatile Organic Compounds (SIM) (mg/Kg)	Total Petroleum Hydrocarbons (mg/Kg)	
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Naphthalene**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**
EX1 Excavation	**EX1-B1(6.0)**	08/08/2013	Bottom	6	-	< 0.99	< 49
	EX1-S1(3.0)	08/08/2013	Sidewall	3	-	3	< 50
	EX1-S2(3.0)	08/08/2013	Sidewall	3	< 0.01	25	91
	EX1-S3(3.0)	08/08/2013	Sidewall	3	-	1.3	< 49
	EX1-S4(3.0)	08/08/2013	Sidewall	3	< 0.005	16	64
EX2 Excavation	**EX2-B1(6.0)**	08/08/2013	Bottom	6	-	< 0.99	< 50
	EX2-S1(3.5)	08/08/2013	Sidewall	3.5	-	1.1	< 50
	EX2-S2(3.5)	08/08/2013	Sidewall	3.5	0.01	1.8	< 49
	EX2-S3(3.0)	08/08/2013	Sidewall	3	-	38	110
	EX2-S4(3.0)	08/08/2013	Sidewall	3	< 0.025	61	220
EX3 Excavation	**EX3-B1(8.0)**	08/08/2013	Bottom	8	-	< 0.98	< 49
	EX3-S2(4.5)	08/08/2013	Sidewall	4.5	-	23	60
	EX3-S3(4.5)	08/08/2013	Sidewall	4.5	-	3.2	< 50
	EX3-S4(3.5)	08/08/2013	Sidewall	3.5	0.011	1.2	< 50
	EX3-S5(4.0)	09/13/2013	Sidewall	4	-	< 0.99	< 50
EX4 Excavation	**EX4-B1(6.0)**	08/12/2013	Bottom	6	-	1.1	< 50
	EX4-B2(6.0)	08/12/2013	Bottom	6	-	57	190
	EX4-S1(3.0)	08/12/2013	Sidewall	3	-	0.99	< 50
	EX4-S8(3.0)	08/12/2013	Sidewall	3	-	< 0.99	< 49
	EX4-S9-(3.0)	09/13/2013	Sidewall	3	-	36	99
	EX4-S14-(4.0)	09/13/2013	Sidewall	4	-	< 0.99	< 49
EX3 / 4 Excavation	**EX3/4-B1(14)**	01/07/2014	Bottom	14	-	15	120
	EX3/4-B2(14)	01/07/2014	Bottom	14	-	500	3800
	EX3/4-B3(14)	01/07/2014	Bottom	14	-	280	1200
	EX3/4-S1(10)	01/07/2014	Sidewall	10	-	< 0.99	< 49
	EX3/4-S2(10)	01/07/2014	Sidewall	10	-	1800	2300
	EX3/4-S3(6)	01/07/2014	Sidewall	6	-	< 1	< 50
	EX3/4-S4(7)	01/07/2014	Sidewall	7	-	24	72
	EX3/4-S6(6)	01/07/2014	Sidewall	6	-	< 0.99	< 49
	EX3/4-S7(6)	01/07/2014	Sidewall	6	-	< 0.98	< 49
	EX3/4-S8(6)	01/07/2014	Sidewall	6	-	< 0.98	< 49
	EX3/4-S9(3)	01/30/2014	Sidewall	3	< 0.01	26	76
	EX3/4-S11(3)	07/10/2014	Sidewall	3	-	3.4	< 49
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**0.033**	**230**	**5100**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 2
AOC 1 - SUMMARY OF EXCAVATIONS 5 AND 7
CONFIRMATION SAMPLING ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Total Petroleum Hydrocarbons (mg/Kg)		
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**	**Total Petroleum Hydrocarbons-Stoddard Solvent**
EX5 Excavation	**EX5-B1(5.0)**	08/08/2013	Bottom	5	58	130	**-**
	EX5-S6-(2.5)	09/09/2013	Sidewall	2.5	94	300	**-**
	EX5-S7-(2.5)	09/09/2013	Sidewall	2.5	83	260	**-**
	EX5-S8-(2.5)	09/09/2013	Sidewall	2.5	100	150	**-**
	EX5-S10-(2.5)	09/09/2013	Sidewall	2.5	43	110	**-**
	EX5-S11-(2.5)	09/09/2013	Sidewall	2.5	84	200	**-**
	EX5-S12-(2.5)	09/09/2013	Sidewall	2.5	55	150	**-**
	EX5-S13-(2.5)	09/09/2013	Sidewall	2.5	57	160	**-**
	EX5-S14(5.0)	10/25/2013	Sidewall	5	2600	6500	< 50
EX7 Excavation	**EX7-B2(6.0)**	09/06/2013	Bottom	6	2.4	< 49	-
	EX7-S14 (3.0)	11/11/2013	Sidewall	3	< 0.99	< 50	-
	EX7-S15 (3.0)	11/11/2013	Sidewall	3	3.3	< 50	-
	EX7-S16 (3.0)	11/11/2013	Sidewall	3	< 1	< 50	-
	EX7-S17 (3.0)	11/11/2013	Sidewall	3	< 1	< 50	-
	EX7-S20	07/10/2014	Sidewall	3	140	780	-
	EX7-S21	07/10/2014	Sidewall	3	22	120	-
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**230**	**5100**	**100**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 3
AOC 1 - SUMMARY OF EXCAVATION 6
CONFIRMATION SAMPLING ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Semi-Volatile Organic Compounds (SIM) (mg/Kg)								
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Acenaphthene**	**Acenaphthylene**	**Anthracene**	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene**	**Benzo(g,h,i)perylene**	**Benzo(k)fluoranthene**	**Chrysene**
EX6 Excavation	**EX6-B1(6.0)**	08/08/2013	Bottom	6	-	-	-	-	-	-	-	-	-
	EX6-S6-(4.25)	09/10/2013	Sidewall	4.25	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	EX6-S9-(4.25)	09/10/2013	Sidewall	4.25	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	EX6-S10-(4.25)	09/10/2013	Sidewall	4.25	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	EX6-S11-(4.25)	09/10/2013	Sidewall	4.25	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.0099
	EX6-S14(5.0)	10/25/2013	Sidewall	5	-	-	-	-	-	-	-	-	-
	EX6-S15(4)	01/30/2014	Sidewall	4	-	-	-	-	-	-	-	-	-
	EX6-S18	07/10/2014	Sidewall	4	-	-	-	-	-	-	-	-	-
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**16**	**13**	**2.8**	**0.16**	**0.016**	**0.16**	**2.5**	**1.6**	**3.8**

Notes:

1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

a = ESL based on upper estimate of background arsenic concentration as referenced by the SFBRWQCB per, "Establishing background arsenic in Soil of the Urbanized San Francisco Bay Region", Dated December 2011

b = ESL for Chromium III

c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL

Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 3
AOC 1 - SUMMARY OF EXCAVATION 6
CONFIRMATION SAMPLING ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Semi-Volatile Organic Compounds (SIM) (mg/Kg)							Total Petroleum Hydrocarbons (mg/Kg)		
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Dibenz(a,h)anthracene**	**Fluoranthene**	**Fluorene**	**Indeno(1,2,3-cd)pyrene**	**Naphthalene**	**Phenanthrene**	**Pyrene**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**	**Total Petroleum Hydrocarbons-Stoddard Solvent**
EX6 Excavation	**EX6-B1(6.0)**	08/08/2013	Bottom	6	-	-	-	-	-	-	-	< 1	< 50	**-**
	EX6-S6-(4.25)	09/10/2013	Sidewall	4.25	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	73	230	**-**
	EX6-S9-(4.25)	09/10/2013	Sidewall	4.25	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	59	180	**-**
	EX6-S10-(4.25)	09/10/2013	Sidewall	4.25	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	31	100	**-**
	EX6-S11-(4.25)	09/10/2013	Sidewall	4.25	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.0099	< 0.0099	18	50	**-**
	EX6-S14(5.0)	10/25/2013	Sidewall	5	-	-	-	-	-	-	-	104	670	6.9
	EX6-S15(4)	01/30/2014	Sidewall	4	-	-	-	-	< 0.05	-	-	62	400	**-**
	EX6-S18	07/10/2014	Sidewall	4	-	-	-	-	-	-	-	87	270	**-**
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**0.016**	**60**	**8.9**	**0.16**	**0.033**	**11**	**85**	**230**	**5100**	**100**

Notes:

1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

a = ESL based on upper estimate of background arsenic concentration as referenced by the SFBRWQCB per, "Establishing background arsenic in Soil of the Urbanized San Francisco Bay Region", Dated December 2011

b = ESL for Chromium III

c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL

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TABLE 3
AOC 1 - SUMMARY OF EXCAVATION 6
CONFIRMATION SAMPLING ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Inorganic Compounds (mg/Kg)										
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**	**Copper**	**Lead**	**Mercury**	**Molybdenum**
EX6 Excavation	**EX6-B1(6.0)**	08/08/2013	Bottom	6	-	-	-	-	-	-	-	-	-	-	-
	EX6-S6-(4.25)	09/10/2013	Sidewall	4.25	< 1.8	< 3.5	93	< 0.35	< 0.44	33	8.2	26	24	0.021	< 1.8
	EX6-S9-(4.25)	09/10/2013	Sidewall	4.25	< 1.8	< 3.6	69	< 0.36	< 0.45	30	7.7	18	8.2	0.071	< 1.8
	EX6-S10-(4.25)	09/10/2013	Sidewall	4.25	< 1.9	< 3.9	92	< 0.39	< 0.49	35	9.2	30	8.8	0.021	< 1.9
	EX6-S11-(4.25)	09/10/2013	Sidewall	4.25	< 1.8	< 3.7	74	< 0.37	< 0.46	36	8.5	22	16	0.025	< 1.8
	EX6-S14(5.0)	10/25/2013	Sidewall	5	< 1.9	< 3.8	82	< 0.38	< 0.48	28	7.1	19	19	0.039	< 1.9
	EX6-S15(4)	01/30/2014	Sidewall	4	-	-	-	-	-	-	-	-	-	-	-
	EX6-S18	07/10/2014	Sidewall	4	-	-	-	-	-	-	-	-	-	-	-
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**31**	**11** [a]	**3000**	**42**	**39**	**120000** [b]	**23**	**3100**	**80**	**13**	**390**

Notes:

1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

a = ESL based on upper estimate of background arsenic concentration as referenced by the SFBRWQCB per, "Establishing background arsenic in Soil of the Urbanized San Francisco Bay Region", Dated December 2011

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TABLE 3
AOC 1 - SUMMARY OF EXCAVATION 6
CONFIRMATION SAMPLING ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Inorganic Compounds (mg/KG)					
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Nickel**	**Selenium**	**Silver**	**Thallium**	**Vanadium**	**Zinc**
EX6 Excavation	**EX6-B1(6.0)**	08/08/2013	Bottom	6	-	-	-	-	-	-
	EX6-S6-(4.25)	09/10/2013	Sidewall	4.25	49	< 3.5	< 0.88	< 1.8	23	73
	EX6-S9-(4.25)	09/10/2013	Sidewall	4.25	43	< 3.6	< 0.91	< 1.8	25	48
	EX6-S10-(4.25)	09/10/2013	Sidewall	4.25	61	< 3.9	< 0.97	< 1.9	29	46
	EX6-S11-(4.25)	09/10/2013	Sidewall	4.25	52	< 3.7	< 0.92	< 1.8	25	97
	EX6-S14(5.0)	10/25/2013	Sidewall	5	47	< 3.8	< 0.96	< 1.9	18	46
	EX6-S15(4)	01/30/2014	Sidewall	4	-	-	-	-	-	-
	EX6-S18	07/10/2014	Sidewall	4	-	-	-	-	-	-
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**820** [c]	**390**	**390**	**0.78**	**390**	**23000**

Notes:

1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

a = ESL based on upper estimate of background arsenic concentration as referenced by the SFBRWQCB per, "Establishing background arsenic in Soil of the Urbanized San Francisco Bay Region", Dated December 2011

b = ESL for Chromium III

c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL

Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 4
AOC 1 - SUMMARY OF EXCAVATIONS 8 AND 9
CONFIRMATION SAMPLING ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Semi-Volatile Organic Compounds (SIM) (mg/Kg)	Total Petroleum Hydrocarbons (mg/Kg)	
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Naphthalene**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**
EX8 Excavation	**EX8-B1(2.0)**	08/12/2013	Bottom	2	-	5.2	< 50
	EX8-S1(1.0)	08/12/2013	Sidewall	1	< 0.0099	9.9	< 49
	EX8-S2(1)	08/12/2013	Sidewall	1	-	5.2	< 49
	EX8-S3(1.0)	08/12/2013	Sidewall	1	< 0.025	5.8	49
	EX8-S4(1.0)	08/12/2013	Sidewall	1	-	8.7	< 50
EX9 Excavation	**EX9-B1(8.0)**	08/14/2013	Bottom	8	-	< 0.98	< 49
	EX9-B2(8.0)	08/14/2013	Bottom	8	-	< 0.99	< 49
	EX9-S2(4.0)	08/14/2013	Sidewall	4	-	17	81
	EX9-S3(6.0)	08/14/2013	Sidewall	6	-	7.4	< 49
	EX9-S4(6.0)	08/14/2013	Sidewall	6	-	3.5	< 49
	EX9-S5(6.0)	08/14/2013	Sidewall	6	< 0.005	1.7	< 50
	EX9-S6-(4.0)	09/13/2013	Sidewall	4	-	< 0.0099	< 0.5
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**0.033**	**230**	**5100**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 5
AOC 1 - SUMMARY OF EXCAVATIONS 10 AND 11
CONFIRMATION SAMPLING ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

Location	Sample Name	Sample Date	Sample Type	Sample Depth (feet bgs)	Total Petroleum Hydrocarbons (mg/Kg)	
					Total Petroleum Hydrocarbons (C10-C28) DRO	Total Petroleum Hydrocarbons (C24-C36) Motor Oil
EX10/11 Excavation	**EX10/EX11-B1 (18.0)**	09/04/2013	Bottom	18	1500	1000
	EX10/11-B1(15.0)	11/14/2013	Bottom	15	120	190
	EX10/11-B3(10.0)	11/27/2013	Bottom	10	64	160
	EX10/EX11-S1 (10.0)	09/04/2013	Sidewall	10	< 0.99	< 50
	EX10/11-S2(20.0)	10/03/2013	Sidewall	20	1.9	< 50
	EX10/11-S3(7.0)	11/14/2013	Sidewall	7	1800	4000
	EX10/11-S4(5.0)	11/14/2013	Sidewall	5	240	740
	EX10/11-S5(5.0)	11/14/2013	Sidewall	5	12	< 50
	EX10/11-S6(3.0)	11/14/2013	Sidewall	3	41	110
	EX10/11-S7(3.0)	11/14/2013	Sidewall	3	1100	2800
	EX10/11-S8(6.0)	11/27/2013	Sidewall	6	46	160
	EX10/11-S9(7.0)	11/27/2013	Sidewall	7	7.1	< 49
	EX10/11-S13	07/07/2014	Sidewall	4	150	130
	EX10/11-S14	07/07/2014	Sidewall	4	570	< 250
	EX10/11-S15	07/07/2014	Sidewall	4	160	78
	EX10/11-S16	07/07/2014	Sidewall	4	910	< 500
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**230**	**5100**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 6
AOC 1 - SUMMARY OF RAIL LINE EXCAVATION
INVESTIGATION SAMPLING ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					PCBs (mg/Kg)							Semi-Volatile Organic Compounds (SIM) (mg/Kg)						
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Aroclor-1016 (PCB-1016)**	**Aroclor-1221 (PCB-1221)**	**Aroclor-1232 (PCB-1232)**	**Aroclor-1242 (PCB-1242)**	**Aroclor-1248 (PCB-1248)**	**Aroclor-1254 (PCB-1254)**	**Aroclor-1260 (PCB-1260)**	**Acenaphthene**	**Acenaphthylene**	**Anthracene**	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene**	**Benzo(g,h,i)perylene**
Rail Line Excavation	**RL-B1**	12/17/2013	Primary	2.5	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099	< 0.099
	RL-B2	12/17/2013	Primary	2.5	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	0.21	< 0.049	0.55	< 0.10	1.1	2.1	1.3	1.8	0.47
	RL-B3	12/17/2013	Primary	3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	2.0	< 0.49	1.5	< 0.50	4.4	9.3	6.2	8.8	1.3
	RL-B4	12/17/2013	Primary	3	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049
	RL-B5	12/17/2013	Primary	3	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.10	< 0.10	0.16	0.10	< 0.10	0.11	< 0.10
	RL-B6	12/17/2013	Primary	3	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	0.27	< 0.10	0.39	0.51	0.27	0.44	0.11
	RL-B7	12/17/2013	Primary	3	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.099	< 0.099	0.12	< 0.099	0.10	< 0.099	0.16
	RL-B8	12/17/2013	Primary	3.5	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.089	< 0.050	0.18	0.22	0.15	0.24	0.074
	RL-B9	12/17/2013	Primary	3.5	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	0.11	< 0.049	0.15	< 0.0099	0.14	0.13	0.064	0.12	0.025
	RL-B10	12/17/2013	Primary	3	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.0099	< 0.0099	0.047	0.041	0.079	0.15	0.096
	RL-B11	12/17/2013	Primary	4	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
	RL-B12	12/17/2013	Primary	3	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	0.068	0.35	0.020	0.23	0.36	0.19	0.26	0.19
	RL-B13	12/17/2013	Primary	4	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.074	< 0.050	< 0.049	< 0.049	0.054	0.11	0.075	0.068	0.060
	RL-B14	12/17/2013	Primary	5	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.11	< 0.050	0.078	< 0.025	0.13	0.26	0.22	0.24	0.11
	RL-B15	12/17/2013	Primary	3	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	0.0054	0.0087	0.018	0.0068	< 0.0049	0.010	0.017
	RL-B16	12/17/2013	Primary	5	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.11	< 0.025	0.34	0.58	0.38	0.52	0.12
	RL-B17	12/17/2013	Primary	5	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.049	0.25	0.55	0.31	0.22	0.64	0.24
	RL-S1(2)	01/09/2014	Primary	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	RL-S2(2)	01/09/2014	Primary	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	RL-S3(2)	01/09/2014	Primary	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	RL-S4(2)	01/09/2014	Primary	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	RL-S5(2)	01/09/2014	Primary	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	RL-S6(2.5)	01/09/2014	Primary	2.5	-	-	-	-	-	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0061	< 0.0050
	RL-S7(5)	01/09/2014	Primary	5	-	-	-	-	-	-	-	< 0.0050	0.049	0.058	0.011	0.017	0.027	0.089
	RL-S8(3)	01/09/2014	Primary	3	-	-	-	-	-	-	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**0.25**							**16**	**13**	**2.8**	**0.16**	**0.016**	**0.16**	**2.5**

Notes:

1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

a = ESL for Chromium III
b = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 6
AOC 1 - SUMMARY OF RAIL LINE EXCAVATION
INVESTIGATION SAMPLING ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Semi-Volatile Organic Compounds (SIM) (mg/Kg)									Total Petroleum Hydrocarbons (mg/Kg)	
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Benzo(k)fluoranthene**	**Chrysene**	**Dibenz(a,h)anthracene**	**Fluoranthene**	**Fluorene**	**Indeno(1,2,3-cd)pyrene**	**Naphthalene**	**Phenanthrene**	**Pyrene**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**
Rail Line Excavation	**RL-B1**	12/17/2013	Primary	2.5	< 0.099	< 0.099	< 0.099	0.16	< 0.099	< 0.099	< 0.099	0.18	0.16	**400**	**380**
	RL-B2	12/17/2013	Primary	2.5	0.66	2.2	0.19	4.9	0.38	0.45	< 0.10	3.8	4.9	**670**	**720**
	RL-B3	12/17/2013	Primary	3	4.2	10	0.60	22	0.97	1.4	< 0.50	14	22	**590**	**910**
	RL-B4	12/17/2013	Primary	3	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	**230**	**520**
	RL-B5	12/17/2013	Primary	3	< 0.10	0.14	< 0.10	0.36	< 0.10	< 0.10	< 0.10	0.46	0.29	**160**	**480**
	RL-B6	12/17/2013	Primary	3	0.17	0.56	< 0.10	1.9	0.23	< 0.10	< 0.10	2.2	1.6	**140**	**340**
	RL-B7	12/17/2013	Primary	3	< 0.099	< 0.099	< 0.099	0.16	< 0.099	< 0.099	< 0.099	0.20	0.15	**260**	**430**
	RL-B8	12/17/2013	Primary	3.5	0.090	0.24	< 0.050	0.65	0.067	0.056	< 0.050	0.58	0.57	**110**	**190**
	RL-B9	12/17/2013	Primary	3.5	0.045	0.14	< 0.0099	0.50	0.12	0.020	0.028	0.69	0.39	**130**	**220**
	RL-B10	12/17/2013	Primary	3	0.055	0.064	0.018	0.076	< 0.0099	0.053	< 0.0099	0.051	0.086	**110**	**200**
	RL-B11	12/17/2013	Primary	4	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.98	< 49
	RL-B12	12/17/2013	Primary	3	0.21	0.36	0.050	1.2	0.13	0.12	0.059	0.58	1.2	**85**	**180**
	RL-B13	12/17/2013	Primary	4	0.058	0.12	< 0.049	0.28	< 0.049	< 0.049	< 0.049	0.17	0.30	**83**	**360**
	RL-B14	12/17/2013	Primary	5	0.19	0.28	0.061	0.51	0.064	0.10	0.028	0.40	0.54	**97**	**300**
	RL-B15	12/17/2013	Primary	3	< 0.0049	0.0071	< 0.0049	0.019	< 0.0049	0.0089	< 0.0049	0.020	0.014	**22**	**57**
	RL-B16	12/17/2013	Primary	5	0.24	0.63	0.047	1.5	0.089	0.12	< 0.025	1.1	1.4	**56**	**120**
	RL-B17	12/17/2013	Primary	5	0.23	0.48	0.071	0.90	0.062	0.20	< 0.049	0.26	0.82	**54**	**150**
	RL-S1(2)	01/09/2014	Primary	2	-	-	-	-	-	-	-	-	-	**130**	**420**
	RL-S2(2)	01/09/2014	Primary	2	-	-	-	-	-	-	-	-	-	**170**	**600**
	RL-S3(2)	01/09/2014	Primary	2	-	-	-	-	-	-	-	-	-	**220**	**500**
	RL-S4(2)	01/09/2014	Primary	2	-	-	-	-	-	-	-	-	-	**87**	**250**
	RL-S5(2)	01/09/2014	Primary	2	-	-	-	-	-	-	-	-	-	**170**	**570**
	RL-S6(2.5)	01/09/2014	Primary	2.5	< 0.0050	0.0067	< 0.0050	0.0072	< 0.0050	< 0.0050	< 0.0050	0.0075	0.013	**-**	**-**
	RL-S7(5)	01/09/2014	Primary	5	0.0082	0.0072	0.011	0.018	< 0.0050	0.041	< 0.0050	0.0087	0.016	**-**	**-**
	RL-S8(3)	01/09/2014	Primary	3	< 0.0050	< 0.0050	< 0.0050	0.011	< 0.0050	< 0.0050	< 0.0050	0.0057	0.0093	**-**	**-**
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**1.6**	**3.8**	**0.016**	**60**	**8.9**	**0.16**	**0.033**	**11**	**85**	**230**	**5100**

Notes:

1. Constituents that were not detected during initial round of sampling were excluded from further analyses.

2. - Sample not analyzed for this constituent.

3. <RL Sample not detected above indicated reporting limit.

a = ESL for Chromium III

b = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL

Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 6
AOC 1 - SUMMARY OF RAIL LINE EXCAVATION
INVESTIGATION SAMPLING ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Inorganic Compounds (mg/Kg)				
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Cadmium**	**Chromium**	**Lead**	**Nickel**	**Zinc**
Rail Line Excavation	**RL-B1**	12/17/2013	Primary	2.5	< 0.12	52	20	70	55
	RL-B2	12/17/2013	Primary	2.5	< 0.12	54	34	68	55
	RL-B3	12/17/2013	Primary	3	< 0.11	40	24	58	63
	RL-B4	12/17/2013	Primary	3	0.19	51	35	69	84
	RL-B5	12/17/2013	Primary	3	0.13	45	26	64	130
	RL-B6	12/17/2013	Primary	3	< 0.11	60	19	73	89
	RL-B7	12/17/2013	Primary	3	0.12	31	12	45	36
	RL-B8	12/17/2013	Primary	3.5	< 0.12	50	13	64	56
	RL-B9	12/17/2013	Primary	3.5	< 0.11	55	13	71	73
	RL-B10	12/17/2013	Primary	3	< 0.12	65	18	76	58
	RL-B11	12/17/2013	Primary	4	< 0.12	82	9.5	110	62
	RL-B12	12/17/2013	Primary	3	< 0.10	43	9.5	59	46
	RL-B13	12/17/2013	Primary	4	< 0.12	51	9.6	64	150
	RL-B14	12/17/2013	Primary	5	< 0.11	55	10	75	55
	RL-B15	12/17/2013	Primary	3	< 0.11	74	7.8	91	51
	RL-B16	12/17/2013	Primary	5	0.12	53	11	64	86
	RL-B17	12/17/2013	Primary	5	< 0.12	65	20	78	81
	RL-S1(2)	01/09/2014	Primary	2	-	-	-	-	-
	RL-S2(2)	01/09/2014	Primary	2	-	-	-	-	-
	RL-S3(2)	01/09/2014	Primary	2	-	-	-	-	-
	RL-S4(2)	01/09/2014	Primary	2	-	-	-	-	-
	RL-S5(2)	01/09/2014	Primary	2	-	-	-	-	-
	RL-S6(2.5)	01/09/2014	Primary	2.5	-	-	-	-	-
	RL-S7(5)	01/09/2014	Primary	5	-	-	-	-	-
	RL-S8(3)	01/09/2014	Primary	3	-	-	-	-	-
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**39**	**120000** [a]	**80**	**820** [b]	**23000**

Notes:

1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

a = ESL for Chromium III

b = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL

Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 7
AOC 1 - SUMMARY OF CONCRETE FOOTING
CONFIRMATION SAMPLING ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Total Petroleum Hydrocarbons (mg/Kg)	
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**
CF2 Excavation	**CF2-B2 (2)**	01/08/2014	Bottom	2	19	63
CF5 Excavation	**CF5-B3(10.0)**	11/04/2013	Bottom	10	170	540
	CF5-S2(2.5)	09/10/2013	Sidewall	2.5	1.6	< 50
	CF5-S3(2.5)	09/10/2013	Sidewall	2.5	2.8	< 50
	CF5-S5(4.5)	11/04/2013	Sidewall	4.5	70	200
	CF5-S6(4.5)	11/04/2013	Sidewall	4.5	1900	4500
	CF5-S7(4.5)	11/04/2013	Sidewall	4.5	520	1500
	SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)				**230**	**5100**

Notes:

1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 8

AOC 1 - SUMMARY OF CONTAINMENT STRUCTURE AND TRUCK SCALE CONFIRMATION SAMPLING ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Semi-Volatile Organic Compounds (SIM) (mg/Kg)	Total Petroleum Hydrocarbons (mg/Kg)	
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Naphthalene**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**
Containment Structure	**CS-B10**	11/25/2013	Bottom	3	-	14	< 50
	CS-B11	11/25/2013	Bottom	3	-	1.5	< 49
	CS-B12(3.0)	11/27/2013	Bottom	3	-	1.9	< 50
	CS-S1 (1.5)	11/26/2013	Sidewall	1.5	-	4.6	< 49
	CS-S2 (1.5)	11/26/2013	Sidewall	1.5	-	9.0	61
	CS-S3 (1.5)	11/26/2013	Sidewall	1.5	-	3.0	< 49
	CS-S4 (1.5)	11/26/2013	Sidewall	1.5	-	19	74
	CS-S5 (1.5)	11/26/2013	Sidewall	1.5	-	22	96
	CS-S6 (1.5)	11/26/2013	Sidewall	1.5	-	2.0	< 49
	CS-S7 (1.5)	11/26/2013	Sidewall	1.5	-	21	63
	CS-S9(1.5)	11/27/2013	Sidewall	1.5	-	< 0.99	< 50
	CS-S10 (1.5)	01/08/2014	Sidewall	1.5	-	4.1	< 50
Truck Scale Excavation 1	**TS1-B1**	11/25/2013	Bottom	3	-	52	170
	TS1-S1 (1.5)	11/26/2013	Sidewall	1.5	-	< 1.0	< 50
	TS1-S3 (1.5)	11/26/2013	Sidewall	1.5	-	29	120
	TS1-S5-(1.5)	12/05/2013	Sidewall	1.5	-	68	220
	TS1-S6(1.5)	12/05/2013	Sidewall	1.5	-	12	< 49
Truck Scale Excavation 2	**TS2-B1**	11/25/2013	Bottom	3	-	8.8	< 50
	TS2-S1 (1.5)	11/26/2013	Sidewall	1.5	-	28	180
	TS2-S2 (1.5)	11/26/2013	Sidewall	1.5	-	5.6	< 49
	TS2-S3 (1.5)	11/26/2013	Sidewall	1.5	-	24	190
	TS2-S4 (1.5)	11/26/2013	Sidewall	1.5	-	28	130
Truck Scale Excavation 3	**TS3-B1**	11/25/2013	Bottom	3	-	< 1.0	< 50
	TS3-S1(5.0)	11/25/2013	Sidewall	5	< 0.0049	4.0	< 50
	TS3-S2 (1.5)	11/26/2013	Sidewall	1.5	-	18	120
	TS3-S7 (1.5)	01/08/2014	Sidewall	1.5	-	< 0.99	< 50
Truck Scale Excavation 4	**TS4-B1**	11/25/2013	Bottom	3	-	68	280
	TS4-S1 (1.5)	11/26/2013	Sidewall	1.5	-	3.4	< 49
	TS4-S2 (1.5)	11/26/2013	Sidewall	1.5	-	77	190
	TS4-S3 (1.5)	11/26/2013	Sidewall	1.5	-	6.5	< 49
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**0.033**	**230**	**5100**

Notes:

1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

TABLE 9

AOC 1 - SUMMARY OF CONVEYOR CULVERT
CONFIRMATION SAMPLING ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Total Petroleum Hydrocarbons (mg/Kg)	
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**
Conveyor Culvert	**CC-B1(20.0)**	08/12/2013	Bottom	20	< 0.99	< 50
	CC-B100(18.0)	08/15/2013	Bottom	18	3.3	< 50
	CC-B140(20.0)	08/15/2013	Bottom	20	15	< 49
	CC-B160(20.0)	08/15/2013	Bottom	20	5.3	< 50
	CC-B2(20.0)	08/12/2013	Bottom	20	< 0.99	< 49
	CC-B20(9.0)	08/15/2013	Bottom	9	2.6	< 50
	CC-B3(20.0)	08/12/2013	Bottom	20	< 0.99	< 49
	CC-B60(14.0)	08/15/2013	Bottom	14	< 1	< 50
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**230**	**5100**

Notes:

1. <RL Sample not detected above indicated reporting limit.

TABLE 10
AOC 2 - SEPTIC TANK AND LEACH FIELD EXCAVATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

	Location	Septic Tank	Leach Field					Action Levels
	Sample Date	11/27/2013	11/12/2013	11/12/2013	11/12/2013	11/12/2013	11/12/2013	SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)
	Sample Depth (bgs)	9.5 (ft)	7 (ft)	7 (ft)	7 (ft)	7 (ft)	7 (ft)	
Chemical Name	Sample Name	2-ST-B1-(9.5)	LF-B6(7.0)	LF-B7(7.0)	LF-B8(7.0)	LF-B9(7.0)	LF-B10(7.0)	
Total Petroleum Hydrocarbons	Total Petroleum Hydrocarbons (C10-C28) DRO	< 0.99	< 0.99	< 0.99	< 1.0	< 1.0	< 0.99	**230**
	Total Petroleum Hydrocarbons (C5-C12) GRO	< 0.22	-	-	-	-	-	**100**
	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	< 49	< 50	< 50	< 50	< 50	< 49	**5100**
Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	< 0.0043	-	-	-	-	-	**0.18**
	1,1,1-Trichloroethane	< 0.0043	-	-	-	-	-	**7.8**
	1,1,2,2-Tetrachloroethane	< 0.0043	-	-	-	-	-	**0.018**
	1,1,2-Trichloroethane	< 0.0043	-	-	-	-	-	**0.07**
	1,1-Dichloroethane	< 0.0043	-	-	-	-	-	**0.2**
	1,1-Dichloroethene	< 0.0043	-	-	-	-	-	**0.55**
	1,1-Dichloropropene	< 0.0043	-	-	-	-	-	**-**
	1,2,3-Trichlorobenzene	< 0.0043	-	-	-	-	-	**-**
	1,2,3-Trichloropropane	< 0.0043	-	-	-	-	-	**-**
	1,2,4-Trichlorobenzene	< 0.0043	-	-	-	-	-	**1.5**
	1,2,4-Trimethylbenzene	< 0.0043	-	-	-	-	-	**-**
	1,2-Dibromo-3-chloropropane (DBCP)	< 0.0043	-	-	-	-	-	**0.0045**
	1,2-Dibromoethane (Ethylene Dibromide)	< 0.0043	-	-	-	-	-	**0.00033**
	1,2-Dichlorobenzene	< 0.0043	-	-	-	-	-	**1.6**
	1,2-Dichloroethane	< 0.0043	-	-	-	-	-	**0.0045**
	1,2-Dichloropropane	< 0.0043	-	-	-	-	-	**0.12**
	1,3,5-Trimethylbenzene	< 0.0043	-	-	-	-	-	**-**
	1,3-Dichlorobenzene	< 0.0043	-	-	-	-	-	**7.4**
	1,3-Dichloropropane	< 0.0043	-	-	-	-	-	**0.059**
	1,4-Dichlorobenzene	< 0.0043	-	-	-	-	-	**0.59**
	2,2-Dichloropropane	< 0.0043	-	-	-	-	-	
	2-Butanone (Methyl Ethyl Ketone)	< 0.043	-	-	-	-	-	
	2-Chlorotoluene	< 0.0043	-	-	-	-	-	
	2-Hexanone	< 0.043	-	-	-	-	-	
	2-Phenylbutane (sec-Butylbenzene)	< 0.0043	-	-	-	-	-	
	4-Chlorotoluene	< 0.0043	-	-	-	-	-	
	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	< 0.043	-	-	-	-	-	
	Acetone	< 0.043	-	-	-	-	-	**0.5**
	Benzene	< 0.0043	-	-	-	-	-	**0.044**
	Bromobenzene	< 0.0043	-	-	-	-	-	**-**
	Bromodichloromethane	< 0.0043	-	-	-	-	-	**0.52**
	Bromoform	< 0.0043	-	-	-	-	-	**1.7**
	Bromomethane (Methyl Bromide)	< 0.0087	-	-	-	-	-	**0.3**
	Carbon disulfide	< 0.0043	-	-	-	-	-	**-**
	Carbon tetrachloride	< 0.0043	-	-	-	-	-	**0.048**
	Chlorobenzene	< 0.0043	-	-	-	-	-	**1.5**
	Chlorobromomethane	< 0.017	-	-	-	-	-	**-**
	Chloroethane	< 0.0087	-	-	-	-	-	**1.1**
	Chloroform (Trichloromethane)	< 0.0043	-	-	-	-	-	**0.068**
	Chloromethane (Methyl Chloride)	< 0.0087	-	-	-	-	-	**29**
	cis-1,2-Dichloroethene	< 0.0043	-	-	-	-	-	**0.19**
	cis-1,3-Dichloropropene	< 0.0043	-	-	-	-	-	**-**
	Cymene (p-Isopropyltoluene)	< 0.0043	-	-	-	-	-	**-**
	Dibromochloromethane	< 0.0043	-	-	-	-	-	**-**
	Dibromomethane	< 0.0087	-	-	-	-	-	**-**
	Dichlorodifluoromethane (CFC-12)	< 0.0087	-	-	-	-	-	**-**
	Ethylbenzene	< 0.0043	-	-	-	-	-	**1.4**
	Hexachlorobutadiene	< 0.0043	-	-	-	-	-	**0.68**
	Isopropylbenzene	< 0.0043	-	-	-	-	-	**-**
	Methyl Tert Butyl Ether	< 0.0043	-	-	-	-	-	**0.023**
	Methylene chloride	< 0.0087	-	-	-	-	-	**0.077**
	Naphthalene	< 0.0087	-	-	-	-	-	**0.033**
	n-Butylbenzene	< 0.0043	-	-	-	-	-	**-**

TABLE 10
AOC 2 - SEPTIC TANK AND LEACH FIELD EXCAVATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

	Location	Septic Tank	Leach Field					Action Levels
	Sample Date	11/27/2013	11/12/2013	11/12/2013	11/12/2013	11/12/2013	11/12/2013	SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)
	Sample Depth (bgs)	9.5 (ft)	7 (ft)	7 (ft)	7 (ft)	7 (ft)	7 (ft)	
Chemical Name	Sample Name	2-ST-B1-(9.5)	LF-B6(7.0)	LF-B7(7.0)	LF-B8(7.0)	LF-B9(7.0)	LF-B10(7.0)	
Volatile Organic Compounds	n-Propylbenzene	< 0.0043	-	-	-	-	-	-
	Styrene	< 0.0043	-	-	-	-	-	1.5
	tert-Butylbenzene	< 0.0043	-	-	-	-	-	-
	Tetrachloroethene	< 0.0043	-	-	-	-	-	0.42
	Toluene	< 0.0043	-	-	-	-	-	2.9
	trans-1,2-Dichloroethene	< 0.0043	-	-	-	-	-	0.67
	trans-1,3-Dichloropropene	< 0.0043	-	-	-	-	-	-
	Trichloroethene	< 0.0043	-	-	-	-	-	5
	Trichlorofluoromethane (CFC-11)	< 0.0043	-	-	-	-	-	-
	Trifluorotrichloroethane (Freon 113)	< 0.0043	-	-	-	-	-	-
	Vinyl acetate	< 0.043	-	-	-	-	-	-
	Vinyl chloride	< 0.0043	-	-	-	-	-	0.0082
	Xylene (total)	< 0.0087	-	-	-	-	-	2.3
Inorganic Compounds	Antimony	< 2.0	< 1.8	< 1.9	< 1.8	< 1.9	< 2.0	31
	Arsenic	< 3.9	< 3.6	< 3.8	< 3.5	< 3.9	< 3.9	11 [a]
	Barium	58	130	120	140	110	120	3000
	Beryllium	< 0.39	< 0.36	< 0.38	< 0.35	< 0.39	< 0.39	42
	Cadmium	< 0.49	< 0.45	< 0.48	< 0.44	< 0.49	< 0.49	39
	Chromium	33	64	58	63	67	59	120000 [b]
	Cobalt	6.7	11	10	10	10	10	23
	Copper	13	28	25	29	26	26	3100
	Lead	3.8	6.4	6.2	7.4	6.9	6.3	80
	Mercury	0.010	0.018	0.016	0.41	0.031	0.022	13
	Molybdenum	< 2.0	< 1.8	< 1.9	< 1.8	< 1.9	< 2.0	390
	Nickel	55	74	90	80	79	74	820 [c]
	Selenium	< 3.9	< 3.6	< 3.8	< 3.5	< 3.9	< 3.9	390
	Silver	< 0.98	< 0.89	< 0.95	< 0.88	< 0.97	< 0.98	390
	Thallium	< 2.0	< 1.8	< 1.9	< 1.8	< 1.9	< 2.0	0.78
	Vanadium	17	36	31	33	33	33	390
	Zinc	27	50	50	57	52	51	23000

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

a = ESL based on upper estimate of background arsenic concentration as referenced by the SFBRWQCB per, "Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region", dated December 2011

b = ESL for Chromium III

c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL

Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 11
AOC 2 - Septic Line
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

	Location	Septic Line								Action Levels
	Sample Date	10/17/2013	10/17/2013	10/17/2013	10/17/2013	10/17/2013	10/17/2013	10/17/2013	10/17/2013	
	Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	
	Sample Depth (bgs)	4.8 (ft)	4.2 (ft)	3.9 (ft)	3.6 (ft)	3 (ft)	2.7 (ft)	2.4 (ft)	2.4 (ft)	SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)
Chemical Name	Sample Name	2-SL-1 (4.8)	2-SL-2 (4.2)	2-SL-3 (3.9)	2-SL-4 (3.6)	2-SL-5 (3.0)	2-SL-6 (2.7)	2-SL-7 (2.4)	2-SL-8 (2.4)	
Inorganic Compounds (mg/Kg)	Cadmium	< 0.47	< 0.49	< 0.40	< 0.47	< 0.46	< 0.40	< 0.50	< 0.41	39
	Chromium	46	48	45	44	67	38	44	48	120000 [a]
	Lead	5.7	12	5.7	6.7	16	6.6	9.9	12	80
	Nickel	67	66	67	70	72	60	65	64	820 [b]
	Zinc	40	47	39	49	51	150	340	130	23000
PCBs (mg/Kg)	Aroclor-1016 (PCB-1016)	< 0.050	< 0.049	< 0.050	< 0.050	< 0.049	< 0.049	< 0.050	< 0.049	0.25
	Aroclor-1221 (PCB-1221)	< 0.050	< 0.049	< 0.050	< 0.050	< 0.049	< 0.049	< 0.050	< 0.049	
	Aroclor-1232 (PCB-1232)	< 0.050	< 0.049	< 0.050	< 0.050	< 0.049	< 0.049	< 0.050	< 0.049	
	Aroclor-1242 (PCB-1242)	< 0.050	< 0.049	< 0.050	< 0.050	< 0.049	< 0.049	< 0.050	< 0.049	
	Aroclor-1248 (PCB-1248)	< 0.050	< 0.049	< 0.050	< 0.050	< 0.049	< 0.049	< 0.050	< 0.049	
	Aroclor-1254 (PCB-1254)	< 0.050	< 0.049	< 0.050	< 0.050	< 0.049	< 0.049	< 0.050	< 0.049	
	Aroclor-1260 (PCB-1260)	< 0.050	< 0.049	< 0.050	< 0.050	< 0.049	< 0.049	< 0.050	< 0.049	
Total Petroleum Hydrocarbons (mg/Kg)	Total Petroleum Hydrocarbons (C10-C28) DRO	22	9.2	14	94	3.4	6.2	100	20	230
	Total Petroleum Hydrocarbons (C5-C12) GRO	< 0.24	< 0.22	< 0.24	< 0.23	< 0.25	< 0.23	< 0.24	< 0.25	100
	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	60	< 49	< 50	< 50	< 49	< 50	310	89	5100
Volatile Organic Compounds (mg/Kg)	1,1,1,2-Tetrachloroethane	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.18
	1,1,1-Trichloroethane	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	7.8
	1,1,2,2-Tetrachloroethane	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.018
	1,1,2-Trichloroethane	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.07
	1,1-Dichloroethane	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.2
	1,1-Dichloroethene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.55
	1,1-Dichloropropene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	1,2,3-Trichlorobenzene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	1,2,3-Trichloropropane	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	1,2,4-Trichlorobenzene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	1.5
	1,2,4-Trimethylbenzene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	1,2-Dibromo-3-chloropropane	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.0045
	1,2-Dibromoethane (Ethylene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.00033
	1,2-Dichlorobenzene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	1.6
	1,2-Dichloroethane	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.0045
	1,2-Dichloropropane	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.12
	1,3,5-Trimethylbenzene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	1,3-Dichlorobenzene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	7.4
	1,3-Dichloropropane	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.059
	1,4-Dichlorobenzene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.59
	2,2-Dichloropropane	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	2-Butanone (Methyl Ethyl Ketone)	< 0.048	< 0.045	< 0.047	< 0.045	< 0.049	< 0.045	< 0.047	< 0.050	-
	2-Chlorotoluene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	2-Hexanone	< 0.048	< 0.045	< 0.047	< 0.045	< 0.049	< 0.045	< 0.047	< 0.050	-
	2-Phenylbutane (sec-Butylbenzene)	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	4-Chlorotoluene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	4-Methyl-2-Pentanone	< 0.048	< 0.045	< 0.047	< 0.045	< 0.049	< 0.045	< 0.047	< 0.050	-
	Acetone	< 0.048	< 0.045	< 0.047	< 0.045	< 0.049	< 0.045	< 0.047	< 0.050	0.5
	Benzene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.044
	Bromobenzene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	Bromodichloromethane	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.52
	Bromoform	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	1.7
	Bromomethane (Methyl Bromide)	< 0.0096	< 0.0089	< 0.0095	< 0.0090	< 0.0098	< 0.0091	< 0.0095	< 0.010	0.3
	Carbon disulfide	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	Carbon tetrachloride	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.048
	Chlorobenzene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	1.5
	Chlorobromomethane	< 0.019	< 0.018	< 0.019	< 0.018	< 0.020	< 0.018	< 0.019	< 0.020	-
	Chloroethane	< 0.0096	< 0.0089	< 0.0095	< 0.0090	< 0.0098	< 0.0091	< 0.0095	< 0.010	1.1
	Chloroform (Trichloromethane)	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.068
	Chloromethane (Methyl Chloride)	< 0.0096	< 0.0089	< 0.0095	< 0.0090	< 0.0098 *	< 0.0091	< 0.0095	< 0.010	29
	cis-1,2-Dichloroethene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.19
	cis-1,3-Dichloropropene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	Cymene (p-Isopropyltoluene)	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	Dibromochloromethane	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	Dibromomethane	< 0.0096	< 0.0089	< 0.0095	< 0.0090	< 0.0098	< 0.0091	< 0.0095	< 0.010	-
	Dichlorodifluoromethane (CFC-12)	< 0.0096	< 0.0089	< 0.0095	< 0.0090	< 0.0098	< 0.0091	< 0.0095	< 0.010	-
	Ethylbenzene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	1.4
	Hexachlorobutadiene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.68
	Isopropylbenzene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	Methyl Tert Butyl Ether	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.023
	Methylene chloride	< 0.0096	< 0.0089	< 0.0095	< 0.0090	< 0.0098	< 0.0091	< 0.0095	< 0.010	0.077
	Naphthalene	< 0.0096 *	< 0.0089 *	< 0.0095 *	< 0.0090 *	< 0.0098	< 0.0091 *	< 0.0095 *	< 0.010 *	0.033
	n-Butylbenzene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	n-Propylbenzene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	Styrene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	1.5
	tert-Butylbenzene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	Tetrachloroethene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.42
	Toluene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	2.9
	trans-1,2-Dichloroethene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.67
Volatile Organic Compounds (mg/Kg)	trans-1,3-Dichloropropene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	Trichloroethene	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	5
	Trichlorofluoromethane (CFC-11)	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	Trifluorotrichloroethane	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	-
	Vinyl acetate	< 0.048	< 0.045	< 0.047	< 0.045	< 0.049	< 0.045	< 0.047	< 0.050	-
	Vinyl chloride	< 0.0048	< 0.0045	< 0.0047	< 0.0045	< 0.0049	< 0.0045	< 0.0047	< 0.0050	0.0082
	Xylene (total)	< 0.0096	< 0.0089	< 0.0095	< 0.0090	< 0.0098	< 0.0091	< 0.0095	< 0.010	2.3

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

a = ESL for Chromium III
b = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 12
AOC 2 - OIL/WATER SEPARATOR EXCAVATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

	Location	Oil/Water Separator										Action Levels
	Sample Date	11/14/2013	11/14/2013	11/14/2013	11/14/2013	11/14/2013	11/14/2013	11/14/2013	12/05/2013	12/05/2013	12/05/2013	SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)
	Sample Depth (bgs)	5 (ft)	5 (ft)	2.5 (ft)	3 (ft)	3.25 (ft)	3.25 (ft)	2.5 (ft)	2.5 (ft)	2.5 (ft)	2.5 (ft)	
Chemical Name	Sample Name	2-OWS-B1(5.0)	2-OWS-B2(5.0)	2-OWS-S1(2.5)	2-OWS-S2(3.0)	2-OWS-S3(3.25)	2-OWS-S4(3.25)	2-OWS-S8(2.5)	2-OWS-S9(2.5)	2-OWS-S10(2.5)	2-OWS-S11(2.5)	
Inorganic Compounds (mg/Kg)	Cadmium	< 0.44	< 0.50	< 0.44	< 0.46	< 0.50	< 0.48	< 0.47	-	-	-	39
	Chromium	59	51	57	56	52	47	64	-	-	-	120000 [a]
	Lead	7.5	6.9	5.1	5.2	6.4	5.9	7.2	-	-	-	80
	Nickel	86	74	65	69	71	67	73	-	-	-	820 [b]
	Zinc	44	40	35	35	37	34	38	-	-	-	23000
PCBs (mg/Kg)	Aroclor-1016 (PCB-1016)	< 0.049	< 0.050	< 0.050	< 0.049	< 0.050	< 0.049	< 0.049	-	-	-	0.25
	Aroclor-1221 (PCB-1221)	< 0.049	< 0.050	< 0.050	< 0.049	< 0.050	< 0.049	< 0.049	-	-	-	
	Aroclor-1232 (PCB-1232)	< 0.049	< 0.050	< 0.050	< 0.049	< 0.050	< 0.049	< 0.049	-	-	-	
	Aroclor-1242 (PCB-1242)	< 0.049	< 0.050	< 0.050	< 0.049	< 0.050	< 0.049	< 0.049	-	-	-	
	Aroclor-1248 (PCB-1248)	< 0.049	< 0.050	< 0.050	< 0.049	< 0.050	< 0.049	< 0.049	-	-	-	
	Aroclor-1254 (PCB-1254)	< 0.049	< 0.050	< 0.050	< 0.049	< 0.050	< 0.049	< 0.049	-	-	-	
	Aroclor-1260 (PCB-1260)	< 0.049	< 0.050	< 0.050	< 0.049	< 0.050	< 0.049	< 0.049	-	-	-	
Total Petroleum Hydrocarbons (mg/Kg)	Total Petroleum Hydrocarbons (C10-C28) DRO	1.2	< 0.99	9.6	1.7	3.6	2.2	< 0.99	< 0.99	2.7	2.9	230
	Total Petroleum Hydrocarbons (C5-C12) GRO	< 0.23	< 0.23	< 0.27	< 0.20	< 0.22	< 0.22	< 0.21	-	-	-	100
	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	< 50	< 50	< 50	< 50	< 50	< 49	< 49	< 50	< 50	< 50	5100
Volatile Organic Compounds (mg/Kg)	1,1,1,2-Tetrachloroethane	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.18
	1,1,1-Trichloroethane	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	7.8
	1,1,2,2-Tetrachloroethane	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.018
	1,1,2-Trichloroethane	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.07
	1,1-Dichloroethane	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.2
	1,1-Dichloroethene	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.55
	1,1-Dichloropropene	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	1,2,3-Trichlorobenzene	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	1,2,3-Trichloropropane	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	1,2,4-Trichlorobenzene	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	1.5
	1,2,4-Trimethylbenzene	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	1,2-Dibromo-3-chloropropane (DBCP)	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.0045
	1,2-Dibromoethane (Ethylene Dibromide)	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.00033
	1,2-Dichlorobenzene	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	1.6
	1,2-Dichloroethane	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.0045
	1,2-Dichloropropane	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.12
	1,3,5-Trimethylbenzene	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	1,3-Dichlorobenzene	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	7.4
	1,3-Dichloropropane	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.059
	1,4-Dichlorobenzene	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.59
	2,2-Dichloropropane	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	2-Butanone (Methyl Ethyl Ketone)	< 0.046	< 0.047	'< 0.053	< 0.040	< 0.044	< 0.043	< 0.042	-	-	-	-
	2-Chlorotoluene	< 0.0046	< 0.0047	< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	2-Hexanone	< 0.046	< 0.047	< 0.053	< 0.040	< 0.044	< 0.043	< 0.042	-	-	-	-
	2-Phenylbutane (sec-Butylbenzene)	< 0.0046	< 0.0047	< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	4-Chlorotoluene	< 0.0046	< 0.0047	< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	< 0.046	< 0.047	'< 0.053	< 0.040	< 0.044	< 0.043	< 0.042	-	-	-	-
	Acetone	< 0.046	< 0.047	'< 0.053	< 0.040	< 0.044	< 0.043	< 0.042	-	-	-	0.5
	Benzene	< 0.0046	< 0.0047	'< 0.053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.044
	Bromobenzene	< 0.0046	< 0.0047	'< 0.053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	Bromodichloromethane	< 0.0046	< 0.0047	'< 0.053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.52
	Bromoform	< 0.0046	< 0.0047	'< 0.053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	1.7
	Bromomethane (Methyl Bromide)	< 0.0093	< 0.0093	'< 0.011	< 0.0080	< 0.0088	< 0.0087	< 0.0085	-	-	-	0.3
	Carbon disulfide	< 0.0046	< 0.0047	< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	Carbon tetrachloride	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.048
	Chlorobenzene	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	1.5
	Chlorobromomethane	< 0.019	< 0.019	< 0.021	< 0.016	< 0.018	< 0.017	< 0.017	-	-	-	-
	Chloroethane	< 0.0093	< 0.0093	'< 0.011	< 0.0080	< 0.0088	< 0.0087	< 0.0085	-	-	-	1.1
	Chloroform (Trichloromethane)	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.068
	Chloromethane (Methyl Chloride)	< 0.0093	< 0.0093	'< 0.011	< 0.0080	< 0.0088	< 0.0087	< 0.0085	-	-	-	29
	cis-1,2-Dichloroethene	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.19
	cis-1,3-Dichloropropene	< 0.0046	< 0.0047	< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	Cymene (p-Isopropyltoluene)	< 0.0046	< 0.0047	< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	Dibromochloromethane	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	Dibromomethane	< 0.0093	< 0.0093	< 0.011	< 0.0080	< 0.0088	< 0.0087	< 0.0085	-	-	-	-
	Dichlorodifluoromethane (CFC-12)	< 0.0093	< 0.0093	< 0.011	< 0.0080	< 0.0088	< 0.0087	< 0.0085	-	-	-	-
	Ethylbenzene	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	1.4
	Hexachlorobutadiene	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.68
	Isopropylbenzene	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	Methyl Tert Butyl Ether	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.023
	Methylene chloride	< 0.0093	< 0.0093	'< 0.011	< 0.0080	< 0.0088	< 0.0087	< 0.0085	-	-	-	0.077
	Naphthalene	< 0.0093	< 0.0093	'< 0.011	< 0.0080	< 0.0088	< 0.0087	< 0.0085	-	-	-	0.033
	n-Butylbenzene	< 0.0046	< 0.0047	< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	n-Propylbenzene	< 0.0046	< 0.0047	< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	Styrene	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	1.5
	tert-Butylbenzene	< 0.0046	< 0.0047	< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	Tetrachloroethene	< 0.0046	< 0.0047	'< 0.0054	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.42
	Toluene	< 0.0046	< 0.0047	< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	2.9
	trans-1,2-Dichloroethene	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.67
	trans-1,3-Dichloropropene	< 0.0046	< 0.0047	< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	Trichloroethene	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	5
	Trichlorofluoromethane (CFC-11)	< 0.0046	< 0.0047	< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	Trifluorotrichloroethane (Freon 113)	< 0.0046	< 0.0047	< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	-
	Vinyl acetate	< 0.046	< 0.047	< 0.0053	< 0.040	< 0.044	< 0.043	< 0.042	-	-	-	-
	Vinyl chloride	< 0.0046	< 0.0047	'< 0.0053	< 0.0040	< 0.0044	< 0.0043	< 0.0042	-	-	-	0.0082
	Xylene (total)	< 0.0093	< 0.0093	< 0.011	< 0.0080	< 0.0088	< 0.0087	< 0.0085	-	-	-	2.3

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

a = ESL for Chromium III
b = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 13
AOC 2 – WASH RACK EXCAVATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

	Location	Wash Rack				Wash Rack Drop Inlets			Action Levels
	Sample Date	10/17/2013	10/17/2013	10/17/2013	11/12/2013	11/27/2013	11/27/2013	11/27/2013	
	Sample Depth (bgs)	Surface	Surface	Surface	2 (ft)	3 (ft)	5 (ft)	6 (ft)	SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)
Chemical Name	Sample Name	2-WR-1	2-WR-2	2-WR-4	2-WR-5(2.0)	2-WR-DI-1-B2(3.0)	2-WR-DI-2-B1(5.0)	2-WR-DI-3-B1(6.0)	
Inorganic Compounds	Cadmium	< 0.49	< 0.46	< 0.35	< 0.50	< 0.41	< 0.50	< 0.43	**39**
	Chromium	55	61	54	59	41	37	38	**120000** [a]
	Lead	6.8	9.9	8.0	7.6	6.8	4.5	5.9	**80**
	Nickel	75	82	70	85	71	64	71	**820** [b]
	Zinc	38	43	41	47	36	34	32	**23000**
PCBs	Aroclor-1016 (PCB-1016)	< 0.049	< 0.049	< 0.049	-	-	< 0.050	< 0.050	
	Aroclor-1221 (PCB-1221)	< 0.049	< 0.049	< 0.049	-	-	< 0.050	< 0.050	
	Aroclor-1232 (PCB-1232)	< 0.049	< 0.049	< 0.049	-	-	< 0.050	< 0.050	
	Aroclor-1242 (PCB-1242)	< 0.049	< 0.049	< 0.049	-	-	< 0.050	< 0.050	
	Aroclor-1248 (PCB-1248)	< 0.049	< 0.049	< 0.049	-	-	< 0.050	< 0.050	
	Aroclor-1254 (PCB-1254)	< 0.049	< 0.049	< 0.049	-	-	< 0.050	< 0.050	
	Aroclor-1260 (PCB-1260)	< 0.049	< 0.049	< 0.049	-	-	< 0.050	< 0.050	**0.25**
Semi-Volatile Organic Compounds (SIM)	Acenaphthene	< 0.0050	< 0.0050	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	**16**
	Acenaphthylene	< 0.0050	< 0.0050	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	**13**
	Anthracene	< 0.0050	< 0.0050	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	**-**
	Benzo(a)anthracene	< 0.0050	< 0.0050	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	**0.16**
	Benzo(a)pyrene	< 0.0050	< 0.0050	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	**0.016**
	Benzo(b)fluoranthene	< 0.0050	< 0.0050	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	**0.16**
	Benzo(g,h,i)perylene	< 0.0050	< 0.0050	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	**2.5**
	Benzo(k)fluoranthene	< 0.0050	< 0.0050	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	**1.6**
	Chrysene	< 0.0050	< 0.0050	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	**3.8**
	Dibenz(a,h)anthracene	< 0.0050	< 0.0050	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	**0.016**
	Fluoranthene	< 0.0050	< 0.0050	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	**60**
	Fluorene	< 0.0050	< 0.0050	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	**8.9**
	Indeno(1,2,3-cd)pyrene	< 0.0050	< 0.0050	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	**0.16**
	Naphthalene	< 0.0050	< 0.0050	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	**0.033**
	Phenanthrene	< 0.0050	< 0.0050	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	**11**
	Pyrene	< 0.0050	< 0.0050	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	**85**
Total Petroleum Hydrocarbons	Total Petroleum Hydrocarbons (C10-C28) DRO	16	4.5	17	1.3	< 0.99	< 0.99	< 1.0	**230**
	Total Petroleum Hydrocarbons (C5-C12) GRO	-	-	-	-	-	< 0.27	< 0.31	**100**
	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	55	< 49	< 50	< 50	< 49	< 50	< 50	**5100**
Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.18**
	1,1,1-Trichloroethane	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**7.8**
	1,1,2,2-Tetrachloroethane	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.018**
	1,1,2-Trichloroethane	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.07**
	1,1-Dichloroethane	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.2**
	1,1-Dichloroethene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.55**
	1,1-Dichloropropene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	1,2,3-Trichlorobenzene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	1,2,3-Trichloropropane	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	1,2,4-Trichlorobenzene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**1.5**
	1,2,4-Trimethylbenzene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	1,2-Dibromo-3-chloropropane (DBCP)	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.0045**
	1,2-Dibromoethane (Ethylene Dibromide)	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.00033**
	1,2-Dichlorobenzene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**1.6**
	1,2-Dichloroethane	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.0045**
	1,2-Dichloropropane	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.12**
	1,3,5-Trimethylbenzene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	1,3-Dichlorobenzene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**7.4**
	1,3-Dichloropropane	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.059**
	1,4-Dichlorobenzene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.59**
	2,2-Dichloropropane	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	2-Butanone (Methyl Ethyl Ketone)	< 0.047	< 0.049	< 0.048	-	-	< 0.054	< 0.061	**-**
	2-Chlorotoluene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	2-Hexanone	< 0.047	< 0.049	< 0.048	-	-	< 0.054	< 0.061	**-**
	2-Phenylbutane (sec-Butylbenzene)	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	4-Chlorotoluene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	< 0.047	< 0.049	< 0.048	-	-	< 0.054	< 0.061	**-**
	Acetone	< 0.047	< 0.049	< 0.048	-	-	< 0.054	< 0.061	**0.5**
	Benzene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.044**
	Bromobenzene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	Bromodichloromethane	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.52**
	Bromoform	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**1.7**
	Bromomethane (Methyl Bromide)	< 0.0094	< 0.0098	< 0.0097	-	-	< 0.011	< 0.012	**0.3**
	Carbon disulfide	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	Carbon tetrachloride	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.048**
	Chlorobenzene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**1.5**
	Chlorobromomethane	< 0.019	< 0.020	< 0.019	-	-	< 0.021	< 0.024	**-**
	Chloroethane	< 0.0094	< 0.0098	< 0.0097	-	-	< 0.011	< 0.012	**1.1**
	Chloroform (Trichloromethane)	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.068**
	Chloromethane (Methyl Chloride)	< 0.0094	< 0.0098	< 0.0097 *	-	-	< 0.011	< 0.012	**29**
	cis-1,2-Dichloroethene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.19**
	cis-1,3-Dichloropropene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	Cymene (p-Isopropyltoluene)	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	Dibromochloromethane	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	Dibromomethane	< 0.0094	< 0.0098	< 0.0097	-	-	< 0.011	< 0.012	**-**
	Dichlorodifluoromethane (CFC-12)	< 0.0094	< 0.0098	< 0.0097	-	-	< 0.011	< 0.012	**-**
	Ethylbenzene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**1.4**
	Hexachlorobutadiene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.68**
	Isopropylbenzene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	Methyl Tert Butyl Ether	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.023**

TABLE 13
AOC 2 – WASH RACK EXCAVATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

	Location	Wash Rack				Wash Rack Drop Inlets			Action Levels
	Sample Date	10/17/2013	10/17/2013	10/17/2013	11/12/2013	11/27/2013	11/27/2013	11/27/2013	
	Sample Depth (bgs)	Surface	Surface	Surface	2 (ft)	3 (ft)	5 (ft)	6 (ft)	SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)
Chemical Name	Sample Name	2-WR-1	2-WR-2	2-WR-4	2-WR-5(2.0)	2-WR-DI-1-B2(3.0)	2-WR-DI-2-B1(5.0)	2-WR-DI-3-B1(6.0)	
Volatile Organic Compounds	Methylene chloride	< 0.0094	< 0.0098	< 0.0097	-	-	< 0.011	< 0.012	**0.077**
	Naphthalene	< 0.0094	< 0.0098	< 0.0097	-	-	< 0.011	< 0.012	**0.033**
	n-Butylbenzene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	n-Propylbenzene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	Styrene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**1.5**
	tert-Butylbenzene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	Tetrachloroethene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.42**
	Toluene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**2.9**
	trans-1,2-Dichloroethene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.67**
	trans-1,3-Dichloropropene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	Trichloroethene	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**5**
	Trichlorofluoromethane (CFC-11)	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	Trifluorotrichloroethane (Freon 113)	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**-**
	Vinyl acetate	< 0.047	< 0.049	< 0.048	-	-	< 0.054	< 0.061	**-**
	Vinyl chloride	< 0.0047	< 0.0049	< 0.0048	-	-	< 0.0054	< 0.0061	**0.0082**
	Xylene (total)	< 0.0094	< 0.0098	< 0.0097	-	-	< 0.011	< 0.012	**2.3**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

a = ESL for Chromium III
b = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 14
AOC 2 - FUEL LINE EXCAVATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Inorganic Compounds	SVOCs	Total Petroleum Hydrocarbons			Volatile Organic Compounds (mg/Kg)					
Location	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Sample Name**	**Lead**	**Naphthalene**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C5-C12) GRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**	**1,1,1,2-Tetrachloroethane**	**1,1,1-Trichloroethane**	**1,1,2,2-Tetrachloroethane**	**1,1,2-Trichloroethane**	**1,1-Dichloroethane**	**1,1-Dichloroethene**
Fuel Line	09/27/2013	Bottom	2.9	**PL-B5(2.9)**	8.8	0.016	50	< 0.21	< 50	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043
	09/30/2013	Bottom	3.3	**PL-B9 (3.3)**	6.3	< 0.0099	36	< 0.21	160	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041
	09/30/2013	Bottom	3	**PL-B17 (3.0)**	7.1	< 0.005	2.1	< 0.2	< 50	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	09/30/2013	Bottom	3.1	**PL-B18 (3.1)**	6.8	< 0.0049	50	< 0.25	< 49	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/01/2013	Bottom	3.1	**PL-B27(3.1)**	4.6	< 0.005	< 0.99	< 0.23	< 49	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045
	10/01/2013	Bottom	2.9	**PL-B28(2.9)**	4.8	< 0.005	1.8	< 0.2	< 50	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	10/01/2013	Bottom	2.2	**PL-B29(2.2)**	6.2	0.016	2.7	< 0.2	< 50	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	10/01/2013	Bottom	2.1	**PL-B30(2.1)**	14	< 0.005	32	< 0.19	73	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038
	10/01/2013	Bottom	2.1	**PL-B31(2.1)**	7.1	< 0.005	45	< 0.18	< 49	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036
	10/01/2013	Bottom	1.9	**PL-B32(1.9)**	8.3	< 0.0049	53	< 0.17	100	< 0.0034	< 0.0034	< 0.0034 *	< 0.0034	< 0.0034	< 0.0034
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)						**0.033**	**230**	**100**	**5100**	**0.01**	**7.8**	**0.018**	**0.07**	**0.2**	**0.55**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 14
AOC 2 - FUEL LINE EXCAVATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Volatile Organic Compounds (mg/Kg)												
Location	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Sample Name**	**1,1-Dichloropropene**	**1,2,3-Trichlorobenzene**	**1,2,3-Trichloropropane**	**1,2,4-Trichlorobenzene**	**1,2,4-Trimethylbenzene**	**1,2-Dibromo-3-chloropropane (DBCP)**	**1,2-Dibromoethane (Ethylene Dibromide)**	**1,2-Dichlorobenzene**	**1,2-Dichloroethane**	**1,2-Dichloropropane**	**1,3,5-Trimethylbenzene**	**1,3-Dichlorobenzene**	**1,3-Dichloropropane**
Fuel Line	09/27/2013	Bottom	2.9	**PL-B5(2.9)**	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043
	09/30/2013	Bottom	3.3	**PL-B9 (3.3)**	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041
	09/30/2013	Bottom	3	**PL-B17 (3.0)**	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	09/30/2013	Bottom	3.1	**PL-B18 (3.1)**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/01/2013	Bottom	3.1	**PL-B27(3.1)**	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045
	10/01/2013	Bottom	2.9	**PL-B28(2.9)**	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	10/01/2013	Bottom	2.2	**PL-B29(2.2)**	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	10/01/2013	Bottom	2.1	**PL-B30(2.1)**	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038
	10/01/2013	Bottom	2.1	**PL-B31(2.1)**	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036
	10/01/2013	Bottom	1.9	**PL-B32(1.9)**	< 0.0034	< 0.0034 *	< 0.0034 *	< 0.0034 *	< 0.0034 *	< 0.0034 *	< 0.0034	< 0.0034 *	< 0.0034	< 0.0034	< 0.0034 *	< 0.0034 *	< 0.0034
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**-**	**-**	**-**	**1.5**	**-**	**0.0045**	**0.00033**	**1.6**	**0.0045**	**0.12**	**-**	**7.4**	**-**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 E

TABLE 14
AOC 2 - FUEL LINE EXCAVATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Volatile Organic Compounds (mg/Kg)												
Location	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Sample Name**	**1,4-Dichlorobenzene**	**2,2-Dichloropropane**	**2-Butanone (Methyl Ethyl Ketone)**	**2-Chlorotoluene**	**2-Hexanone**	**2-Phenylbutane (sec-Butylbenzene)**	**4-Chlorotoluene**	**4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)**	**Acetone**	**Benzene**	**Bromobenzene**	**Bromodichloromethane**	**Bromoform**
Fuel Line	09/27/2013	Bottom	2.9	**PL-B5(2.9)**	< 0.0043	< 0.0043	< 0.043	< 0.0043	< 0.043	< 0.0043	< 0.0043	< 0.043	< 0.043	< 0.0043	< 0.0043	< 0.0043	< 0.0043
	09/30/2013	Bottom	3.3	**PL-B9 (3.3)**	< 0.0041	< 0.0041	< 0.041	< 0.0041	< 0.041	< 0.0041	< 0.0041	< 0.041	< 0.041	< 0.0041	< 0.0041	< 0.0041	< 0.0041
	09/30/2013	Bottom	3	**PL-B17 (3.0)**	< 0.004	< 0.004	< 0.04	< 0.004	< 0.04	< 0.004	< 0.004	< 0.04	< 0.04	< 0.004	< 0.004	< 0.004	< 0.004
	09/30/2013	Bottom	3.1	**PL-B18 (3.1)**	< 0.005	< 0.005	< 0.05	< 0.005	< 0.05	< 0.005	< 0.005	< 0.05	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005
	10/01/2013	Bottom	3.1	**PL-B27(3.1)**	< 0.0045	< 0.0045	< 0.045	< 0.0045	< 0.045	< 0.0045	< 0.0045	< 0.045	< 0.045	< 0.0045	< 0.0045	< 0.0045	< 0.0045
	10/01/2013	Bottom	2.9	**PL-B28(2.9)**	< 0.004	< 0.004	< 0.04	< 0.004	< 0.04	< 0.004	< 0.004	< 0.04	< 0.04	< 0.004	< 0.004	< 0.004	< 0.004
	10/01/2013	Bottom	2.2	**PL-B29(2.2)**	< 0.004	< 0.004	< 0.04	< 0.004	< 0.04	< 0.004	< 0.004	< 0.04	< 0.04	< 0.004	< 0.004	< 0.004	< 0.004
	10/01/2013	Bottom	2.1	**PL-B30(2.1)**	< 0.0038	< 0.0038	< 0.038	< 0.0038	< 0.038	< 0.0038	< 0.0038	< 0.038	< 0.038	< 0.0038	< 0.0038	< 0.0038	< 0.0038
	10/01/2013	Bottom	2.1	**PL-B31(2.1)**	< 0.0036	< 0.0036	< 0.036	< 0.0036	< 0.036	< 0.0036	< 0.0036	< 0.036	< 0.036	< 0.0036	< 0.0036	< 0.0036	< 0.0036
	10/01/2013	Bottom	1.9	**PL-B32(1.9)**	< 0.0034 *	< 0.0034	< 0.034	< 0.0034 *	< 0.034	< 0.0034 *	< 0.0034 *	< 0.034	< 0.034	< 0.0034	< 0.0034 *	< 0.0034	< 0.0034
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**0.59**	**-**	**5.1**	**-**	**-**	**-**	**-**	**2.8**	**0.5**	**0.044**	**-**	**0.52**	**1.7**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 E

TABLE 14
AOC 2 - FUEL LINE EXCAVATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Volatile Organic Compounds (mg/Kg)													
Location	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Sample Name**	**Bromomethane (Methyl Bromide)**	**Carbon disulfide**	**Carbon tetrachloride**	**Chlorobenzene**	**Chlorobromomethane**	**Chloroethane**	**Chloroform (Trichloromethane)**	**Chloromethane (Methyl Chloride)**	**cis-1,2-Dichloroethene**	**cis-1,3-Dichloropropene**	**Cymene (p-Isopropyltoluene)**	**Dibromochloromethane**	**Dibromomethane**	**Dichlorodifluoromethane (CFC-12)**
Fuel Line	09/27/2013	Bottom	2.9	**PL-B5(2.9)**	< 0.0086	< 0.0043	< 0.0043	< 0.0043	< 0.017	< 0.0086	< 0.0043	< 0.0086	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0086	< 0.0086
	09/30/2013	Bottom	3.3	**PL-B9 (3.3)**	< 0.0083	< 0.0041	< 0.0041	< 0.0041	< 0.017	< 0.0083	< 0.0041	< 0.0083	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0083	< 0.0083
	09/30/2013	Bottom	3	**PL-B17 (3.0)**	< 0.0079	< 0.004	< 0.004	< 0.004	< 0.016	< 0.0079	< 0.004	< 0.0079	< 0.004	< 0.004	< 0.004	< 0.004	< 0.0079	< 0.0079
	09/30/2013	Bottom	3.1	**PL-B18 (3.1)**	< 0.01	< 0.005	< 0.005	< 0.005	< 0.02	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.01
	10/01/2013	Bottom	3.1	**PL-B27(3.1)**	< 0.0091	< 0.0045	< 0.0045	< 0.0045	< 0.018	< 0.0091	< 0.0045	< 0.0091	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0091	< 0.0091
	10/01/2013	Bottom	2.9	**PL-B28(2.9)**	< 0.008	< 0.004	< 0.004	< 0.004	< 0.016	< 0.008	< 0.004	< 0.008	< 0.004	< 0.004	< 0.004	< 0.004	< 0.008	< 0.008
	10/01/2013	Bottom	2.2	**PL-B29(2.2)**	< 0.008	< 0.004	< 0.004	< 0.004	< 0.016	< 0.008	< 0.004	< 0.008	< 0.004	< 0.004	< 0.004	< 0.004	< 0.008	< 0.008
	10/01/2013	Bottom	2.1	**PL-B30(2.1)**	< 0.0075	< 0.0038	< 0.0038	< 0.0038	< 0.015	< 0.0075	< 0.0038	< 0.0075	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0075	< 0.0075
	10/01/2013	Bottom	2.1	**PL-B31(2.1)**	< 0.0072	< 0.0036	< 0.0036	< 0.0036	< 0.014	< 0.0072	< 0.0036	< 0.0072	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0072	< 0.0072
	10/01/2013	Bottom	1.9	**PL-B32(1.9)**	< 0.0067	< 0.0034	< 0.0034	< 0.0034	< 0.013	< 0.0067	< 0.0034	< 0.0067	< 0.0034	< 0.0034	< 0.0034 *	< 0.0034	< 0.0067	< 0.0067
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**0.3**	**-**	**0.048**	**1.5**	**-**	**1.1**	**0.068**	**29**	**0.19**	**-**	**-**	**3.8**	**-**	**-**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 E

TABLE 14
AOC 2 - FUEL LINE EXCAVATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Volatile Organic Compounds (mg/Kg)															
Location	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Sample Name**	**Ethylbenzene**	**Hexachlorobutadiene**	**Isopropylbenzene**	**Methyl Tert Butyl Ether**	**Methylene chloride**	**Naphthalene**	**n-Butylbenzene**	**n-Propylbenzene**	**Styrene**	**tert-Butylbenzene**	**Tetrachloroethene**	**Toluene**	**trans-1,2-Dichloroethene**	**trans-1,3-Dichloropropene**	**Trichloroethene**
Fuel Line	09/27/2013	Bottom	2.9	**PL-B5(2.9)**	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0086	< 0.0086	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043	< 0.0043
	09/30/2013	Bottom	3.3	**PL-B9 (3.3)**	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0083	< 0.0083	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041	< 0.0041
	09/30/2013	Bottom	3	**PL-B17 (3.0)**	< 0.004	< 0.004	< 0.004	< 0.004	< 0.0079	< 0.0079	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	09/30/2013	Bottom	3.1	**PL-B18 (3.1)**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/01/2013	Bottom	3.1	**PL-B27(3.1)**	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0091	< 0.0091	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045
	10/01/2013	Bottom	2.9	**PL-B28(2.9)**	< 0.004	< 0.004	< 0.004	< 0.004	< 0.008	< 0.008	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	10/01/2013	Bottom	2.2	**PL-B29(2.2)**	< 0.004	< 0.004	< 0.004	< 0.004	< 0.008	< 0.008	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	10/01/2013	Bottom	2.1	**PL-B30(2.1)**	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0075	< 0.0075	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038
	10/01/2013	Bottom	2.1	**PL-B31(2.1)**	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0072	< 0.0072	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036	< 0.0036
	10/01/2013	Bottom	1.9	**PL-B32(1.9)**	< 0.0034	< 0.0034 *	< 0.0034	< 0.0034	< 0.0067	< 0.0067 *	< 0.0034 *	< 0.0034 *	< 0.0034	< 0.0034 *	< 0.0034	< 0.0034	< 0.0034	< 0.0034	< 0.0034
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**1.4**	**0.68**	**-**	**0.023**	**0.077**	**0.033**	**-**	**-**	**1.5**	**-**	**0.42**	**2.9**	**100**	**0.67**	**-**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 E

TABLE 14
AOC 2 - FUEL LINE EXCAVATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Volatile Organic Compounds (mg/Kg)				
Location	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Sample Name**	**Trichlorofluoromethane (CFC-11)**	**Trifluorotrichloroethane (Freon 113)**	**Vinyl acetate**	**Vinyl chloride**	**Xylene (total)**
Fuel Line	09/27/2013	Bottom	2.9	**PL-B5(2.9)**	< 0.0043	< 0.0043	< 0.043	< 0.0043	< 0.0086
	09/30/2013	Bottom	3.3	**PL-B9 (3.3)**	< 0.0041	< 0.0041	< 0.041	< 0.0041	< 0.0083
	09/30/2013	Bottom	3	**PL-B17 (3.0)**	< 0.004	< 0.004	< 0.04	< 0.004	< 0.0079
	09/30/2013	Bottom	3.1	**PL-B18 (3.1)**	< 0.005	< 0.005	< 0.05	< 0.005	< 0.01
	10/01/2013	Bottom	3.1	**PL-B27(3.1)**	< 0.0045	< 0.0045	< 0.045	< 0.0045	< 0.0091
	10/01/2013	Bottom	2.9	**PL-B28(2.9)**	< 0.004	< 0.004	< 0.04	< 0.004	< 0.008
	10/01/2013	Bottom	2.2	**PL-B29(2.2)**	< 0.004	< 0.004	< 0.04	< 0.004	< 0.008
	10/01/2013	Bottom	2.1	**PL-B30(2.1)**	< 0.0038	< 0.0038	< 0.038	< 0.0038	< 0.0075
	10/01/2013	Bottom	2.1	**PL-B31(2.1)**	< 0.0036	< 0.0036	< 0.036	< 0.0036	< 0.0072
	10/01/2013	Bottom	1.9	**PL-B32(1.9)**	< 0.0034	< 0.0034	< 0.034	< 0.0034	< 0.0067
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**0.46**	**-**	**-**	**0.0082**	**2.3**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 E

TABLE 15
AOC 2 - FUEL LINE EXCAVATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Inorganic Compounds (mg/Kg)	SVOCs (mg/Kg)	Total Petroleum Hydrocarbons (mg/Kg)		
Location	**Sample Date**	**Sample Type**	**Sample Depth (bgs)**	**Sample Name**	**Lead**	**Naphthalene**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C5-C12) GRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**
Fuel Line	12/11/2013	Bottom	6 (ft)	**PL-B34(6.0)**	8.7	< 0.005	5.8	< 0.24	< 49
	12/11/2013	Bottom	6 (ft)	**PL-B35(6.0)**	8	< 0.005	3.6	< 0.25	< 50
	12/11/2013	Bottom	6 (ft)	**PL-B36(6.0)**	9.1	< 0.005	< 0.99	< 0.25	< 50
	12/11/2013	Bottom	7 (ft)	**PL-B38(7.0)**	7.2	< 0.005	< 0.98	< 0.25	< 49
	12/11/2013	Bottom	5 (ft)	**PL-B39(5.0)**	4.4	0.0065	6	< 0.25	< 49
	12/11/2013	Bottom	6 (ft)	**PL-B41(6.0)**	5	< 0.005	< 0.99	< 0.22	< 49
	12/11/2013	Bottom	5.5 (ft)	**PL-B45(5.5)**	8.8	0.013	77	< 0.23	< 50
	12/11/2013	Bottom	6 (ft)	**PL-B46(6.0)**	7.2	0.0053	53	< 0.24	84
	01/07/2014	Bottom	6 (ft)	**PL-B47(6)**	-	**-**	22	**-**	< 49
	01/07/2014	Bottom	8 (ft)	**PL-B48(8)**	-	**-**	2.0	**-**	< 50
	01/07/2014	Bottom	8 (ft)	**PL-B49(8)**	-	**-**	23	**-**	< 50
	01/07/2014	Bottom	8 (ft)	**PL-B50(8)**	-	**-**	< 0.99	**-**	< 50
	01/07/2014	Bottom	8 (ft)	**PL-B51(8)**	-	**-**	2.2	**-**	< 50
	1/17/2014	Bottom	10 (ft)	**PL-B52(10)**	-	**-**	3.7	**-**	< 50
	12/11/2013	Sidewall	2 (ft)	**PL-S1(2.0)**	4.5	< 0.0049	1.6	< 0.24	< 50
	12/11/2013	Sidewall	2 (ft)	**PL-S2(2.0)**	8	< 0.0049	18	< 0.23	< 50
	12/11/2013	Sidewall	2 (ft)	**PL-S3(2.0)**	8.8	< 0.0099	34	< 0.22	93
	12/11/2013	Sidewall	2 (ft)	**PL-S4(2.0)**	7.4	0.0055	15	< 0.25	< 49
	12/11/2013	Sidewall	2 (ft)	**PL-S5(2.0)**	5.6	< 0.005	< 1	< 0.25	< 50
	12/11/2013	Sidewall	3 (ft)	**PL-S6(3.0)**	10	0.024	4.9	< 0.25	< 49
	12/11/2013	Sidewall	4 (ft)	**PL-S7(4.0)**	9.3	< 0.005	< 0.99	< 0.24	< 49
	12/11/2013	Sidewall	2 (ft)	**PL-S10(2.0)**	7.3	< 0.0049	5.6	< 0.21	< 49
	12/11/2013	Sidewall	2 (ft)	**PL-S11(2.0)**	13	< 0.0049	2.4	< 0.25	< 49
	12/11/2013	Sidewall	4 (ft)	**PL-S13(4.0)**	9	< 0.005	< 0.99	< 0.24	< 50
	12/11/2013	Sidewall	4 (ft)	**PL-S14(4.0)**	9.4	< 0.005	23	< 0.25	< 49
	12/11/2013	Sidewall	3 (ft)	**PL-S15(3.0)**	9.2	< 0.0049	< 0.99	< 0.21	< 49
	12/11/2013	Sidewall	4 (ft)	**PL-S16(4.0)**	9.3	< 0.0049	< 0.99	< 0.24	< 50
	12/11/2013	Sidewall	3 (ft)	**PL-S17(3.0)**	11	< 0.005	4.5	< 0.25	< 49
	12/11/2013	Sidewall	3 (ft)	**PL-S18(3.0)**	8.7	< 0.0049	1.3	< 0.25	< 49
	12/11/2013	Sidewall	2.5 (ft)	**PL-S19(2.5)**	10	< 0.005	< 1	< 0.22 *	< 50
	12/11/2013	Sidewall	3 (ft)	**PL-S20(3.0)**	6.4	< 0.005	7.7	< 0.25	< 50
	12/11/2013	Sidewall	3.5 (ft)	**PL-S21(3.5)**	9.6	< 0.0049	2	< 0.24	< 50
	12/11/2013	Sidewall	3 (ft)	**PL-S22(3.0)**	7.4	< 0.005	35	< 0.24	< 50
	12/11/2013	Sidewall	3 (ft)	**PL-S23(3.0)**	8.5	< 0.0049	< 1	< 0.25	< 50
	12/11/2013	Sidewall	3 (ft)	**PL-S26(3.0)**	8.2	< 0.005	65	< 0.24	220
	12/11/2013	Sidewall	3.5 (ft)	**PL-S27(3.5)**	8.2	< 0.01	52	< 0.23	150
	12/11/2013	Sidewall	3 (ft)	**PL-S28(3.0)**	8.5	< 0.005	13	< 0.24	< 49
	12/11/2013	Sidewall	3.5 (ft)	**PL-S29(3.5)**	3.2	< 0.025	70	< 0.24	150
	12/11/2013	Sidewall	3 (ft)	**PL-S30(3.0)**	6.6	< 0.005	2.7	< 0.22	< 50
	12/11/2013	Sidewall	2.5 (ft)	**PL-S31(2.5)**	6.1	< 0.005	5.8	< 0.23	< 50
	12/11/2013	Sidewall	3 (ft)	**PL-S32(3.0)**	5	< 0.005	< 0.99	< 0.25	< 50
	12/11/2013	Sidewall	1.5 (ft)	**PL-S33(1.5)**	5.6	< 0.005	1.6	< 0.23	< 49
	12/11/2013	Sidewall	2 (ft)	**PL-S34(2.0)**	5.7	< 0.0049	2.4	< 0.25	< 49
	12/11/2013	Sidewall	2 (ft)	**PL-S36(2.0)**	7.4	< 0.005	7.4	< 0.23	< 50
	12/11/2013	Sidewall	3 (ft)	**PL-S37(3.0)**	8.2	< 0.0049	6	< 0.24	< 50
	12/11/2013	Sidewall	4 (ft)	**PL-S38(4.0)**	35	0.015	67	-	75
	01/07/2014	Sidewall	5 (ft)	**PL-S40(5)**	-	-	3.2	-	< 50
	01/07/2014	Sidewall	5 (ft)	**PL-S41(5)**	-	< 0.0050	4.5	-	< 50
	01/07/2014	Sidewall	3 (ft)	**PL-S42(3)**	-	< 0.0049	< 1.0	-	< 50
	01/07/2014	Sidewall	2 (ft)	**PL-S43(2)**	-	-	1.9	-	< 49
	01/07/2014	Sidewall	3 (ft)	**PL-S44(3)**	-	-	20	-	60
	01/07/2014	Sidewall	2 (ft)	**PL-S45(2)**	-	-	37	-	82
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**80**	**0.033**	**230**	**100**	**5100**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

TABLE 16
AOC 3, SUBSET AREA 1, FHARF 1, TRANSFORMERS (3)
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

		Boring Designation	FHARF-1						Action Levels
		Sample Identification	FHARF-1-1	FHARF-1-1	FHARF-1-1	FHARF-1-3	FHARF-1-3	FHARF-1-3	SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)
		Sample Date	07/02/2013	07/02/2013	07/02/2013	07/02/2013	07/02/2013	07/02/2013	
		Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	
	Chemical Name	Sample Depth (feet bgs)	10	2	5	10	2	5	
PCBs (µg/Kg)	Aroclor-1016 (PCB-1016)		< 49	< 49	< 50	< 50	< 49	< 49	250
	Aroclor-1221 (PCB-1221)		< 49	< 49	< 50	< 50	< 49	< 49	
	Aroclor-1232 (PCB-1232)		< 49	< 49	< 50	< 50	< 49	< 49	
	Aroclor-1242 (PCB-1242)		< 49	< 49	< 50	< 50	< 49	< 49	
	Aroclor-1248 (PCB-1248)		< 49	< 49	< 50	< 50	110	< 49	
	Aroclor-1254 (PCB-1254)		< 49	< 49	< 50	< 50	< 49	< 49	
	Aroclor-1260 (PCB-1260)		< 49	< 49	< 50	< 50	< 49	< 49	
Total Petroleum Hydrocarbons (mg/Kg)	Total Petroleum Hydrocarbons (C24-C36) Motor Oil		< 50	< 50	< 50	< 50	< 50	< 50	5100

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

TABLE 17
AOC 3, SUBSET AREA 1, FHARF 2, TRANSFORMER (1)
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

		Boring Designation	FHARF-2			Action Levels
		Sample Identification	FHARF-2-1	FHARF-2-1	FHARF-2-1	SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)
		Sample Date	06/24/2013	06/24/2013	06/24/2013	
		Sample Type	Primary	Primary	Primary	
	Chemical Name	Sample Depth (feet bgs)	10	2	5	
PCBs (µg/Kg)	Aroclor-1016 (PCB-1016)		< 50	< 49	< 49	250
	Aroclor-1221 (PCB-1221)		< 50	< 49	< 49	
	Aroclor-1232 (PCB-1232)		< 50	< 49	< 49	
	Aroclor-1242 (PCB-1242)		< 50	< 49	< 49	
	Aroclor-1248 (PCB-1248)		< 50	< 49	< 49	
	Aroclor-1254 (PCB-1254)		< 50	< 49	< 49	
	Aroclor-1260 (PCB-1260)		< 50	< 49	< 49	
Total Petroleum Hydrocarbons (mg/Kg)	Total Petroleum Hydrocarbons (C10-C28) DRO		21	< 0.99	< 0.99	230
	Total Petroleum Hydrocarbons (C24-C36) Motor Oil		66	< 50	< 50	5100

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

TABLE 18
AOC 3, SUBSET AREA 2, FHARF 4, FORMER PLANT LUBE STORAGE SHED AND WAREHOUSE
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Inorganic Compounds (mg/Kg)					Total Petroleum Hydrocarbons (mg/Kg)		
Boring Designation	**Sample Identification**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Cadmium**	**Chromium**	**Lead**	**Nickel**	**Zinc**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**	**Total Petroleum Hydrocarbons-Stoddard Solvent**
FHARF-4A	**FHARF-4A-1**	06/25/2013	Primary	10	< 0.49	89	11	130	69	3	< 50	< 1
	FHARF-4A-1	06/25/2013	Primary	2	< 0.47	83	7.2	120	54	< 0.99	< 50	< 0.99
	FHARF-4A-1	06/25/2013	Primary	5	< 0.5	84	8.8	160	57	< 0.99	< 50	< 0.99
	FHARF-4A-2	06/24/2013	Primary	10	< 0.49	90	8.4	130	60	< 0.99	< 50	< 0.99
	FHARF-4A-2	06/24/2013	Primary	2	< 0.45	56	7.5	77	53	16	< 50	< 0.99
	FHARF-4A-2	06/24/2013	Primary	5	< 0.48	98	9.8	160	64	1.6 B	< 49	< 0.99
	FHARF-4A-3	06/25/2013	Primary	10	< 0.47	91	8.8	180	60	< 1	< 50	< 1
	FHARF-4A-3	06/25/2013	Primary	2	< 0.48	100	11	150	68	< 0.99	< 49	< 0.99
	FHARF-4A-3	06/25/2013	Primary	5	< 0.48	98	9.1	190	61	1.4	< 49	< 0.98
	FHARF-4A-4	06/25/2013	Primary	10	< 0.5	90	10	120	69	1.3	< 50	< 0.99
	FHARF-4A-4	06/25/2013	Primary	2	< 0.47	86	9.6	120	64	2.6	< 50	< 0.99
	FHARF-4A-4	06/25/2013	Primary	5	< 0.47	83	8.6	160	58	< 0.99	< 49	< 0.99
FHARF-4B	**FHARF-4B-1**	06/24/2013	Primary	10	< 0.5	100	9.6	140	65	< 0.99	< 50	< 0.99
	FHARF-4B-1	06/24/2013	Primary	2	< 0.47	64	8.4	98	51	< 1	< 50	< 1
	FHARF-4B-1	06/24/2013	Primary	5	< 0.45	72	6.9	140	50	< 0.99	< 49	< 0.99
	FHARF-4B-2	06/24/2013	Primary	10	< 0.49	82	8.4	130	57	1.3	< 50	< 0.99
	FHARF-4B-2	06/24/2013	Primary	2	< 0.47	72	8.4	150	56	1.7	< 50	< 1
	FHARF-4B-2	06/24/2013	Primary	5	< 0.46	69	7.8	120	51	2.5	< 50	< 0.99
	FHARF-4B-2	06/24/2013	Duplicate	10	< 0.47	66	6.2	130	50	< 0.99	< 49	< 0.99
	FHARF-4B-3	06/24/2013	Primary	5	< 0.48	71	8.4	92	56	2.2	< 49	< 0.99
	FHARF-4B-3	06/24/2013	Primary	10	< 0.49	71	8.2	110	57	1.4	< 50	< 1
	FHARF-4B-3	06/24/2013	Primary	2	< 0.46	56	9.2	79	46	8.8	< 49	< 0.99
	FHARF-4B-4	06/24/2013	Primary	10	< 0.49	100	10	160	67	1.2	< 50	< 0.99
	FHARF-4B-4	06/24/2013	Primary	2	< 0.5	45	7.7	73	140	< 1	< 50	< 1
	FHARF-4B-4	06/24/2013	Primary	5	< 0.5	95	9.5	130	67	< 0.99	< 50	< 0.99
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**39**	**120000** [a]	**80**	**820** [b]	**23000**	**230**	**5100**	**100**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

a = ESL for Chromium III
b = ESL for Direct Exposure Human Health, Residential Shallow Soil

TABLE 19
AOC 3, SUBSET AREA 2, FHARF 5, POWER SUBSTATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					PCBs (µg/kg)							Total Petroleum Hydrocarbons (mg/Kg)	
Boring Designation	**Sample Identification**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Aroclor-1016 (PCB-1016)**	**Aroclor-1221 (PCB-1221)**	**Aroclor-1232 (PCB-1232)**	**Aroclor-1242 (PCB-1242)**	**Aroclor-1248 (PCB-1248)**	**Aroclor-1254 (PCB-1254)**	**Aroclor-1260 (PCB-1260)**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**
FHARF-5	**FHARF-5-1**	06/27/2013	Primary	10	< 49	< 49	< 49	< 49	< 49	< 49	< 49	1	< 50
	FHARF-5-1	06/27/2013	Primary	2	< 49	< 49	< 49	< 49	< 49	< 49	< 49	1.2	< 50
	FHARF-5-1	06/27/2013	Primary	5	< 49	< 49	< 49	< 49	< 49	< 49	< 49	1.7	< 49
	FHARF-5-2	06/27/2013	Primary	10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	1.5	< 50
	FHARF-5-2	06/27/2013	Primary	2	< 49	< 49	< 49	< 49	< 49	< 49	< 49	2.2	< 49
	FHARF-5-2	06/27/2013	Primary	5	< 49	< 49	< 49	< 49	< 49	< 49	< 49	< 0.99	< 49
	FHARF-5-3	06/27/2013	Primary	10	< 49	< 49	< 49	< 49	< 49	< 49	< 49	< 0.99	< 50
	FHARF-5-3	06/27/2013	Primary	2	< 49	< 49	< 49	< 49	< 49	< 49	< 49	5	< 49
	FHARF-5-3	06/27/2013	Primary	5	< 49	< 49	< 49	< 49	< 49	< 49	< 49	2.1	< 49
	FHARF-5-3	06/27/2013	Duplicate	5	< 50	< 50	< 50	< 50	< 50	< 50	< 50	1.2	< 50
	FHARF-5-4	06/27/2013	Primary	10	< 49	< 49	< 49	< 49	< 49	< 49	< 49	< 0.98	< 49
	FHARF-5-4	06/27/2013	Primary	2	< 49	< 49	< 49	< 49	< 49	< 49	< 49	2.1	< 49
	FHARF-5-4	06/27/2013	Primary	5	< 49	< 49	< 49	< 49	< 49	< 49	< 49	1.5	< 50
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**250**							**230**	**5100**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

TABLE 20
AOC 3, SUBSET AREA 2, FHARF 13, DRUMS
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Inorganic Compounds (mg/Kg)					Total Petroleum Hydrocarbons (mg/Kg)			Volatile Organic Compounds (µg/Kg)								
Boring Designation	**Sample Identification**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Cadmium**	**Chromium**	**Lead**	**Nickel**	**Zinc**	**Total Petroleum Hydrocarbons (C5-C12) GRO**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**	**1,1,1,2-Tetrachloroethane**	**1,1,1-Trichloroethane**	**1,1,2,2-Tetrachloroethane**	**1,1,2-Trichloroethane**	**1,1-Dichloroethane**	**1,1-Dichloroethene**	**1,1-Dichloropropene**	**1,2,3-Trichlorobenzene**	**1,2,3-Trichloropropane**	**1,2,4-Trichlorobenzene**
FHARF-13A	FHARF-13A-1	06/26/2013	Primary	10	< 0.5	88	9.6	140	65	< 190	1	< 49	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9
	FHARF-13A-1	06/26/2013	Primary	2	< 0.46	74	7.7	140	52	< 210	18	99	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2
	FHARF-13A-1	06/26/2013	Primary	5	< 0.47	94	9.4	160	66	< 180	3.3	< 50	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6
	FHARF-13A-2	06/26/2013	Primary	10	< 0.48	110	12	210	75	< 190	< 1	< 50	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7
	FHARF-13A-2	06/26/2013	Primary	2	< 0.48	54	6.5	100	45	< 190	1.8	< 50	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8
	FHARF-13A-2	06/26/2013	Primary	5	< 0.5	79	6.5	120	44	< 200	1	< 50	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	FHARF-13A-3	06/26/2013	Primary	10	< 0.46	94	9.7	160	63	< 200	1	< 50	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9
	FHARF-13A-3	06/26/2013	Primary	2	< 0.48	79	8.1	120	55	< 210	0.99	< 49	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2
	FHARF-13A-3	06/26/2013	Primary	5	< 0.47	110	9	130	59	< 210	31	110	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2
	FHARF-13A-4	06/26/2013	Primary	10	< 0.49	76	8.4	130	55	< 210	< 1	< 50	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1
	FHARF-13A-4	06/26/2013	Primary	2	< 0.46	73	8.1	120	53	< 190	1.3	< 50	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8
	FHARF-13A-4	06/26/2013	Primary	5	< 0.48	47	5.5	85	40	< 190	< 1	< 50	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9
FHARF-13B	FHARF-13B-1	06/27/2013	Primary	10	< 0.49	100	12	140	78	< 270	1.6	< 50	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4
	FHARF-13B-1	06/27/2013	Primary	2	< 0.49	96	10	150	67	< 210	< 1	< 50	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2
	FHARF-13B-1	06/27/2013	Primary	5	< 0.46	88	11	120	70	< 300	< 1	< 50	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9
	FHARF-13B-2	06/27/2013	Primary	10	< 0.5	100	12	150	78	< 190	1	< 50	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8
	FHARF-13B-2	06/27/2013	Primary	2	< 0.5	100	11	160	76	< 210	3.4	< 50	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1
	FHARF-13B-2	06/27/2013	Primary	5	< 0.46	84	9.8	110	67	< 210	< 0.99	< 49	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2
	FHARF-13B-3	06/27/2013	Primary	10	< 0.46	120	12	200	78	< 240	2.1	< 50	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
	FHARF-13B-3	06/27/2013	Primary	2	< 0.49	91	11	120	67	< 190	9.1	< 50	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8
	FHARF-13B-3	06/27/2013	Primary	5	< 0.5	87	8.9	120	62	< 220	1.3	< 50	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4
	FHARF-13B-4	06/26/2013	Primary	10	< 0.5	93	9.3	180	59	< 220	< 0.99	< 50	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3
	FHARF-13B-4	06/26/2013	Primary	2	< 0.48	65	8.3	94	61	< 240	2.7	< 50	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8
	FHARF-13B-4	06/26/2013	Primary	4.5	< 0.47	180	8.8	99	56	< 230	1.9	< 50	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**39**	**120000** [b]	**80**	**820** [c]	**23000**	**100**	**230**	**5100**	**10**	**7800**	**18**	**70**	**200**	**550**	-	-	-	1500

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

b = ESL for Chromium III
c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds ESL
Orange highlight indicates the reported quantity exceeds ESL

TABLE 20
AOC 3, SUBSET AREA 2, FHARF 13, DRUMS
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

Boring Designation	Sample Identification	Sample Date	Sample Type	Sample Depth (feet bgs)	Volatile Organic Compounds (µg/Kg)																		
					1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromoethane (Ethylene Dibromide)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (Methyl Ethyl Ketone)	2-Chlorotoluene	2-Hexanone	2-Phenylbutane (sec-Butylbenzene)	4-Chlorotoluene	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	Acetone	Benzene
FHARF-13A	FHARF-13A-1	06/26/2013	Primary	10	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 39	< 3.9	< 39	< 3.9	< 3.9	< 39	< 39	< 3.9
	FHARF-13A-1	06/26/2013	Primary	2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 42	< 4.2	< 42	< 4.2	< 4.2	< 42	< 42	< 4.2
	FHARF-13A-1	06/26/2013	Primary	5	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 36	< 3.6	< 36	< 3.6	< 3.6	< 36	< 36	< 3.6
	FHARF-13A-2	06/26/2013	Primary	10	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 37	< 3.7	< 37	< 3.7	< 3.7	< 37	< 37	< 3.7
	FHARF-13A-2	06/26/2013	Primary	2	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 38	< 3.8	< 38	< 3.8	< 3.8	< 38	< 38	< 3.8
	FHARF-13A-2	06/26/2013	Primary	5	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 40	< 4	< 40	< 4	< 4	< 40	< 40	< 4
	FHARF-13A-3	06/26/2013	Primary	10	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 39	< 3.9	< 39	< 3.9	< 3.9	< 39	< 39	< 3.9
	FHARF-13A-3	06/26/2013	Primary	2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 42	< 4.2	< 42	< 4.2	< 4.2	< 42	< 42	< 4.2
	FHARF-13A-3	06/26/2013	Primary	5	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 42	< 4.2	< 42	< 4.2	< 4.2	< 42	< 42	< 4.2
	FHARF-13A-4	06/26/2013	Primary	10	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 41	< 4.1	< 41	< 4.1	< 4.1	< 41	< 41	< 4.1
	FHARF-13A-4	06/26/2013	Primary	2	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 38	< 3.8	< 38	< 3.8	< 3.8	< 38	< 38	< 3.8
	FHARF-13A-4	06/26/2013	Primary	5	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 39	< 3.9	< 39	< 3.9	< 3.9	< 39	< 39	< 3.9
FHARF-13B	FHARF-13B-1	06/27/2013	Primary	10	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 54	< 5.4	< 54	< 5.4	< 5.4	< 54	< 54	< 5.4
	FHARF-13B-1	06/27/2013	Primary	2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 42	< 4.2	< 42	< 4.2	< 4.2	< 42	< 42	< 4.2
	FHARF-13B-1	06/27/2013	Primary	5	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 59	< 5.9	< 59	< 5.9	< 5.9	< 59	< 59	< 5.9
	FHARF-13B-2	06/27/2013	Primary	10	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 38	< 3.8	< 38	< 3.8	< 3.8	< 38	< 38	< 3.8
	FHARF-13B-2	06/27/2013	Primary	2	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 41	< 4.1	< 41	< 4.1	< 4.1	< 41	< 41	< 4.1
	FHARF-13B-2	06/27/2013	Primary	5	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 42	< 4.2	< 42	< 4.2	< 4.2	< 42	< 42	< 4.2
	FHARF-13B-3	06/27/2013	Primary	10	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 48	< 4.8	< 48	< 4.8	< 4.8	< 48	< 48	< 4.8
	FHARF-13B-3	06/27/2013	Primary	2	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 38	< 3.8	< 38	< 3.8	< 3.8	< 38	< 38	< 3.8
	FHARF-13B-3	06/27/2013	Primary	5	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 44	< 4.4	< 44	< 4.4	< 4.4	< 44	< 44	< 4.4
	FHARF-13B-4	06/26/2013	Primary	10	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 43	< 4.3	< 43	< 4.3	< 4.3	< 43	< 43	< 4.3
	FHARF-13B-4	06/26/2013	Primary	2	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 48	< 4.8	< 48	< 4.8	< 4.8	< 48	< 48	< 4.8
	FHARF-13B-4	06/26/2013	Primary	4.5	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 46	< 4.6	< 46	< 4.6	< 4.6	< 46	< 46	< 4.6
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					-	4.5	0.33	1600	4.5	120	-	7400	-	590	-	5100	-	-	-	-	2800	500	44

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from furth
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

b = ESL for Chromium III
c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds ESL
Orange highlight indicates the reported quantity exceeds ESL

TABLE 20
AOC 3, SUBSET AREA 2, FHARF 13, DRUMS
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

Boring Designation	Sample Identification	Sample Date	Sample Type	Sample Depth (feet bgs)	Volatile Organic Compounds (µg/Kg)																		
					Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane (Methyl Bromide)	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform (Trichloromethane)	Chloromethane (Methyl Chloride)	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene (p-Isopropyltoluene)	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane (CFC-12)	Ethylbenzene	Hexachlorobutadiene
FHARF-13A	FHARF-13A-1	06/26/2013	Primary	10	< 3.9	< 3.9	< 3.9	< 7.7	< 3.9	< 3.9	< 3.9	< 15	< 7.7	< 3.9	< 7.7	< 3.9	< 3.9	< 3.9	< 3.9	< 7.7	< 7.7	< 3.9	< 3.9
	FHARF-13A-1	06/26/2013	Primary	2	< 4.2	< 4.2	< 4.2	< 8.3	< 4.2	< 4.2	< 4.2	< 17	< 8.3	< 4.2	< 8.3	< 4.2	< 4.2	< 4.2	< 4.2	< 8.3	< 8.3	< 4.2	< 4.2
	FHARF-13A-1	06/26/2013	Primary	5	< 3.6	< 3.6	< 3.6	< 7.3	< 3.6	< 3.6	< 3.6	< 15	< 7.3	< 3.6	< 7.3	< 3.6	< 3.6	< 3.6	< 3.6	< 7.3	< 7.3	< 3.6	< 3.6
	FHARF-13A-2	06/26/2013	Primary	10	< 3.7	< 3.7	< 3.7	< 7.4	< 3.7	< 3.7	< 3.7	< 15	< 7.4	< 3.7	< 7.4	< 3.7	< 3.7	< 3.7	< 3.7	< 7.4	< 7.4	< 3.7	< 3.7
	FHARF-13A-2	06/26/2013	Primary	2	< 3.8	< 3.8	< 3.8	< 7.7	< 3.8	< 3.8	< 3.8	< 15	< 7.7	< 3.8	< 7.7	< 3.8	< 3.8	< 3.8	< 3.8	< 7.7	< 7.7	< 3.8	< 3.8
	FHARF-13A-2	06/26/2013	Primary	5	< 4	< 4	< 4	< 8	< 4	< 4	< 4	< 16	< 8	< 4	< 8	< 4	< 4	< 4	< 4	< 8	< 8	< 4	< 4
	FHARF-13A-3	06/26/2013	Primary	10	< 3.9	< 3.9	< 3.9	< 7.8	< 3.9	< 3.9	< 3.9	< 16	< 7.8	< 3.9	< 7.8	< 3.9	< 3.9	< 3.9	< 3.9	< 7.8	< 7.8	< 3.9	< 3.9
	FHARF-13A-3	06/26/2013	Primary	2	< 4.2	< 4.2	< 4.2	< 8.3	< 4.2	< 4.2	< 4.2	< 17	< 8.3	< 4.2	< 8.3	< 4.2	< 4.2	< 4.2	< 4.2	< 8.3	< 8.3	< 4.2	< 4.2
	FHARF-13A-3	06/26/2013	Primary	5	< 4.2	< 4.2	< 4.2	< 8.3	< 4.2	< 4.2	< 4.2	< 17	< 8.3	< 4.2	< 8.3	< 4.2	< 4.2	< 4.2	< 4.2	< 8.3	< 8.3	< 4.2	< 4.2
	FHARF-13A-4	06/26/2013	Primary	10	< 4.1	< 4.1	< 4.1	< 8.2	< 4.1	< 4.1	< 4.1	< 16	< 8.2	< 4.1	< 8.2	< 4.1	< 4.1	< 4.1	< 4.1	< 8.2	< 8.2	< 4.1	< 4.1
	FHARF-13A-4	06/26/2013	Primary	2	< 3.8	< 3.8	< 3.8	< 7.6	< 3.8	< 3.8	< 3.8	< 15	< 7.6	< 3.8	< 7.6	< 3.8	< 3.8	< 3.8	< 3.8	< 7.6	< 7.6	< 3.8	< 3.8
	FHARF-13A-4	06/26/2013	Primary	5	< 3.9	< 3.9	< 3.9	< 7.8	< 3.9	< 3.9	< 3.9	< 16	< 7.8	< 3.9	< 7.8	< 3.9	< 3.9	< 3.9	< 3.9	< 7.8	< 7.8	< 3.9	< 3.9
FHARF-13B	FHARF-13B-1	06/27/2013	Primary	10	< 5.4	< 5.4	< 5.4	< 11	< 5.4	< 5.4	< 5.4	< 21	< 11	< 5.4	< 11	< 5.4	< 5.4	< 5.4	< 5.4	< 11	< 11	< 5.4	< 5.4
	FHARF-13B-1	06/27/2013	Primary	2	< 4.2	< 4.2	< 4.2	< 8.3	< 4.2	< 4.2	< 4.2	< 17	< 8.3	< 4.2	< 8.3	< 4.2	< 4.2	< 4.2	< 4.2	< 8.3	< 8.3	< 4.2	< 4.2
	FHARF-13B-1	06/27/2013	Primary	5	< 5.9	< 5.9	< 5.9	< 12	< 5.9	< 5.9	< 5.9	< 24	< 12	< 5.9	< 12	< 5.9	< 5.9	< 5.9	< 5.9	< 12	< 12	< 5.9	< 5.9
	FHARF-13B-2	06/27/2013	Primary	10	< 3.8	< 3.8	< 3.8	< 7.6	< 3.8	< 3.8	< 3.8	< 15	< 7.6	< 3.8	< 7.6	< 3.8	< 3.8	< 3.8	< 3.8	< 7.6	< 7.6	< 3.8	< 3.8
	FHARF-13B-2	06/27/2013	Primary	2	< 4.1	< 4.1	< 4.1	< 8.3	< 4.1	< 4.1	< 4.1	< 17	< 8.3	< 4.1	< 8.3	< 4.1	< 4.1	< 4.1	< 4.1	< 8.3	< 8.3	< 4.1	< 4.1
	FHARF-13B-2	06/27/2013	Primary	5	< 4.2	< 4.2	< 4.2	< 8.4	< 4.2	< 4.2	< 4.2	< 17	< 8.4	< 4.2	< 8.4	< 4.2	< 4.2	< 4.2	< 4.2	< 8.4	< 8.4	< 4.2	< 4.2
	FHARF-13B-3	06/27/2013	Primary	10	< 4.8	< 4.8	< 4.8	< 9.5	< 4.8	< 4.8	< 4.8	< 19	< 9.5	< 4.8	< 9.5	< 4.8	< 4.8	< 4.8	< 4.8	< 9.5	< 9.5	< 4.8	< 4.8
	FHARF-13B-3	06/27/2013	Primary	2	< 3.8	< 3.8	< 3.8	< 7.6	< 3.8	< 3.8	< 3.8	< 15	< 7.6	< 3.8	< 7.6	< 3.8	< 3.8	< 3.8	< 3.8	< 7.6	< 7.6	< 3.8	< 3.8
	FHARF-13B-3	06/27/2013	Primary	5	< 4.4	< 4.4	< 4.4	< 8.8	< 4.4	< 4.4	< 4.4	< 18	< 8.8	< 4.4	< 8.8	< 4.4	< 4.4	< 4.4	< 4.4	< 8.8	< 8.8	< 4.4	< 4.4
	FHARF-13B-4	06/26/2013	Primary	10	< 4.3	< 4.3	< 4.3	< 8.7	< 4.3	< 4.3	< 4.3	< 17	< 8.7	< 4.3	< 8.7	< 4.3	< 4.3	< 4.3	< 4.3	< 8.7	< 8.7	< 4.3	< 4.3
	FHARF-13B-4	06/26/2013	Primary	2	< 4.8	< 4.8	< 4.8	< 9.7	< 4.8	< 4.8	< 4.8	< 19	< 9.7	< 4.8	< 9.7	< 4.8	< 4.8	< 4.8	< 4.8	< 9.7	< 9.7	< 4.8	< 4.8
	FHARF-13B-4	06/26/2013	Primary	4.5	< 4.6	< 4.6	< 4.6	< 9.2	< 4.6	< 4.6	< 4.6	< 18	< 9.2	< 4.6	< 9.2	< 4.6	< 4.6	< 4.6	< 4.6	< 9.2	< 9.2	< 4.6	< 4.6
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					-	520	1700	300	-	48	1500	-	1100	68	29000	190	-	-	**3800**	**-**	**-**	**1400**	**680**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from furth
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

b = ESL for Chromium III
c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds ESL
Orange highlight indicates the reported quantity exceeds ESL

TABLE 20
AOC 3, SUBSET AREA 2, FHARF 13, DRUMS
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

Boring Designation	Sample Identification	Sample Date	Sample Type	Sample Depth (feet bgs)	Volatile Organic Compounds (µg/Kg)																	
					Isopropylbenzene	Methyl Tert Butyl Ether	Methylene chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane (CFC-11)	Trifluorotrichloroethane (Freon 113)	Vinyl acetate	Vinyl chloride	Xylene (total)
FHARF-13A	FHARF-13A-1	06/26/2013	Primary	10	< 3.9	< 3.9	< 7.7	< 7.7	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 39	< 3.9	< 7.7
	FHARF-13A-1	06/26/2013	Primary	2	< 4.2	< 4.2	< 8.3	< 8.3	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 42	< 4.2	< 8.3
	FHARF-13A-1	06/26/2013	Primary	5	< 3.6	< 3.6	< 7.3	< 7.3	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 3.6	< 36	< 3.6	< 7.3
	FHARF-13A-2	06/26/2013	Primary	10	< 3.7	< 3.7	< 7.4	< 7.4	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 3.7	< 37	< 3.7	< 7.4
	FHARF-13A-2	06/26/2013	Primary	2	< 3.8	< 3.8	< 7.7	< 7.7	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 38	< 3.8	< 7.7
	FHARF-13A-2	06/26/2013	Primary	5	< 4	< 4	< 8	< 8	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 40	< 4	< 8
	FHARF-13A-3	06/26/2013	Primary	10	< 3.9	< 3.9	< 7.8	< 7.8	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 39	< 3.9	< 7.8
	FHARF-13A-3	06/26/2013	Primary	2	< 4.2	< 4.2	< 8.3	< 8.3	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 42	< 4.2	< 8.3
	FHARF-13A-3	06/26/2013	Primary	5	< 4.2	< 4.2	< 8.3	< 8.3	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 42	< 4.2	< 8.3
	FHARF-13A-4	06/26/2013	Primary	10	< 4.1	< 4.1	< 8.2	< 8.2	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 41	< 4.1	< 8.2
	FHARF-13A-4	06/26/2013	Primary	2	< 3.8	< 3.8	< 7.6	< 7.6	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 38	< 3.8	< 7.6
	FHARF-13A-4	06/26/2013	Primary	5	< 3.9	< 3.9	< 7.8	< 7.8	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 39	< 3.9	< 7.8
FHARF-13B	FHARF-13B-1	06/27/2013	Primary	10	< 5.4	< 5.4	< 11	< 11	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 5.4	< 54	< 5.4	< 11
	FHARF-13B-1	06/27/2013	Primary	2	< 4.2	< 4.2	< 8.3	< 8.3	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 42	< 4.2	< 8.3
	FHARF-13B-1	06/27/2013	Primary	5	< 5.9	< 5.9	< 12	< 12	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 5.9	< 59	< 5.9	< 12
	FHARF-13B-2	06/27/2013	Primary	10	< 3.8	< 3.8	< 7.6	< 7.6	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 38	< 3.8	< 7.6
	FHARF-13B-2	06/27/2013	Primary	2	< 4.1	< 4.1	< 8.3	< 8.3	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 41	< 4.1	< 8.3
	FHARF-13B-2	06/27/2013	Primary	5	< 4.2	< 4.2	< 8.4	< 8.4	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 42	< 4.2	< 8.4
	FHARF-13B-3	06/27/2013	Primary	10	< 4.8	< 4.8	< 9.5	< 9.5	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 48	< 4.8	< 9.5
	FHARF-13B-3	06/27/2013	Primary	2	< 3.8	< 3.8	< 7.6	< 7.6	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 3.8	< 38	< 3.8	< 7.6
	FHARF-13B-3	06/27/2013	Primary	5	< 4.4	< 4.4	< 8.8	< 8.8	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 4.4	< 44	< 4.4	< 8.8
	FHARF-13B-4	06/26/2013	Primary	10	< 4.3	< 4.3	< 8.7	< 8.7	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 4.3	< 43	< 4.3	< 8.7
	FHARF-13B-4	06/26/2013	Primary	2	< 4.8	< 4.8	< 9.7	< 9.7	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 48	< 4.8	< 9.7
	FHARF-13B-4	06/26/2013	Primary	4.5	< 4.6	< 4.6	< 9.2	< 9.2	< 4.6	< 4.6	**17**	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 46	< 4.6	< 9.2
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**-**	**23**	**77**	**33**	**-**	**-**	**1500**	**-**	**420**	**2900**	**100000**	**670**	**-**	**460**	**-**	**-**	**8.2**	**2300**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from furth
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

b = ESL for Chromium III
c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds ESL
Orange highlight indicates the reported quantity exceeds ESL

TABLE 21
AOC 3, SUBSET AREA 2, FHARF 14, POWER SUBSTATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					PCBs (µg/Kg)							Total Petroleum Hydrocarbons (mg/Kg)	
Boring Designation	**Sample Identification**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Aroclor-1016 (PCB-1016)**	**Aroclor-1221 (PCB-1221)**	**Aroclor-1232 (PCB-1232)**	**Aroclor-1242 (PCB-1242)**	**Aroclor-1248 (PCB-1248)**	**Aroclor-1254 (PCB-1254)**	**Aroclor-1260 (PCB-1260)**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**
FHARF-14	**FHARF-14-1**	06/26/2013	Primary	10	< 48	< 48	< 48	< 48	< 48	< 48	< 48	1	< 50
	FHARF-14-1	06/26/2013	Primary	2	< 49	< 49	< 49	< 49	< 49	< 49	< 49	2.6	< 50
	FHARF-14-1	06/26/2013	Primary	5	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 1	< 50
	FHARF-14-2	06/26/2013	Primary	10	< 49	< 49	< 49	< 49	< 49	< 49	< 49	< 0.99	< 49
	FHARF-14-2	06/26/2013	Primary	2	< 49	< 49	< 49	< 49	< 49	< 49	< 49	2.1	< 50
	FHARF-14-2	06/26/2013	Primary	5	< 49	< 49	< 49	< 49	< 49	< 49	< 49	1.2	< 49
	FHARF-14-3	06/26/2013	Primary	10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	1.4	< 50
	FHARF-14-3	06/26/2013	Primary	2	< 50	< 50	< 50	< 50	< 50	< 50	< 50	1.6	< 49
	FHARF-14-3	06/26/2013	Primary	5	< 49	< 49	< 49	< 49	< 49	< 49	< 49	< 1	< 50
	FHARF-14-4	06/26/2013	Primary	10	< 48	< 48	< 48	< 48	< 48	< 48	< 48	3.2	< 50
	FHARF-14-4	06/26/2013	Primary	2	< 49	< 49	< 49	< 49	< 49	< 49	< 49	2.8	< 49
	FHARF-14-4	06/26/2013	Duplicate	2	< 49	< 49	< 49	< 49	< 49	< 49	< 49	2.7	< 50
	FHARF-14-4	06/26/2013	Primary	5	< 49	< 49	< 49	< 49	< 49	< 49	< 49	< 0.99	< 50
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**250**							**230**	**5100**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

TABLE 22
AOC 3 - TR2/EX2
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Total Petroleum Hydrocarbons (mg/Kg)			
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**	**Total Petroleum Hydrocarbons-Stoddard Solvent**	**Total Petroleum Hydrocarbons (C5-C12) GRO**
3-TR2	**3-TR2-B5**	11/01/2013	Bottom	10	4.0	< 49	< 0.99	-
	3-TR2-B6	11/01/2013	Bottom	10	< 0.99	< 50	< 0.99	-
	3-TR2-B7	11/01/2013	Bottom	10	72	< 49	3.6	-
	3-TR2-S12(4)	10/23/2013	Sidewall	4	13	< 50	1.1	-
	3-TR2-S13(4)	10/23/2013	Sidewall	4	< 0.99	< 49	< 0.99	-
	3-TR2-S14	11/01/2013	Sidewall	10	< 0.99	< 49	< 0.99	-
	3-TR2-S15	11/01/2013	Sidewall	10	< 0.99	< 49	< 0.99	-
	3-TR2-S16	11/01/2013	Sidewall	10	< 1.0	< 50	< 1.0	-
3-EX2	**3-EX2-B5**	11/01/2013	Bottom	10	13	< 50	< 0.99	-
	3-EX2-B6	11/01/2013	Bottom	10	19	< 50	< 1.0	-
	3-EX2-B7	11/01/2013	Bottom	10	22	55	< 1.0	-
	3-EX2-S9	11/01/2013	Sidewall	5	< 1.0	< 50	< 1.0	-
	3-EX2-S10	11/01/2013	Sidewall	5	< 0.99	< 49	< 0.99	-
	3-EX2-S11	11/01/2013	Sidewall	5	2.8	< 50	< 1.0	-
	3-EX2-S13	11/01/2013	Sidewall	5	< 0.98	< 49	< 0.98	-
	3-EX2-S14	11/01/2013	Sidewall	5	< 0.99	< 50	< 0.99	-
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**230**	**5100**	**100**	**100**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 23
AOC 3 - WASH RACK
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					PCBs (mg/Kg)							Semi-Volatile Organic Compounds (SIM) (mg/Kg)			
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Aroclor-1016 (PCB-1016)**	**Aroclor-1221 (PCB-1221)**	**Aroclor-1232 (PCB-1232)**	**Aroclor-1242 (PCB-1242)**	**Aroclor-1248 (PCB-1248)**	**Aroclor-1254 (PCB-1254)**	**Aroclor-1260 (PCB-1260)**	**Acenaphthene**	**Acenaphthylene**	**Anthracene**	**Benzo(a)anthracene**
3-WR Excavation	**3-WR-B1(2.0)**	10/09/2013	Bottom	2	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	3-WR-B2(2.0)	10/09/2013	Bottom	2	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.010	< 0.010	< 0.010	< 0.010
	3-WR-B3(3.0)	11/04/2013	Bottom	3	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	3-WR-S1(1.0)	10/09/2013	Sidewall	1	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0049	< 0.0049	< 0.0049	< 0.0049
	3-WR-S2(1.0)	10/09/2013	Sidewall	1	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.010	< 0.010	< 0.010	< 0.010
	3-WR-S6(1.0)	10/09/2013	Sidewall	1	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025
	3-WR-S7(1.0)	10/24/2013	Sidewall	1	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.0049	< 0.0049	< 0.0049	< 0.0049
	3-WR-S8(1.0)	10/24/2013	Sidewall	1	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
	3-WR-S10(1.5)	11/04/2013	Sidewall	1.5	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	< 0.0049	< 0.0049	< 0.0049	< 0.0049
3-WR DI	**FHARF-3-WR-4(3.0)**	10/08/2013	Bottom	3	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.025	< 0.025	< 0.025	< 0.025
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**0.25**							**16**	**13**	**2.8**	**0.16**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

a = ESL for Chromium III
b = ESL for Direct Exposure Human Health, Residential Shallow Soil

TABLE 23
AOC 3 - WASH RACK
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Semi-Volatile Organic Compounds (SIM) (mg/Kg)								
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene**	**Benzo(g,h,i)perylene**	**Benzo(k)fluoranthene**	**Chrysene**	**Dibenz(a,h)anthracene**	**Fluoranthene**	**Fluorene**	**Indeno(1,2,3-cd)pyrene**
3-WR Excavation	**3-WR-B1(2.0)**	10/09/2013	Bottom	2	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	3-WR-B2(2.0)	10/09/2013	Bottom	2	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
	3-WR-B3(3.0)	11/04/2013	Bottom	3	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	3-WR-S1(1.0)	10/09/2013	Sidewall	1	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
	3-WR-S2(1.0)	10/09/2013	Sidewall	1	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
	3-WR-S6(1.0)	10/09/2013	Sidewall	1	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
	3-WR-S7(1.0)	10/24/2013	Sidewall	1	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
	3-WR-S8(1.0)	10/24/2013	Sidewall	1	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
	3-WR-S10(1.5)	11/04/2013	Sidewall	1.5	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
3-WR DI	**FHARF-3-WR-4(3.0)**	10/08/2013	Bottom	3	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**0.016**	**0.16**	**2.5**	**1.6**	**3.8**	**0.016**	**60**	**8.9**	**0.16**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further a
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

a = ESL for Chromium III
b = ESL for Direct Exposure Human Health, Residential Shallow Soil

TABLE 23
AOC 3 - WASH RACK
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Semi-Volatile Organic Compounds (SIM) (mg/Kg)			Total Petroleum Hydrocarbons (mg/Kg)		Inorganic Compounds (mg/Kg)				
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Naphthalene**	**Phenanthrene**	**Pyrene**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**	**Cadmium**	**Chromium**	**Lead**	**Nickel**	**Zinc**
3-WR Excavation	**3-WR-B1(2.0)**	10/09/2013	Bottom	2	< 0.0050	< 0.0050	< 0.0050	21	64	< 0.42	38	5.9	64	39
	3-WR-B2(2.0)	10/09/2013	Bottom	2	< 0.010	< 0.010	< 0.010	65	280	< 0.44	63	49	77	72
	3-WR-B3(3.0)	11/04/2013	Bottom	3	< 0.0050	< 0.0050	< 0.0050	5.4	< 50	< 0.47	56	6.9	67	40
	3-WR-S1(1.0)	10/09/2013	Sidewall	1	< 0.0049	< 0.0049	< 0.0049	26	92	1.8	61	5.0	73	64
	3-WR-S2(1.0)	10/09/2013	Sidewall	1	< 0.010	< 0.010	< 0.010	8.6	< 50	< 0.37	38	4.8	50	39
	3-WR-S6(1.0)	10/09/2013	Sidewall	1	< 0.025	< 0.025	< 0.025	97	380	< 0.42	37	33	51	61
	3-WR-S7(1.0)	10/24/2013	Sidewall	1	< 0.0049	< 0.0049	< 0.0049	8.7	< 50	< 0.43	63	7.0	81	50
	3-WR-S8(1.0)	10/24/2013	Sidewall	1	< 0.0049	< 0.0049	< 0.0049	1.7	< 49	< 0.43	51	4.1	62	34
	3-WR-S10(1.5)	11/04/2013	Sidewall	1.5	< 0.0049	< 0.0049	< 0.0049	7.0	< 49	< 0.49	66	8.1	89	55
3-WR DI	**FHARF-3-WR-4(3.0)**	10/08/2013	Bottom	3	< 0.025	< 0.025	< 0.025	91	290	< 0.40	43	43	61	71
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**0.033**	**11**	**85**	**100**	**500**	**39**	**120000** [a]	**80**	**820** [b]	**23000**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further a
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

a = ESL for Chromium III
b = ESL for Direct Exposure Human Health, Residential Shallow Soil

TABLE 24
AOC 3 - UST EXCAVATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Total Petroleum Hydrocarbons (mg/Kg)			Volatile Organic Compounds (mg/Kg)									
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**	**Total Petroleum Hydrocarbons (C5-C12) GRO**	**1,1,1,2-Tetrachloroethane**	**1,1,1-Trichloroethane**	**1,1,2,2-Tetrachloroethane**	**1,1,2-Trichloroethane**	**1,1-Dichloroethane**	**1,1-Dichloroethene**	**1,1-Dichloropropene**	**1,2,3-Trichlorobenzene**	**1,2,3-Trichloropropane**	**1,2,4-Trichlorobenzene**
3-UST Excavation	**3-UST-B3(8)**	01/07/2014	Bottom	8	1500	3300	0.46	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	3-UST-B4(8)	01/07/2014	Bottom	8	1700	4200	0.71	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047
	3-UST-B5(4)	04/15/2014	Bottom	4	24	< 50	-	-	-	-	-	-	-	-	-	-	-
	3-UST-B6(8)	04/15/2014	Bottom	8	19	< 50	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S7(6)	01/17/2014	Sidewall	6	4.7	< 50	< 0.25	-	-	-	-	-	-	-	-	-	-
	3-UST-S10(6)	01/17/2014	Sidewall	6	<0.99	< 50	< 0.25	-	-	-	-	-	-	-	-	-	-
	3-UST-S11(3)	01/17/2014	Sidewall	3	31	51	1.1	-	-	-	-	-	-	-	-	-	-
	3-UST-S13(3)	04/15/2014	Sidewall	3	11	< 50	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S14(3)	04/15/2014	Sidewall	3	48	82	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S15(6)	04/15/2014	Sidewall	6	<0.99	< 50	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S16(6)	04/15/2014	Sidewall	6	<0.99	< 50	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S17(6)	04/15/2014	Sidewall	6	<0.99	< 50	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S18(3)	04/15/2014	Sidewall	3	5.7	< 50	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S19(3)	04/15/2014	Sidewall	3	5.4	< 50	-	-	-	-	-	-	-	-	-	-	-
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**230**	**5100**	**100**	**0.01**	**7.8**	**0.018**	**0.07**	**0.2**	**0.55**	-	-	-	**1.5**

Notes:
1. Constituents not detected during initial round of sampling were excluded from further analyses.
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Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 24
AOC 3 - UST EXCAVATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Volatile Organic Compounds (mg/Kg)														
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**1,2,4-Trimethylbenzene**	**1,2-Dibromo-3-chloropropane (DBCP)**	**1,2-Dibromoethane (Ethylene Dibromide)**	**1,2-Dichlorobenzene**	**1,2-Dichloroethane**	**1,2-Dichloropropane**	**1,3,5-Trimethylbenzene**	**1,3-Dichlorobenzene**	**1,3-Dichloropropane**	**1,4-Dichlorobenzene**	**2,2-Dichloropropane**	**2-Butanone (Methyl Ethyl Ketone)**	**2-Chlorotoluene**	**2-Hexanone**	**2-Phenylbutane (sec-Butylbenzene)**
3-UST Excavation	**3-UST-B3(8)**	01/07/2014	Bottom	8	0.018	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0088	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.005	< 0.05	< 0.005
	3-UST-B4(8)	01/07/2014	Bottom	8	0.0093	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.047	< 0.0047	< 0.047	< 0.0047
	3-UST-B5(4)	04/15/2014	Bottom	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-B6(8)	04/15/2014	Bottom	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S7(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S10(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S11(3)	01/17/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S13(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S14(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S15(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S16(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S17(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S18(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S19(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**-**	**0.0045**	**0.00033**	**1.6**	**0.0045**	**0.12**	**-**	**7.4**	**-**	**0.59**	**-**	**5.1**	**-**	**-**	**-**

Notes:
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2. - Sample not analyzed for this constituent.
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Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 24
AOC 3 - UST EXCAVATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Volatile Organic Compounds (mg/Kg)														
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**4-Chlorotoluene**	**4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)**	**Acetone**	**Benzene**	**Bromobenzene**	**Bromodichloromethane**	**Bromoform**	**Bromomethane (Methyl Bromide)**	**Carbon disulfide**	**Carbon tetrachloride**	**Chlorobenzene**	**Chlorobromomethane**	**Chloroethane**	**Chloroform (Trichloromethane)**	**Chloromethane (Methyl Chloride)**
3-UST Excavation	**3-UST-B3(8)**	01/07/2014	Bottom	8	< 0.005	< 0.05	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0099	< 0.005	< 0.005	< 0.005	< 0.02	< 0.0099	< 0.005	< 0.0099
	3-UST-B4(8)	01/07/2014	Bottom	8	< 0.0047	< 0.047	< 0.047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0094	< 0.0047	< 0.0047	< 0.0047	< 0.019	< 0.0094	< 0.0047	< 0.0094
	3-UST-B5(4)	04/15/2014	Bottom	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-B6(8)	04/15/2014	Bottom	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S7(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S10(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S11(3)	01/17/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S13(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S14(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S15(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S16(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S17(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S18(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S19(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**-**	**2.8**	**0.5**	**0.044**	**-**	**0.52**	**1.7**	**0.3**	**-**	**0.048**	**1.5**	**-**	**1.1**	**0.068**	**29**

Notes:
1. Constituents not detected during initial round of sampling were excluded from further analyses.
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Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 24
AOC 3 - UST EXCAVATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Volatile Organic Compounds (mg/Kg)														
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**cis-1,2-Dichloroethene**	**cis-1,3-Dichloropropene**	**Cymene (p-Isopropyltoluene)**	**Dibromochloromethane**	**Dibromomethane**	**Dichlorodifluoromethane (CFC-12)**	**Ethylbenzene**	**Hexachlorobutadiene**	**Isopropylbenzene**	**Methyl Tert Butyl Ether**	**Methylene chloride**	**Naphthalene**	**n-Butylbenzene**	**n-Propylbenzene**	**Styrene**
3-UST Excavation	**3-UST-B3(8)**	01/07/2014	Bottom	8	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0099	< 0.0099	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0099	< 0.0099	< 0.005	< 0.005	< 0.005
	3-UST-B4(8)	01/07/2014	Bottom	8	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0094	< 0.0094	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0094	0.021	< 0.0047	< 0.0047	< 0.0047
	3-UST-B5(4)	04/15/2014	Bottom	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-B6(8)	04/15/2014	Bottom	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S7(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S10(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S11(3)	01/17/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S13(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S14(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S15(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S16(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S17(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S18(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S19(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**0.19**	**-**	**-**	**3.8**	**-**	**-**	**1.4**	**0.68**	**-**	**0.023**	**0.077**	**0.033**	**-**	**-**	**1.5**

Notes:
1. Constituents not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 24
AOC 3 - UST EXCAVATION
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Volatile Organic Compounds (mg/Kg)										
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (feet bgs)**	**tert-Butylbenzene**	**Tetrachloroethene**	**Toluene**	**trans-1,2-Dichloroethene**	**trans-1,3-Dichloropropene**	**Trichloroethene**	**Trichlorofluoromethane (CFC-11)**	**Trifluorotrichloroethane (Freon 113)**	**Vinyl acetate**	**Vinyl chloride**	**Xylene (total)**
3-UST Excavation	**3-UST-B3(8)**	01/07/2014	Bottom	8	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.005	0.01
	3-UST-B4(8)	01/07/2014	Bottom	8	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.047	< 0.0047	< 0.0094
	3-UST-B5(4)	04/15/2014	Bottom	4	-	-	-	-	-	-	-	-	-	-	-
	3-UST-B6(8)	04/15/2014	Bottom	8	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S7(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S10(6)	01/17/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S11(3)	01/17/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S13(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S14(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S15(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S16(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S17(6)	04/15/2014	Sidewall	6	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S18(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-
	3-UST-S19(3)	04/15/2014	Sidewall	3	-	-	-	-	-	-	-	-	-	-	-
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**-**	**0.42**	**2.9**	**100**	**0.67**	**-**	**0.46**	**-**	**-**	**0.0082**	**2.3**

Notes:
1. Constituents not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 25
AOC 4, SUBSET AREA 3, FHARF 10, CONCRETE BATCH PLANT
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

		Boring Designation	FHARF-10					Action Levels
		Sample Identification	FHARF-10-2	FHARF-10-2	FHARF-10-4	FHARF-10-5	FHARF-10-8	SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)
		Sample Date	07/02/2013	07/02/2013	07/02/2013	07/02/2013	07/02/2013	
		Sample Type	Primary	Duplicate	Primary	Primary	Primary	
	Chemical Name	Sample Depth (feet bgs)	0.3	0.3	0.3	0.3	0.3	
Other	pH		7.75	7.78	8.43	7.95	10.2	--
Semi-Volatile Organic Compounds (mg/Kg)	1,2,4-Trichlorobenzene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	1.5
	1,2-Dichlorobenzene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	1.6
	1,3-Dichlorobenzene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	7.4
	1,4-Dichlorobenzene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	0.59
	2,4,5-Trichlorophenol		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	0.18
	2,4,6-Trichlorophenol		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	0.21
	2,4-Dichlorophenol		< 0.33	< 0.33	< 0.32	< 0.33	< 0.33	0.3
	2,4-Dimethylphenol		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	0.67
	2,4-Dinitrophenol		< 0.65	< 0.65	< 0.65	< 0.65	< 0.66	0.11
	2,4-Dinitrotoluene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	0.0018
	2,6-Dinitrotoluene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	--
	2-Chloronaphthalene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	--
	2-Chlorophenol		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	0.012
	2-Methyl-4,6-dinitrophenol		< 0.33	< 0.33	< 0.32	< 0.33	< 0.33	--
	2-Methylnaphthalene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	--
	2-Methylphenol		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	--
	2-Nitroaniline		< 0.33	< 0.33	< 0.32	< 0.33	< 0.33	--
	2-Nitrophenol		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	--
	3&4-Methylphenol		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	--
	3,3'-Dichlorobenzidine		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	0.012
	3-Nitroaniline		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	--
	4-Bromophenyl phenyl ether		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	--
	4-Chloro-3-methylphenol		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	--
	4-Chloroaniline		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	--
	4-Chlorophenyl phenyl ether		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	--
	4-Nitroaniline		< 0.33	< 0.33	< 0.32	< 0.33	< 0.33	--
	4-Nitrophenol		< 0.33	< 0.33	< 0.32	< 0.33	< 0.33	--
	Acenaphthene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	16
	Acenaphthylene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	13
	Anthracene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	2.8
	Azobenzene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	--
	Benzo(a)anthracene		< 0.33	< 0.33	< 0.32	< 0.33	< 0.33	0.16
	Benzo(a)pyrene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	0.016
	Benzo(b)fluoranthene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	0.16
	Benzo(g,h,i)perylene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	2.5
	Benzo(k)fluoranthene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	1.6
	Benzoic acid		< 0.33	< 0.33	< 0.32	< 0.33	< 0.33	--
	Benzyl Alcohol		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	--
	bis(2-Chloroethoxy)methane		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	--
	bis(2-Chloroethyl)ether		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	0.00008
	bis(2-Ethylhexyl)phthalate		< 0.33	< 0.33	< 0.32	< 0.33	< 0.33	39
	Butyl benzylphthalate		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	--
	Chrysene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	3.8
	Dibenz(a,h)anthracene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	0.016
	Dibenzofuran		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	--
	Diethyl phthalate		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	0.035
	Dimethyl phthalate		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	0.035
	Di-n-butylphthalate		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	--
	Di-n-octyl phthalate		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	--
	Fluoranthene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	60
	Fluorene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	8.9
	Hexachlorobenzene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	0.34
	Hexachlorobutadiene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	0.68
	Hexachlorocyclopentadiene		< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	--
	Hexachloroethane		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	1.1
	Indeno(1,2,3-cd)pyrene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	0.16
	Isophorone		< 0.066	< 0.066	< 0.066	< 0.066	0.79	--
	Naphthalene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	0.033
	Nitrobenzene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	--
	N-Nitrosodi-n-propylamine		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	--
	N-Nitrosodiphenylamine		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	--
	Pentachlorophenol		< 0.33	< 0.33	< 0.32	< 0.33	< 0.33	1
	Phenanthrene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	11
	Phenol		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	0.076
	Pyrene		< 0.066	< 0.066	< 0.066	< 0.066	< 0.067	85

TABLE 25
AOC 4, SUBSET AREA 3, FHARF 10, CONCRETE BATCH PLANT
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

	Chemical Name	Boring Designation	FHARF-10					Action Levels
		Sample Identification	FHARF-10-2	FHARF-10-2	FHARF-10-4	FHARF-10-5	FHARF-10-8	SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)
		Sample Date	07/02/2013	07/02/2013	07/02/2013	07/02/2013	07/02/2013	
		Sample Type	Primary	Duplicate	Primary	Primary	Primary	
		Sample Depth (feet bgs)	0.3	0.3	0.3	0.3	0.3	
Volatile Organic Compounds (µg/Kg)	1,1,1,2-Tetrachloroethane		< 5.4	< 5.5	< 4.2	< 4.2	< 4	10
	1,1,1-Trichloroethane		< 5.4	< 5.5	< 4.2	< 4.2	< 4	7800
	1,1,2,2-Tetrachloroethane		< 5.4	< 5.5	< 4.2	< 4.2	< 4	18
	1,1,2-Trichloroethane		< 5.4	< 5.5	< 4.2	< 4.2	< 4	70
	1,1-Dichloroethane		< 5.4	< 5.5	< 4.2	< 4.2	< 4	200
	1,1-Dichloroethene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	550
	1,1-Dichloropropene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	1,2,3-Trichlorobenzene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	1,2,3-Trichloropropane		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	1,2,4-Trichlorobenzene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	1500
	1,2,4-Trimethylbenzene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	1,2-Dibromo-3-chloropropane (DBCP)		< 5.4	< 5.5	< 4.2	< 4.2	< 4	4.5
	1,2-Dibromoethane (Ethylene Dibromide)		< 5.4	< 5.5	< 4.2	< 4.2	< 4	0.33
	1,2-Dichlorobenzene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	1600
	1,2-Dichloroethane		< 5.4	< 5.5	< 4.2	< 4.2 *	< 4 *	4.5
	1,2-Dichloropropane		< 5.4	< 5.5	< 4.2	< 4.2	< 4	120
	1,3,5-Trimethylbenzene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	1,3-Dichlorobenzene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	7400
	1,3-Dichloropropane		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	1,4-Dichlorobenzene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	590
	2,2-Dichloropropane		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	2-Butanone (Methyl Ethyl Ketone)		< 54	< 55	< 42	< 42	< 40	5100
	2-Chlorotoluene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	2-Hexanone		< 54	< 55	< 42	< 42	< 40	-
	2-Phenylbutane (sec-Butylbenzene)		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	4-Chlorotoluene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)		< 54	< 55	< 42	< 42	< 40	2800
	Acetone		< 54	< 55	< 42	< 42	< 40	500
	Benzene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	44
	Bromobenzene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	Bromodichloromethane		< 5.4	< 5.5	< 4.2	< 4.2 *	< 4 *	520
	Bromoform		< 5.4	< 5.5	< 4.2	< 4.2	< 4	1700
	Bromomethane (Methyl Bromide)		< 11	< 11	< 8.4	< 8.4	< 8	300
	Carbon disulfide		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	Carbon tetrachloride		< 5.4	< 5.5	< 4.2	< 4.2	< 4	48
	Chlorobenzene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	1500
	Chlorobromomethane		< 22	< 22	< 17	< 17	< 16	-
	Chloroethane		< 11	< 11	< 8.4	< 8.4	< 8	1100
	Chloroform (Trichloromethane)		< 5.4	< 5.5	< 4.2	< 4.2	< 4	68
	Chloromethane (Methyl Chloride)		< 11	< 11	< 8.4	< 8.4	< 8	29000
	cis-1,2-Dichloroethene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	190
	cis-1,3-Dichloropropene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	Cymene (p-Isopropyltoluene)		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	Dibromochloromethane		< 5.4	< 5.5	< 4.2	< 4.2	< 4	3800
	Dibromomethane		< 11	< 11	< 8.4	< 8.4	< 8	-
	Dichlorodifluoromethane (CFC-12)		< 11	< 11	< 8.4	< 8.4	< 8	-
	Ethylbenzene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	1400
	Hexachlorobutadiene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	680
	Isopropylbenzene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	Methyl Tert Butyl Ether		< 5.4	< 5.5	< 4.2	< 4.2	< 4	23
	Methylene chloride		< 11	< 11	< 8.4	< 8.4	< 8	77
	Naphthalene		< 11	< 11	< 8.4	< 8.4	< 8	33
	n-Butylbenzene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	n-Propylbenzene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	Styrene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	1500
	tert-Butylbenzene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	Tetrachloroethene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	420
	Toluene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	2900
	trans-1,2-Dichloroethene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	670
	trans-1,3-Dichloropropene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	Trichloroethene		< 5.4	< 5.5	< 4.2	< 4.2	< 4	460

TABLE 25
AOC 4, SUBSET AREA 3, FHARF 10, CONCRETE BATCH PLANT
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

	Chemical Name	Boring Designation	FHARF-10					Action Levels
		Sample Identification	FHARF-10-2	FHARF-10-2	FHARF-10-4	FHARF-10-5	FHARF-10-8	SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)
		Sample Date	07/02/2013	07/02/2013	07/02/2013	07/02/2013	07/02/2013	
		Sample Type	Primary	Duplicate	Primary	Primary	Primary	
		Sample Depth (feet bgs)	0.3	0.3	0.3	0.3	0.3	
Volatile Organic Compounds (µg/Kg)	Trichlorofluoromethane (CFC-11)		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	Trifluorotrichloroethane (Freon 113)		< 5.4	< 5.5	< 4.2	< 4.2	< 4	-
	Vinyl acetate		< 54	< 55	< 42	< 42	< 40	-
	Vinyl chloride		< 5.4	< 5.5	< 4.2	< 4.2	< 4	**8.2**
	Xylene (total)		< 11	< 11	< 8.4	< 8.4	< 8	**2300**
Inorganic Compounds (mg/Kg)	Cadmium		< 0.5	< 0.49	< 0.5	< 0.49	0.47	**39**
	Chromium		51	44	40	57	48	**120000** [a]
	Lead		64	15	6.6	44	12	**80**
	Nickel		60	59	42	72	54	**820** [b]
	Zinc		58	60	43	72	45	**23000**

Notes:

1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

a = ESL for Chromium III

b = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL

Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 26

AOC 4, SUBSET AREA 3, FHARF 11, TRANSFORMER (1)
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

		Boring Designation	FHARF-11				Action Levels
		Sample Identification	FHARF-11-1	FHARF-11-1	FHARF-11-1	FHARF-11-1	SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)
		Sample Date	07/01/2013	07/01/2013	07/01/2013	07/01/2013	
		Sample Type	Primary	Primary	Primary	Duplicate	
	Chemical Name	Sample Depth (feet bgs)	10	2	5	5	
PCBs (µg/Kg)	Aroclor-1016 (PCB-1016)		< 49	< 48	< 49	< 49	250
	Aroclor-1221 (PCB-1221)		< 49	< 48	< 49	< 49	
	Aroclor-1232 (PCB-1232)		< 49	< 48	< 49	< 49	
	Aroclor-1242 (PCB-1242)		< 49	< 48	< 49	< 49	
	Aroclor-1248 (PCB-1248)		< 49	< 48	< 49	< 49	
	Aroclor-1254 (PCB-1254)		< 49	< 48	< 49	< 49	
	Aroclor-1260 (PCB-1260)		< 49	< 48	< 49	< 49	
Total Petroleum Hydrocarbons (mg/Kg)	Total Petroleum Hydrocarbons (C24-C36) Motor Oil		< 50	< 49	< 50	< 50	5100

Notes:

1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

TABLE 27
AOC 5 - EX6
SUMMARY OF FHARF-6 ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

Location	Sample Name	Sample Date	Sample Type	Sample Depth (feet bgs)	PCBs (mg/Kg)							Total Petroleum Hydrocarbons (mg/Kg)	
					Aroclor-1016 (PCB-1016)	Aroclor-1221 (PCB-1221)	Aroclor-1232 (PCB-1232)	Aroclor-1242 (PCB-1242)	Aroclor-1248 (PCB-1248)	Aroclor-1254 (PCB-1254)	Aroclor-1260 (PCB-1260)	Total Petroleum Hydrocarbons (C10-C28) DRO	Total Petroleum Hydrocarbons (C24-C36) Motor Oil
FHARF-6 Excavation	**FHARF-6-B1(5)**	10/18/2013	Bottom	5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	23	58
	FHARF-6-S2(2.5)	10/18/2013	Sidewall	2.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	8.9	< 50
	FHARF-6-S3(2.5)	10/18/2013	Sidewall	2.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	7.8	< 50
	FHARF-6-S4(2.5)	10/18/2013	Sidewall	2.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	11	< 49
	FHARF-6-S5(2.25)	11/14/2013	Sidewall	2.25	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	12	< 50
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**0.25**							**230**	**5100**

1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

TABLE 28
AOC 5 - EX 7/8
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Total Petroleum Hydrocarbons (mg/Kg)			Volatile Organic Compounds (mg/Kg)												
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (bgs)**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**	**Total Petroleum Hydrocarbons Stoddard Solvent**	**1,1,1,2-Tetrachloroethane**	**1,1,1-Trichloroethane**	**1,1,2,2-Tetrachloroethane**	**1,1,2-Trichloroethane**	**1,1-Dichloroethane**	**1,1-Dichloroethene**	**1,1-Dichloropropene**	**1,2,3-Trichlorobenzene**	**1,2,3-Trichloropropane**	**1,2,4-Trichlorobenzene**	**1,2,4-Trimethylbenzene**	**1,2-Dibromo-3-chloropropane (DBCP)**	**1,2-Dibromoethane (Ethylene Dibromide)**	**1,2-Dichlorobenzene**
FHARF-7/8 Excavation	**FHARF-7/8-B1(5)**	10/18/2013	Bottom	5	2.4	< 49	< 0.99	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045
	FHARF-7/8-B3(5.0)	11/08/2013	Bottom	5	4.1	< 50	< 1	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
	FHARF-7/8-B4(8.0)	11/08/2013	Bottom	8	2.5	< 50	< 1	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
	FHARF-7/8-B5(8.0)	11/08/2013	Bottom	8	8.9	< 50	< 0.99	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047
	FHARF-7/8-S1(2.5)	10/18/2013	Sidewall	2.5	4.9	< 49	< 0.99	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045
	FHARF-7/8-S2(2.5)	10/18/2013	Sidewall	2.5	95	210	< 3	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047
	FHARF-7/8-S5(2.5)	10/18/2013	Sidewall	2.5	18	63	< 1	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046
	FHARF-7/8-S6(2.5)	10/18/2013	Sidewall	2.5	3.3	< 50	< 1	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047
	FHARF-7/8-S7(4.0)	11/08/2013	Sidewall	4	2.5	< 50	< 1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	FHARF-7/8-S8-(4.0)	11/08/2013	Sidewall	4	3.1	< 50	< 0.99	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044
	FHARF-7/8-S9(4.0)	11/08/2013	Sidewall	4	26	65	< 1	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048
	FHARF-7/8-S10(4.0)	11/08/2013	Sidewall	4	58	160	< 0.99	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**230**	**5100**	**100**	**0.18**	**7.8**	**0.018**	**0.07**	**0.2**	**0.55**	**-**	**-**	**-**	**1.5**	**-**	**0.0045**	**0.00033**	**1.6**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

b = ESL for Chromium III
c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 28
AOC 5 - EX 7/8
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Volatile Organic Compounds (mg/Kg)																
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (bgs)**	**1,2-Dichloroethane**	**1,2-Dichloropropane**	**1,3,5-Trimethylbenzene**	**1,3-Dichlorobenzene**	**1,3-Dichloropropane**	**1,4-Dichlorobenzene**	**2,2-Dichloropropane**	**2-Butanone (Methyl Ethyl Ketone)**	**2-Chlorotoluene**	**2-Hexanone**	**2-Phenylbutane (sec-Butylbenzene)**	**4-Chlorotoluene**	**4-Methyl-2-Pentanone Methyl Isobutyl Ketone)**	**Acetone**	**Benzene**	**Bromobenzene**	**Bromodichloromethane**
FHARF-7/8 Excavation	**FHARF-7/8-B1(5)**	10/18/2013	Bottom	5	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.045	< 0.0045	< 0.045	< 0.0045	< 0.0045	< 0.045	< 0.045	< 0.0045	< 0.0045	< 0.0045
	FHARF-7/8-B3(5.0)	11/08/2013	Bottom	5	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.049	< 0.0049	< 0.049	< 0.0049	< 0.0049	< 0.049	< 0.049	< 0.0049	< 0.0049	< 0.0049
	FHARF-7/8-B4(8.0)	11/08/2013	Bottom	8	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.049	< 0.0049	< 0.049	< 0.0049	< 0.0049	< 0.049	< 0.049	< 0.0049	< 0.0049	< 0.0049
	FHARF-7/8-B5(8.0)	11/08/2013	Bottom	8	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.047	< 0.0047	< 0.047	< 0.0047	< 0.0047	< 0.047	< 0.047	< 0.0047	< 0.0047	< 0.0047
	FHARF-7/8-S1(2.5)	10/18/2013	Sidewall	2.5	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.045	< 0.0045	< 0.045	< 0.0045	< 0.0045	< 0.045	< 0.045	< 0.0045	< 0.0045	< 0.0045
	FHARF-7/8-S2(2.5)	10/18/2013	Sidewall	2.5	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.047	< 0.0047	< 0.047	< 0.0047	< 0.0047	< 0.047	< 0.047	< 0.0047	< 0.0047	< 0.0047
	FHARF-7/8-S5(2.5)	10/18/2013	Sidewall	2.5	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.046	< 0.0046	< 0.046	< 0.0046	< 0.0046	< 0.046	< 0.046	< 0.0046	< 0.0046	< 0.0046
	FHARF-7/8-S6(2.5)	10/18/2013	Sidewall	2.5	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.047	< 0.0047	< 0.047	< 0.0047	< 0.0047	< 0.047	< 0.047	< 0.0047	< 0.0047	< 0.0047
	FHARF-7/8-S7(4.0)	11/08/2013	Sidewall	4	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05 *	< 0.005	< 0.05 *	< 0.005	< 0.005	< 0.05	< 0.05	< 0.005	< 0.005	< 0.005
	FHARF-7/8-S8-(4.0)	11/08/2013	Sidewall	4	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.044	< 0.0044	< 0.044	< 0.0044	< 0.0044	< 0.044	< 0.044	< 0.0044	< 0.0044	< 0.0044
	FHARF-7/8-S9(4.0)	11/08/2013	Sidewall	4	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.048 *	< 0.0048	< 0.048 *	< 0.0048	< 0.0048	< 0.048	< 0.048	< 0.0048	< 0.0048	< 0.0048
	FHARF-7/8-S10(4.0)	11/08/2013	Sidewall	4	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.049 *	< 0.0049	< 0.049 *	< 0.0049	< 0.0049	< 0.049	< 0.049	< 0.0049	< 0.0049	< 0.0049
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**0.0045**	**0.12**	**-**	**7.4**	**0.059**	**0.59**								**0.5**	**0.044**	**-**	**0.52**

Notes:
1. Constituents that were not detected during initial round of sampling were
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b = ESL for Chromium III
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Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier

TABLE 28
AOC 5 - EX 7/8
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Volatile Organic Compounds (mg/Kg)																
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (bgs)**	**Bromoform**	**Bromomethane (Methyl Bromide)**	**Carbon disulfide**	**Carbon tetrachloride**	**Chlorobenzene**	**Chlorobromomethane**	**Chloroethane**	**Chloroform (Trichloromethane)**	**Chloromethane (Methyl Chloride)**	**cis-1,2-Dichloroethene**	**cis-1,3-Dichloropropene**	**Cymene (p-Isopropyltoluene)**	**Dibromochloromethane**	**Dibromomethane**	**Dichlorodifluoromethane (CFC-12)**	**Ethylbenzene**	**Hexachlorobutadiene**
FHARF-7/8 Excavation	**FHARF-7/8-B1(5)**	10/18/2013	Bottom	5	< 0.0045	< 0.009	< 0.0045	< 0.0045	< 0.0045	< 0.018	< 0.009	< 0.0045	< 0.009	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.009	< 0.009	< 0.0045	< 0.0045
	FHARF-7/8-B3(5.0)	11/08/2013	Bottom	5	< 0.0049	< 0.0098	< 0.0049	< 0.0049	< 0.0049	< 0.02	< 0.0098	< 0.0049	< 0.0098	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0098	< 0.0098	< 0.0049	< 0.0049
	FHARF-7/8-B4(8.0)	11/08/2013	Bottom	8	< 0.0049	< 0.0098	< 0.0049	< 0.0049	< 0.0049	< 0.02	< 0.0098	< 0.0049	< 0.0098	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0098	< 0.0098	< 0.0049	< 0.0049
	FHARF-7/8-B5(8.0)	11/08/2013	Bottom	8	< 0.0047	< 0.0094	< 0.0047	< 0.0047	< 0.0047	< 0.019	< 0.0094	< 0.0047	< 0.0094	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0094	< 0.0094	< 0.0047	< 0.0047
	FHARF-7/8-S1(2.5)	10/18/2013	Sidewall	2.5	< 0.0045	< 0.0091	< 0.0045	< 0.0045	< 0.0045	< 0.018	< 0.0091	< 0.0045	< 0.0091 *	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0091	< 0.0091	< 0.0045	< 0.0045
	FHARF-7/8-S2(2.5)	10/18/2013	Sidewall	2.5	< 0.0047	< 0.0093	< 0.0047	< 0.0047	< 0.0047	< 0.019	< 0.0093	< 0.0047	< 0.0093 *	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0093	< 0.0093	< 0.0047	< 0.0047
	FHARF-7/8-S5(2.5)	10/18/2013	Sidewall	2.5	< 0.0046	< 0.0092	< 0.0046	< 0.0046	< 0.0046	< 0.018	< 0.0092	< 0.0046	< 0.0092 *	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0092	< 0.0092	< 0.0046	< 0.0046
	FHARF-7/8-S6(2.5)	10/18/2013	Sidewall	2.5	< 0.0047	< 0.0095	< 0.0047	< 0.0047	< 0.0047	< 0.019	< 0.0095	< 0.0047	< 0.0095 *	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0095	< 0.0095	< 0.0047	< 0.0047
	FHARF-7/8-S7(4.0)	11/08/2013	Sidewall	4	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.02	< 0.01	< 0.005	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005
	FHARF-7/8-S8-(4.0)	11/08/2013	Sidewall	4	< 0.0044	< 0.0088	< 0.0044	< 0.0044	< 0.0044	< 0.018	< 0.0088	< 0.0044	< 0.0088	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0088	< 0.0088	< 0.0044	< 0.0044
	FHARF-7/8-S9(4.0)	11/08/2013	Sidewall	4	< 0.0048	< 0.0096	< 0.0048	< 0.0048	< 0.0048	< 0.019	< 0.0096	< 0.0048	< 0.0096	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0096	< 0.0096	< 0.0048	< 0.0048
	FHARF-7/8-S10(4.0)	11/08/2013	Sidewall	4	< 0.0049	< 0.0098	< 0.0049	< 0.0049	< 0.0049	< 0.02	< 0.0098	< 0.0049	< 0.0098	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0098	< 0.0098	< 0.0049	< 0.0049
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**1.7**	**0.3**	**-**	**0.048**	**1.5**	**-**	**1.1**	**0.068**	**29**	**0.19**	**-**	**-**	**-**	**-**	**-**	**1.4**	**0.68**

Notes:
1. Constituents that were not detected during initial round of sampling were
2. - Sample not analyzed for this constituent.
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b = ESL for Chromium III
c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier

TABLE 28
AOC 5 - EX 7/8
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Volatile Organic Compounds (mg/Kg)																
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (bgs)**	**Isopropylbenzene**	**Methyl Tert Butyl Ether**	**Methylene chloride**	**Naphthalene**	**n-Butylbenzene**	**n-Propylbenzene**	**Styrene**	**tert-Butylbenzene**	**Tetrachloroethene**	**Toluene**	**Total Petroleum Hydrocarbons (C5-C12) GRO**	**trans-1,2-Dichloroethene**	**trans-1,3-Dichloropropene**	**Trichloroethene**	**Trichlorofluoromethane (CFC-11)**	**Trifluorotrichloroethane (Freon 113)**	**Vinyl acetate**
FHARF-7/8 Excavation	**FHARF-7/8-B1(5)**	10/18/2013	Bottom	5	< 0.0045	< 0.0045	< 0.009	< 0.009	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.23	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.045
	FHARF-7/8-B3(5.0)	11/08/2013	Bottom	5	< 0.0049	< 0.0049	< 0.0098	< 0.0098	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	-	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.049 *
	FHARF-7/8-B4(8.0)	11/08/2013	Bottom	8	< 0.0049	< 0.0049	< 0.0098	< 0.0098	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	-	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.049 *
	FHARF-7/8-B5(8.0)	11/08/2013	Bottom	8	< 0.0047	< 0.0047	< 0.0094	< 0.0094	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	-	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.047 *
	FHARF-7/8-S1(2.5)	10/18/2013	Sidewall	2.5	< 0.0045	< 0.0045	< 0.0091	< 0.0091	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.23	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.045
	FHARF-7/8-S2(2.5)	10/18/2013	Sidewall	2.5	< 0.0047	< 0.0047	< 0.0093	< 0.0093	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.23	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.047
	FHARF-7/8-S5(2.5)	10/18/2013	Sidewall	2.5	< 0.0046	< 0.0046	< 0.0092	< 0.0092	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.23	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.0046	< 0.046
	FHARF-7/8-S6(2.5)	10/18/2013	Sidewall	2.5	< 0.0047	< 0.0047	< 0.0095	< 0.0095	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.24	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.047
	FHARF-7/8-S7(4.0)	11/08/2013	Sidewall	4	< 0.005	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05
	FHARF-7/8-S8-(4.0)	11/08/2013	Sidewall	4	< 0.0044	< 0.0044	< 0.0088	< 0.0088	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	-	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.044 *
	FHARF-7/8-S9(4.0)	11/08/2013	Sidewall	4	< 0.0048	< 0.0048	< 0.0096	< 0.0096	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	-	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.048
	FHARF-7/8-S10(4.0)	11/08/2013	Sidewall	4	< 0.0049	< 0.0049	< 0.0098	< 0.0098	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	-	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.049
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**-**	**0.023**	**0.077**	**0.033**	**-**	**-**	**1.5**	**-**	**0.42**	**2.9**	**100**	**0.67**	**-**	**5**	**-**	**-**	**-**

Notes:
1. Constituents that were not detected during initial round of sampling were
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

b = ESL for Chromium III
c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier

TABLE 28
AOC 5 - EX 7/8
SUMMARY OF ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Volatile Organic Compounds (mg/Kg)		Inorganic Compounds (mg/Kg)				
Location	**Sample Name**	**Sample Date**	**Sample Type**	**Sample Depth (bgs)**	**Vinyl chloride**	**Xylene (total)**	**Cadmium**	**Chromium**	**Lead**	**Nickel**	**Zinc**
FHARF-7/8 Excavation	**FHARF-7/8-B1(5)**	10/18/2013	Bottom	5	< 0.0045	< 0.009	< 0.33	70	8.4	93	56
	FHARF-7/8-B3(5.0)	11/08/2013	Bottom	5	< 0.0049	< 0.0098	< 0.47	59	7.2	81	50
	FHARF-7/8-B4(8.0)	11/08/2013	Bottom	8	< 0.0049	< 0.0098	< 0.39	68	8.5	94	56
	FHARF-7/8-B5(8.0)	11/08/2013	Bottom	8	< 0.0047	< 0.0094	< 0.42	68	7.4	91	52
	FHARF-7/8-S1(2.5)	10/18/2013	Sidewall	2.5	< 0.0045	< 0.0091	< 0.26	52	6.7	78	42
	FHARF-7/8-S2(2.5)	10/18/2013	Sidewall	2.5	< 0.0047	< 0.0093	< 0.34	43	18	57	44
	FHARF-7/8-S5(2.5)	10/18/2013	Sidewall	2.5	< 0.0046	< 0.0092	< 0.27	48	33	56	80
	FHARF-7/8-S6(2.5)	10/18/2013	Sidewall	2.5	< 0.0047	< 0.0095	< 0.3	75	5.6	95	67
	FHARF-7/8-S7(4.0)	11/08/2013	Sidewall	4	< 0.005	< 0.01	< 0.44	48	5.5	51	38
	FHARF-7/8-S8-(4.0)	11/08/2013	Sidewall	4	< 0.0044	< 0.0088	< 0.49	37	6.2	53	37
	FHARF-7/8-S9(4.0)	11/08/2013	Sidewall	4	< 0.0048	< 0.0096	< 0.47	38	5.3	55	39
	FHARF-7/8-S10(4.0)	11/08/2013	Sidewall	4	< 0.0049	< 0.0098	< 0.4	33	6.8	51	36
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**0.0082**	**2.3**	**39**	**120000** [b]	**80**	**820** [c]	**23000**

Notes:
1. Constituents that were not detected during initial round of sampling were
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

b = ESL for Chromium III
c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier

TABLE 29
AOC 5 - EX 9
SUMMARY OF FHARF-9 ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Semi-Volatile Organic Compounds (SIM) (mg/Kg)															
Location	**Sample Name**	**Sample Type**	**Sample Depth (bgs)**	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene**	**Benzo(a)anthracene**	**Benzo(a)pyrene**	**Benzo(b)fluoranthene**	**Benzo(g,h,i)perylene**	**Benzo(k)fluoranthene**	**Chrysene**	**Dibenz(a,h)anthracene**	**Fluoranthene**	**Fluorene**	**Indeno(1,2,3-cd)pyrene**	**Naphthalene**	**Phenanthrene**	**Pyrene**
FHARF-9 Excavation	**FHARF-9-B1(3)**	Bottom	3	10/17/2013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	FHARF-9-S4(1.5)	Sidewall	1.5	10/17/2013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	FHARF-9-S5(1.5)	Sidewall	1.5	11/08/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FHARF-9-S7(1.5)	Sidewall	1.5	11/08/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FHARF-9-S8(1.5)	Sidewall	1.5	11/25/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**16**	**13**	**-**	**0.16**	**0.016**	**0.16**	**2.5**	**1.6**	**3.8**	**0.016**	**60**	**8.9**	**0.16**	**0.033**	**11**	**85**

1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

b = ESL for Chromium III
c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 29
AOC 5 - EX 9
SUMMARY OF FHARF-9 ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Total Petroleum Hydrocarbons (mg/Kg)			Volatile Organic Compounds (mg/Kg)												
Location	**Sample Name**	**Sample Type**	**Sample Depth (bgs)**	**Sample Date**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**	**Total Petroleum Hydrocarbons-Stoddard Solvent**	**1,1,1,2-Tetrachloroethane**	**1,1,1-Trichloroethane**	**1,1,2,2-Tetrachloroethane**	**1,1,2-Trichloroethane**	**1,1-Dichloroethane**	**1,1-Dichloroethene**	**1,1-Dichloropropene**	**1,2,3-Trichlorobenzene**	**1,2,3-Trichloropropane**	**1,2,4-Trichlorobenzene**	**1,2,4-Trimethylbenzene**	**1,2-Dibromo-3-chloropropane (DBCP)**	**1,2-Dibromoethane (Ethylene Dibromide)**
FHARF-9 Excavation	**FHARF-9-B1(3)**	Bottom	3	10/17/2013	62	240	-	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048
	FHARF-9-S4(1.5)	Sidewall	1.5	10/17/2013	84	330	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	FHARF-9-S5(1.5)	Sidewall	1.5	11/08/2013	100	390	< 5	-	-	-	-	-	-	-	-	-	-	-	-	-
	FHARF-9-S7(1.5)	Sidewall	1.5	11/08/2013	66	280	< 3	-	-	-	-	-	-	-	-	-	-	-	-	-
	FHARF-9-S8(1.5)	Sidewall	1.5	11/25/2013	20	88	-	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**230**	**5100**	**100**	**0.18**	**7.8**	**0.018**	**0.07**	**0.2**	**0.55**	**-**	**-**	**-**	**1.5**	**-**	**0.0045**	**0.00033**

1. Constituents that were not detected during initial round of sampling were exclu
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

b = ESL for Chromium III
c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 E

TABLE 29
AOC 5 - EX 9
SUMMARY OF FHARF-9 ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

Location	Sample Name	Sample Type	Sample Depth (bgs)	Sample Date	Volatile Organic Compounds (mg/Kg)															
					1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (Methyl Ethyl Ketone)	2-Chlorotoluene	2-Hexanone	2-Phenylbutane (sec-Butylbenzene)	4-Chlorotoluene	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	Acetone	Benzene
FHARF-9 Excavation	**FHARF-9-B1(3)**	Bottom	3	10/17/2013	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.048	< 0.0048	< 0.048	< 0.0048	< 0.0048	< 0.048	< 0.048	< 0.0048
	FHARF-9-S4(1.5)	Sidewall	1.5	10/17/2013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.005	< 0.05	< 0.005	< 0.005	< 0.05	< 0.05	< 0.005
	FHARF-9-S5(1.5)	Sidewall	1.5	11/08/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FHARF-9-S7(1.5)	Sidewall	1.5	11/08/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FHARF-9-S8(1.5)	Sidewall	1.5	11/25/2013	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.049 *	< 0.0049	< 0.049	< 0.0049	< 0.0049	< 0.049	< 0.049	< 0.0049
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**1.6**	**0.0045**	**0.12**	**-**	**7.4**	**0.059**	**0.59**								**0.5**	**0.044**

1. Constituents that were not detected during initial round of sampling were exclu
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

b = ESL for Chromium III
c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 E

TABLE 29
AOC 5 - EX 9
SUMMARY OF FHARF-9 ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

Location	Sample Name	Sample Type	Sample Depth (bgs)	Sample Date	Volatile Organic Compounds (mg/Kg)															
					Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane (Methyl Bromide)	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform (Trichloromethane)	Chloromethane (Methyl Chloride)	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene (p-Isopropyltoluene)	Dibromochloromethane	Dibromomethane
FHARF-9 Excavation	**FHARF-9-B1(3)**	Bottom	3	10/17/2013	< 0.0048	< 0.0048	< 0.0048	< 0.0097	< 0.0048	< 0.0048	< 0.0048	< 0.019	< 0.0097	< 0.0048	< 0.0097	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0097
	FHARF-9-S4(1.5)	Sidewall	1.5	10/17/2013	< 0.005	< 0.005	< 0.005	< 0.0099	< 0.005	< 0.005	< 0.005	< 0.02	< 0.0099	< 0.005	< 0.0099	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0099
	FHARF-9-S5(1.5)	Sidewall	1.5	11/08/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FHARF-9-S7(1.5)	Sidewall	1.5	11/08/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FHARF-9-S8(1.5)	Sidewall	1.5	11/25/2013	< 0.0049	< 0.0049	< 0.0049	< 0.0097	< 0.0049	< 0.0049	< 0.0049	< 0.019	< 0.0097	< 0.0049	< 0.0097	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0097
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**-**	**0.52**	**1.7**	**0.3**	**-**	**0.048**	**1.5**	**-**	**1.1**	**0.068**	**29**	**0.19**	**-**	**-**	**-**	**-**

1. Constituents that were not detected during initial round of sampling were exclu
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

b = ESL for Chromium III
c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 E

TABLE 29
AOC 5 - EX 9
SUMMARY OF FHARF-9 ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

Location	Sample Name	Sample Type	Sample Depth (bgs)	Sample Date	Volatile Organic Compounds (mg/Kg)															
					Dichlorodifluoromethane (CFC-12)	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methyl Tert Butyl Ether	Methylene chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	Total Petroleum Hydrocarbons (C5-C12) GRO	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene
FHARF-9 Excavation	**FHARF-9-B1(3)**	Bottom	3	10/17/2013	< 0.0097	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0097	< 0.0097	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	-	< 0.0048	< 0.0048
	FHARF-9-S4(1.5)	Sidewall	1.5	10/17/2013	< 0.0099	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0099	< 0.0099	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	< 0.005	< 0.005
	FHARF-9-S5(1.5)	Sidewall	1.5	11/08/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FHARF-9-S7(1.5)	Sidewall	1.5	11/08/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FHARF-9-S8(1.5)	Sidewall	1.5	11/25/2013	< 0.0097	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0097	< 0.0097	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.0049	< 0.24	< 0.0049	< 0.0049
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**-**	**1.4**	**0.68**	**-**	**0.023**	**0.077**	**0.033**	**-**	**-**	**1.5**	**-**	**0.42**	**2.9**	**100**	**0.67**	**-**

1. Constituents that were not detected during initial round of sampling were exclu
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

b = ESL for Chromium III
c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 E

TABLE 29
AOC 5 - EX 9
SUMMARY OF FHARF-9 ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Volatile Organic Compounds (mg/Kg)						Inorganic Compounds (mg/Kg)				
Location	**Sample Name**	**Sample Type**	**Sample Depth (bgs)**	**Sample Date**	**Trichloroethene**	**Trichlorofluoromethane (CFC-11)**	**Trifluorotrichloroethane (Freon 113)**	**Vinyl acetate**	**Vinyl chloride**	**Xylene (total)**	**Cadmium**	**Chromium**	**Lead**	**Nickel**	**Zinc**
FHARF-9 Excavation	**FHARF-9-B1(3)**	Bottom	3	10/17/2013	< 0.0048	< 0.0048	< 0.0048	< 0.048	< 0.0048	< 0.0097	< 0.46	83	12	100	56
	FHARF-9-S4(1.5)	Sidewall	1.5	10/17/2013	< 0.005	< 0.005	< 0.005	< 0.05	< 0.005	< 0.0099	< 0.43	93	20	100	73
	FHARF-9-S5(1.5)	Sidewall	1.5	11/08/2013	-	-	-	-	-	-	< 0.44	32	7.3	51	64
	FHARF-9-S7(1.5)	Sidewall	1.5	11/08/2013	-	-	-	-	-	-	< 0.5	43	11	59	56
	FHARF-9-S8(1.5)	Sidewall	1.5	11/25/2013	< 0.0049	< 0.0049	< 0.0049	< 0.049	< 0.0049	< 0.0097	< 0.43	53	7.4	100	52
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**5**	**-**	**-**	**-**	**0.0082**	**2.3**	**39**	**120000** [b]	**80**	**820** [c]	**23000**

1. Constituents that were not detected during initial round of sampling were exclu
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

b = ESL for Chromium III
c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 E

TABLE 30
AOC 5 - EX 12
SUMMARY OF FHARF-12 ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

					Total Petroleum Hydrocarbons (mg/Kg)			Inorganic Compounds (mg/Kg)				
Location	**Sample Name**	**Sample Type**	**Sample Depth (bgs)**	**Sample Date**	**Total Petroleum Hydrocarbons (C10-C28) DRO**	**Total Petroleum Hydrocarbons (C24-C36) Motor Oil**	**Total Petroleum Hydrocarbons Stoddard Solvent**	**Cadmium**	**Chromium**	**Lead**	**Nickel**	**Zinc**
FHARF-12 Excavation	**FHARF-12-B1(8)**	Bottom	8	10/17/2013	< 1	< 50	-	< 0.48	57	6.9	78	46
	FHARF-12-S2(4)	Sidewall	4	10/17/2013	28	66	-	< 0.5	25	4.1	36	33
	FHARF-12-S3(4)	Sidewall	4	10/17/2013	3.9	< 50	-	< 0.49	41	4.5	57	36
	FHARF-12-S4(4)	Sidewall	4	10/17/2013	13	< 49	-	< 0.5	26	5.3	43	35
	FHARF-12-S5(5.5)	Sidewall	5.5	11/08/2013	< 1	< 50	< 1	< 0.45	70	5.3	81	38
SFBRWQCB Tier 1 ESL for Soil (February 2016, Revision 3)					**230**	**5100**	**100**	**39**	**120000** [b]	**80**	**820** [c]	**23000**

Notes:
1. Constituents that were not detected during initial round of sampling were excluded from further analyses.
2. - Sample not analyzed for this constituent.
3. <RL Sample not detected above indicated reporting limit.

b = ESL for Chromium III
c = ESL for Direct Exposure Human Health, Residential Shallow Soil

TABLE 31

GROUNDWATER MONITORING WELL CONSTRUCTION DATA
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

Monitoring Well ID	AOC	Installation Date	Boring Hole Diameter (in)	Casing Diameter (in)	Approximate Total Well Depth (ft bgs)	Approximate Screened Interval (ft bgs)	Top of Casing Elevation (ft msl)
MW-KP-1	2	3/6/1991	8	Unknown	35.5	20-35.5	Unknown
MW-1	1	10/3/2007	8	2	60	45-60	374.67
MW-2	1	10/2/2007	8	2	60	45-60	376.33
MW-3	1	10/4/2007	8	2	60	45-60	374.95
MW-4	2	10/5/2007	8	2	48	43-48	372.94
MW-5	1	10/9/2007	8	2	74	69-74	374.35
MW-6	1	10/10/2007	8	2	55	45-55	375.03
MW-7	1	10/1/2007	8	2	65	50-65	377.68
MW-8	1	6/9/2008	8	2	61	51-61	378.6
MW-9	1	6/10/2008	8	2	52	42-52	375.75
MW-10	1	6/11/2008	8	2	54	44-54	375.62
ENV-1	3	3/7/2008	8	2	28.5 - 22.65	12.8-22.2	365.88
W-1 [a]	-	7/20/1965	30	14	625	195 -625	Unknown

Notes

a: Production well; Zone 7 Number 3F/1E 15F 3

TABLE 32
GROUNDWATER ELEVATION DATA
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

Monitoring Well ID	AOC	Top of Casing Elevation (ft msl)	Measurement Date	Depth to Groundwater (ft TOC)	Groundwater Elevation (ft msl)
MW-KP1	2	Unknown	3/8/1991	27.61	
			3/11/1991	27.62	
			3/18/1991	27.59	
			6/27/1991	27.7	
			10/29/1991	27.81	
			2/5/1992	27.77	
			5/11/1992	27.69	
			8/12/1992	27.79	
			11/23/1992	27.83	
			2/25/1993	26.54	
			2/15/1994	27.89	
			2/7/1995	27.61	
			2/16/1996	27.85	
MW-1	1	374.67	10/22/2007	57.22	317.45
			6/16/2008	57.35	317.32
			9/15/2008	57.59	317.08
			1/9/2009	57.79	316.88
			3/16/2009	55.92	318.75
MW-2	1	376.33	10/22/2007	55.24	321.09
			6/16/2008	55.39	320.94
			9/15/2008	55.73	320.6
			1/9/2009	56.05	320.28
			3/16/2009	54.56	321.77
MW-3	1	374.95	10/22/2007	54.32	320.63
			6/16/2008	54.53	320.42
			9/15/2008	54.74	320.21
			1/9/2009	55	319.95
			3/16/2009	53.64	321.31
MW-4	2	372.94	10/22/2007	47.37	325.57
			6/16/2008	48.77	324.17
			9/15/2008	48.71	324.23
			1/9/2009	48.85	DRY
			3/16/2009	48.54	DRY
MW-5	1	374.35	10/22/2007	68.4	305.95
			6/16/2008	70.16	304.19
			9/15/2008	70.16	304.19
			1/9/2009	75.04	299.31
			3/16/2009	71.36	302.99
MW-6	1	375.03	10/22/2007	49.19	325.84
			6/16/2008	49.34	325.69
			9/15/2008	49.49	325.54
			1/9/2009	49.67	325.36
			3/16/2009	48.89	326.14
MW-7	1	377.68	10/22/2007	57.04	320.64
			6/16/2008	57.21	320.47
			9/15/2008	57.79	319.89
			1/9/2009	58.14	319.54
			3/16/2009	56.54	321.14
MW-8	1	378.6	10/22/2007	--	NM
			6/16/2008	55.73	322.87
			9/15/2008	55.99	322.61
			1/9/2009	56.22	322.38
			3/16/2009	54.61	323.99
MW-9	1	375.75	10/22/2007	--	NM
			6/16/2008	51.48	324.27
			9/15/2008	51.71	324.04
			1/9/2009	51.88	323.87
			3/16/2009	50.45	325.3
MW-10	1	375.62	10/22/2007	--	NM
			6/16/2008	51.38	324.24
			9/15/2008	51.58	324.04
			1/9/2009	51.64	323.98
			3/16/2009	50.35	325.27
ENV-1	3	365.88	3/7/2008	15	350.88
			3/18/2008	15.7	350.18
			7/11/2008	--	DRY
			8/25/2008	22.39	343.49
			3/16/2009	14.26	351.62
			4/9/2009	15.6	350.28

TABLE 33
HISTORICAL GROUNDWATER ANALYTICAL DATA - MONITORING WELLS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

			Total Petroleum Hydrocarbons (TPH) (µg/L)			BTEX (µg/L)		Other Volatile Organic Compounds (VOCs) (µg/L)		Semi-Volatile Organic Compounds (SVOCs) (µg/L)		Dissolved Metals (µg/L)		
Monitoring Well ID	AOC	Date	TPHd	TPHmo	TPHg	Toluene	Other BTEX Constituents	Fuel Oxygenates	Lead Scavengers	Bis(2-ethylhexyl)phthalate	Other SVOCs	Barium	Copper	Other Dissolved Metals
MW-KP1	2	3/11/1991	**1600**	-	ND	ND	ND	-	-	-	-	-	-	-
		6/27/1991	ND	-	ND	ND	ND	-	-	-	-	-	-	-
		10/29/1991	**660**	-	ND	ND	ND	-	-	-	-	-	-	-
		2/5/1992	ND	-	ND	ND	ND	-	-	-	-	-	-	-
		5/11/1992	**180** +	-	ND	ND	ND	-	-	-	-	-	-	-
		8/12/1992	ND	-	ND	ND	ND	-	-	-	-	-	-	-
		11/23/1992	**330**	-	-	-	-	-	-	-	-	-	-	-
		2/25/1993	**130**	-	-	-	-	-	-	-	-	-	-	-
		2/15/1994	ND	-	-	-	-	-	-	-	-	-	-	-
		2/7/1995	ND	-	-	-	-	-	-	-	-	-	-	-
		2/16/1996	ND	-	-	-	-	-	-	-	-	-	-	-
W-1	-	2/1/2007	ND	ND	ND	ND	ND	-	-	-	-	37	ND	ND
MW-1	1	10/22/2007	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-
		6/16/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		9/15/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		1/13/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		3/16/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
MW-2	1	10/22/2007	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-
		6/16/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		9/15/2008	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	**9.8** / ND	ND/ND	-	-	-
		1/9/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		3/17/2009	ND*	ND*	ND*	ND	ND	ND	ND	ND	ND	-	-	-
MW-3	1	10/22/2007	ND/ND	ND/ND	ND/ND	0.3 J/0.3 J	ND/ND	ND/ND	ND/ND	-	-	-	-	-
		6/16/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		9/16/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	160	ND	ND
		1/13/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		3/16/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
MW-4 (Dry)	2	10/22/2007	DRY											
		6/16/2008												
		9/15/2008												
		1/9/2009												
		3/17/2009												
MW-5	1	10/22/2007	ND	ND	ND	0.4 J	ND	ND	ND	-	-	-	-	-
		6/16/2008	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	-	-	-
		9/15/2008	-	-	-	-	-	-	-	-	-	-	-	-
		1/9/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		3/17/2009	ND*	ND*	ND*	ND	ND	ND	ND	ND	ND	-	-	-

TABLE 33
HISTORICAL GROUNDWATER ANALYTICAL DATA - MONITORING WELLS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

			Total Petroleum Hydrocarbons (TPH) (µg/L)			BTEX (µg/L)		Other Volatile Organic Compounds (VOCs) (µg/L)		Semi-Volatile Organic Compounds (SVOCs) (µg/L)		Dissolved Metals (µg/L)		
Monitoring Well ID		Date	TPHd	TPHmo	TPHg	Toluene	Other BTEX Constituents	Fuel Oxygenates	Lead Scavengers	Bis(2-ethylhexyl)phthalate	Other SVOCs	Barium	Copper	Other Dissolved Metals
MW-6	1	10/22/2007	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-
		6/16/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		9/15/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		1/13/2009	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	-	-	-
		3/17/2009	ND*	ND*	ND*	ND	ND	ND	ND	ND	ND	-	-	-
MW-7	1	10/22/2007	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-
		6/16/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		9/16/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		1/13/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		3/17/2009	ND*	ND*	ND*	ND	ND	ND	ND	ND	ND	-	-	-
MW-8	1	6/16/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		9/16/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	230	ND	ND
		1/12/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		3/17/2009	ND/ND*	ND/ND*	ND/ND*	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	ND/ND	-	-	-
MW-9	1	6/16/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		9/16/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	150	**5**	ND
		1/9/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		3/17/2009	ND*	ND*	ND*	ND	ND	ND	ND	ND	ND	-	-	-
MW-10	1	6/16/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		9/16/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		1/13/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
		3/17/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
ENV-1	3	3/13/2008	ND	ND	ND	ND	ND	-	-	-	-	-	-	-
		7/11/2008	DRY											
		8/25/2008	WATER LEVEL BELOW SCREENED INTERVAL											
		3/16/2009	78	ND	ND	ND	ND	-	-	-	-	-	-	-
		4/9/2009	81	ND	ND	ND	ND	-	-	-	-	-	-	-
SFBRWQCB Tier 1 ESL for Groundwater (February 2016, Revision 3)			100	-	100	40	NA	NA	NA	4	NA	1000	3.1	NA

TABLE 33
HISTORICAL GROUNDWATER ANALYTICAL DATA - MONITORING WELLS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

Notes
1. Environmental Screening Levels (ESLs) by San Francisco Bay Regional Water Quality Control Board, February 2016 (Revision 3)
2. Detections above the applicable ESL are indicated in **BOLD**.
3. ND = Not detected
4. - = Sample not analyzed for this constituent.
5. + = Laboratory report indicates that compounds in the kerosene range were present in the sample, all hydrocarbons were quantified as if they were within the diesel range
6. * = Samples did not have silica-gel cleanup prior to TPH analysis.

Notes
7. J = Reported concentration is estimated below the laboratory reporting limit.
8. BTEX = benzene, toluene, ethylbenzene, and xylenes
9. MW 3S/1E 15F 3 (sample ID W-1) was sampled by ENV America, Inc. (ENV America). Data was reported in their February 2007 report, "Additional Soil and Groundwater Investigation Report".
10. MW-1 through MW-10 were sampled by LFR, Inc. (LFR). Data was summarized in LFR's 11 May 2009 report, "Groundwater Monitoring Report January 1 through March 31,2009. Former Hot Mix Asphalt Plant Area (AOC #1)"
11. ENV-1 was sampled by ENV America. Data was reported in their 17 April 2008 Report, "Groundwater Monitoring Well Installation, Development, Sampling, and Soil Excavation Report", 28 August 2008 report "Request for Postponement of Groundwater Monitoring Well Sampling", and 29 April 2009 report, "Groundwater Monitoring Well Sampling Report".

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 34
HISTORICAL GROUNDWATER ANALYTICAL DATA - GRAB SAMPLES
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

				Total Petroleum Hydrocarbons (TPH) (µg/L)			Volatile Organic Compounds (VOCs) (µg/L)					Dissolved Metals (µg/L)												
Sample Location	Sample ID	AOC	Date Sampled	TPHd	TPHmo	TPHg	Ethyl-Benzene	Total Xylenes	Acetone	Isopropylbenzene	Other VOCs	Arsenic	Barium	Beryllium	Cobalt	Chromium	Copper	Molybdenum	Nickel	Lead	Antimony	Vanadium	Zinc	Other Metals
EB1	EB1-W	2	9/28/2006	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EB2	EB2-W	2	9/29/2006	79	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EB-15	EB-15W	1	10/19/2006	ND	ND	ND	ND	ND	-	-	-	ND	360	ND	**7.1**	6.8	ND	ND	8.3	ND	ND	8.2	ND	ND
EB-16	EB-16W	1	10/20/2006	ND	ND	ND	ND	ND	-	-	-	ND	670	ND	**10**	5.2	**8.6**	6.5	**14**	**7.6**	ND	7.6	**110**	ND
EB-22	EB-22W	1	10/20/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	390	ND	ND	ND	ND	ND	5.5	ND	ND	ND	ND	ND
EB-29	EB-29W	1	10/25/2006	**150**	**850**	ND	ND	ND	ND	ND	ND	ND	100	ND	ND	**990**	ND	53	ND	ND	ND	16	78	ND
EB-21	GGW-21	1	11/15/2006	ND	ND	-	-	-	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
EB-22	GGW-22	2	11/15/2006	**1700**	ND	-	0.59	1.2	ND	2.5	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
EB-23	GGW-23	3	11/16/2006	ND	ND	-	-	-	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
EB35	EB35-GW	3	1/10/2007	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS(78)	SS(78)-W	3	2/1/2007	ND	ND	ND	-	-	-	-	-	ND	180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SS(105)	SS(105)	3	1/20/2007	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS(128)	SS(128)-GW	4	1/10/2007	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SS(130)	SS(130)-W	5	1/30/2007	ND	ND	ND	ND	ND	-	-	-	5.6	220	ND	ND	10	ND	8.5	**15**	ND	**8**	5.2	ND	ND
CPT1	CPT1	2	1/3/2007	ND	-	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT2	CPT2	2	1/3/2007	ND	-	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT3	CPT3	2	1/5/2007	50	-	50	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CPT4	CPT4	2	1/5/2007	50	-	50	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-1	B-1(A)-GGW	3	7/18/2007	79 HY	**1100 H**	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
EB-31(B)	EB-31(B)-GGW	2	7/16/2007	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
B-25	B-25-GGW	1	10/8/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1700**	ND	**29**	12	**28**	ND	**55**	**6.9**	ND	**24**	31	ND
B-26	B-26-GGW	1	10/9/2007	ND	ND	ND	ND	ND	ND	ND	ND	**100**	**2700**	**5.3**	**180**	**850**	**480**	6.1	**1400**	**100**	ND	**460**	**700**	ND
B-27	B-27-GGW	1	10/9/2007	52 Y	ND	ND	ND	ND	ND	ND	ND	**56**	**2400**	**3.6**	**130**	**520**	**290**	ND	**780**	**61**	ND	**280**	**400**	ND
B-28	B-28-GGW	1	10/4/2007	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
B-29	B-29-GGW	1	10/5/2007	**350**	ND	28 J	ND	ND	7.0 J	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	MW-4-GGW	2	10/5/2007	57 Y	**250**	ND	ND	ND	7.8 J	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5A	MW-5A-GGW	2	10/8/2007	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
SFBRWQCB Tier 1 ESL for Groundwater (February 2016, Revision 3)				100	-	100	13	20	1500	NA	NA	10	1000	2.7	3	50	3.1	100	8.2	2.5	6	19	81	NA

Notes

1. Environmental Screening Levels (ESLs) by San Francisco Bay Regional Water Quality Control Board, February 2016 (Revision 3)
2. Detections above the applicable ESL are indicated in **BOLD**.
3. ND = Not detected
4. - = Sample not analyzed for this constituent.
5. J = Reported concentration is estimated below the laboratory reporting limit.
6. H = Heavier hydrocarbons contributed to the quantitation.
7. Y = Sample exhibits chromatographic pattern which does not resemble standard.
8. NA = Not Applicable
9. Locations EB1, EB2, EB-15, EB-16, EB-22, and EB-29 were sampled by ENV America, Inc. (ENV America). Data was reported in their November 2006 report, "Draft Phase II Environmental Site Assessment".
10. Locations EB-21, EB-22, and EB-23 were sampled by LFR, Inc. (LFR). Data was reported in their 5 December 2006 report, "Summary Report of Additional Phase II ESA Investigation at the Former Asphalt Plant Area".
11. Locations EB35, SS(78), SS(105), SS(128), and SS(130) were sampled by ENV America. Data was reported in their February 2007 report, "Additional Soil and Groundwater Investigation Report".
12. Locations CPT1, CPT2, CPT3, and CPT4 were sampled by Baseline Engineering. Data is reported in Alameda County Environmental Health's (ACEH) 12 June 2007 report, "Remedial Action Completion Certificate".
13. Locations B-1 and EB-31(B) were sampled by LFR. Data was reported in their 26 October 2007 report, "Site Investigation for the Eastern Portion of AOC #2 and AOCs #3 through #9".
14. Locations B-25, B-26, B-27, B-28, B-29, MW-4, and MW-5A were sampled by LFR. Data was reported in their 21 December 2007 report, "Additional Site Investigation Report for the Former Hot Mix Asphalt Place Area (AOC #1)".

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 35
PRODUCTION WELL - SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

Location	Tier 1 Groundwater ESLs[1]	440-139961-1
Sample Date		3/3/2016
Gasoline Range Organics (GRO) (µg/L)		
GRO (C4-C12)	100	< 25
Diesel Range Organics (DRO) (µg/L)		
C13-C22	100	< 95
C23-C40	--	< 95
Volatile Organic Compounds (VOCs) (µg/L)		
1,1,1-Trichloroethane	62	< 0.20
1,1,2,2-Tetrachloroethane	1.0	< 0.20
1,1,2-Trichloro-1,2,2-trifluoroethane	--	<1.0
1,1,2-Trichloroethane	5.0	< 0.20
1,1-Dichloroethane	5.0	< 0.11
1,1-Dichloroethene	3.2	< 0.20
1,2-Dibromo-3-Chloropropane	0.20	< 0.0027
1,2-Dibromoethane (Ethylene Dibromide)	0.050	< 0.0037
1,2-Dichlorobenzene	14	< 0.20
1,2-Dichloroethane	0.5	< 0.20
1,2-Dichloropropane	5.0	< 0.20
1,3-Dichloropropene, Total	0.50	< 0.20
1,4-Dichlorobenzene	5.0	< 0.20
Benzene	1.0	< 0.20
Bromodichloromethane	80	< 0.20
Bromoform	80	< 0.20
Carbon tetrachloride	0.22	< 0.20
Chlorobenzene	25	< 0.20
Chloroform (Trichloromethane)	2.3	< 0.50
cis-1,2-Dichloroethene	6.0	< 0.20
Dibromochloromethane	46	< 0.20
Ethylbenzene	13	< 0.20
m,p-Xylene	20 (total)	< 2.0
Methyl Tert Butyl Ether (MTBE)	5.0	< 0.20
Methylene chloride	5.0	< 0.40
o-Xylene	20 (total)	< 0.20
Styrene	10	< 0.20
Tetrachloroethene	3.0	< 0.20
Toluene	40	0.76
trans-1,2-Dichloroethene	10	< 0.20
Trichloroethene	5.0	< 0.20
Trichlorofluoromethane	--	< 0.20
Trihalomethanes, Total	--	< 1.0
Vinyl chloride	0.061	< 0.20
Xylene (total)	20	< 0.20
Metal Compounds (µg/L)		
Antimony, Dissolved	6.0	< 0.50
Aluminum	--	< 5.0
Arsenic, Dissolved	10	< 0.50
Barium, Dissolved	1000	210
Beryllium, Dissolved	2.7	< 0.25
Boron, Dissolved [mg/L]	0.0016	0.36 B
Cadmium, Dissolved	0.25	< 0.00021
Calcium [mg/L]	--	67
Chromium, Dissolved (Total)	50	0.98
Copper, Dissolved	3.1	1.6 J,B
Lead, Dissolved	2.5	< 0.00010
Magnesium	--	32
Manganese	--	2.2
Mercury, Dissolved (Elemental) [mg/L]	0.000051	< 0.00010
Nickel, Dissolved	8.2	0.84 J
Potassium [mg/L]	--	1.8
Selenium, Dissolved	5.0	<0.50
Silver, Dissolved	0.19	< 0.50
SiO2, Silica [mg/L]	--	18
Sodium [mg/L]	--	47
Thallium, Dissolved	2.0	< 0.50
Uranium	--	0.56 J
Hexavalent Chromium (Ion Chromatography) (µg/L)		
Chromium, Hexavalent	10	0.52 J
Polynuclear Aromatic Hydrocarbons (PAHs) (µg/L)		
Benzo(a)pyrene	0.014	< 0.010
Tetra Chlorinated Dioxin (pg/L)		
13C-2,3,7,8-TCDD	--	1200
2,3,7,8-TCDD (Dioxin)	0.000000014	< 0.85

TABLE 35
PRODUCTION WELL - SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

Location	Tier 1 Groundwater ESLs[1]	440-139961-1
Sample Date		3/3/2016
General Chemistry (mg/L)		
Alkalinity as CaCO3	--	200
Bicarbonate Alkalinity as CaCO3	--	200
Calcium Hardness as Calcium Carbonate	--	170
Carbonate Alkalinity as CaCO3	--	< 4.0
Chlorine, Total Residual	--	< 0.10 HF
Color, Apparent [color units]	--	< 1.0
Cyanide, Total	1.0	< 0.013
Hardness, as CaCO3	--	300
Hydroxide Alkalinity as CaCO3	--	< 4.0
Odor [T.O.N]	--	< 1.0
pH	--	7.57 HF
Specific Conductance [umhos/cm]	--	760
Total Dissolved Solids	--	490
Total Haloacetic Acids 5 [µg/L]	--	7.4
Total Organic Carbon	--	0.76
Turbidity [NTU]	--	0.37
Anions (Ion Chromatography) (mg/L)		
Chloride	--	92 J
Fluoride	--	0.32 J
Nitrate as N	--	0.52
Nitrate as NO3	--	2.3
Nitrate Nitrite as N	--	0.52
Nitrite as N	--	< 0.070
Sulfate	--	64 F1
Haloacetic Acids (HAAs) (µg/L)		
2,3-Dibromopropionic Acid	--	4.3
Dibromoacetic acid	--	< 0.25
Dichloroacetic acid	--	< 0.50
Monobromoacetic acid	--	< 0.50
Monochloroacetic acid	--	7.4
Trichloroacetic acid	--	< 0.25
Organochlorine Pesticides/PCBs (µg/L)		
Alachlor	--	< 0.092
Arochlor 1016	--	< 0.037
Arochlor 1221	--	< 0.083
Arochlor 1232	--	< 0.10
Arochlor 1242	--	< 0.14
Arochlor 1248	--	< 0.064
Arochlor 1254	--	< 0.046
Aroclor 1260	--	< 0.092
Atrazine	--	< 0.051
Chlordane (Technical)	0.00059	< 0.046
Endrin	0.0023	<0.0046
Gamma-BHC (Lindane)	0.016	< 0.0092
Heptachlor	0.00021	< 0.0046
Heptachlor Epoxide	0.00011	<0.0046
Methoxychlor	0.0030	< 0.046
Toxaphene	0.00020	< 0.46
Carbamate Pesticide (µg/L)		
3-Hydroxycarbofuran	--	< 0.50
Aldicarb	--	< 1.0
Aldicarb sulfone	--	< 1.0
Aldicarb sulfoxide	--	< 1.0
Carbaryl	--	< 0.50
Carbofuran	--	< 0.45
Methomyl	--	< 0.50
Oxamyl	--	< 1.0
Herbicides (µg/L)		
2,4,5-TP (Silvex)	--	< 0.10
2,4-D	--	<0.060
2,4-Dichlorophenylacetic acid	--	1.5
Bentazon	--	< 0.051
Dacthal acid metabolites	--	< 0.20
Dalapon	--	< 0.40
Dicamba	--	< 0.20
Dinoseb	--	< 0.10
Diquat	--	< 2.0
Endothall	--	< 3.8
Glyphosate	--	< 3.0
Paraquat	--	< 8.0
Picloram	--	< 0.050
Pentachlorophenol	1.0	< 0.20

TABLE 35
PRODUCTION WELL - SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER HANSON AGGREGATES RADUM FACILITY
PLEASANTON, CALIFORNIA

Location	Tier 1 Groundwater ESLs[1]	440-139961-1
Sample Date		3/3/2016
Semivolatile Organic Compounds (µg/L)		
1,3-Dimethyl-2-nitrobenzene	--	5.2
Alachlor	--	< 0.10
Di(2-ethylhexyl)adipate	--	< 0.31
Di(2-ethylhexyl)phthalate	4.0	< 0.31
Hexachlorobenzene	0.00077	< 0.051
Hexachlorocyclopentadiene	--	< 0.051
Molinate	--	< 0.51
Perylene-d12	--	5.1
Simazine	--	< 0.042
Thiobencarb	--	< 0.51
Triphenylphosphate	--	5.2
Perchlorate (µg/L)		
Perchlorate	6.0	< 0.50
Coliforms, Total and E.Coli		
Coliform, Total	--	Absent
Escherichia Coli	--	Absent
Radioactivity (pCi/L)		
Gross Alpha	--	-0.398 U, G
Gross Beta	--	2.11 U
Radium-226	--	0.147
Radium-228	--	-0.0799 U
Strontium-90	--	0.223 U
Tritium	--	10.4 U

Notes:
1. Tier 1 Environmental Screening Levels (ESLs) for Groundwater Screening Levels established by the San Francisco Bay Regional Water Quality Control Board (RWQCB), dated February 2016 (Rev 3)

2. Data qualified with a "J" indicated a low surrogate recovery, and the concentration is estimated.

3. Data qualified with a "B" indicated compound was found in the blank and sample.

4. Data qualified with a "F1" indicated matrix spike recovery is outside acceptable limits.

5. Data qualified with a "HF" indicated a field parameter with a holding time of 15 minutes that was performed at client's request.

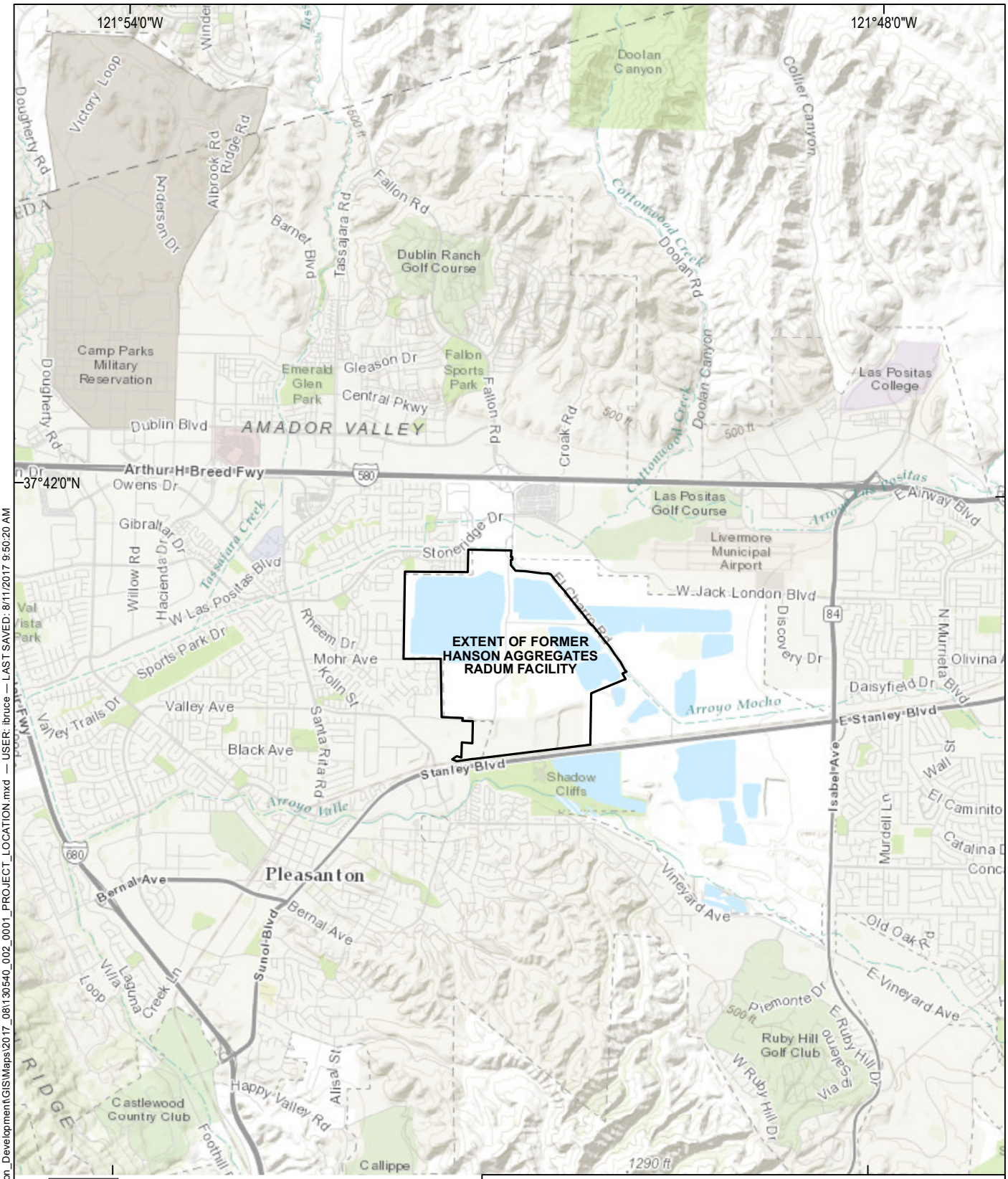
6. Data qualified with a "U" indicated the result is less than the sample detection limit.

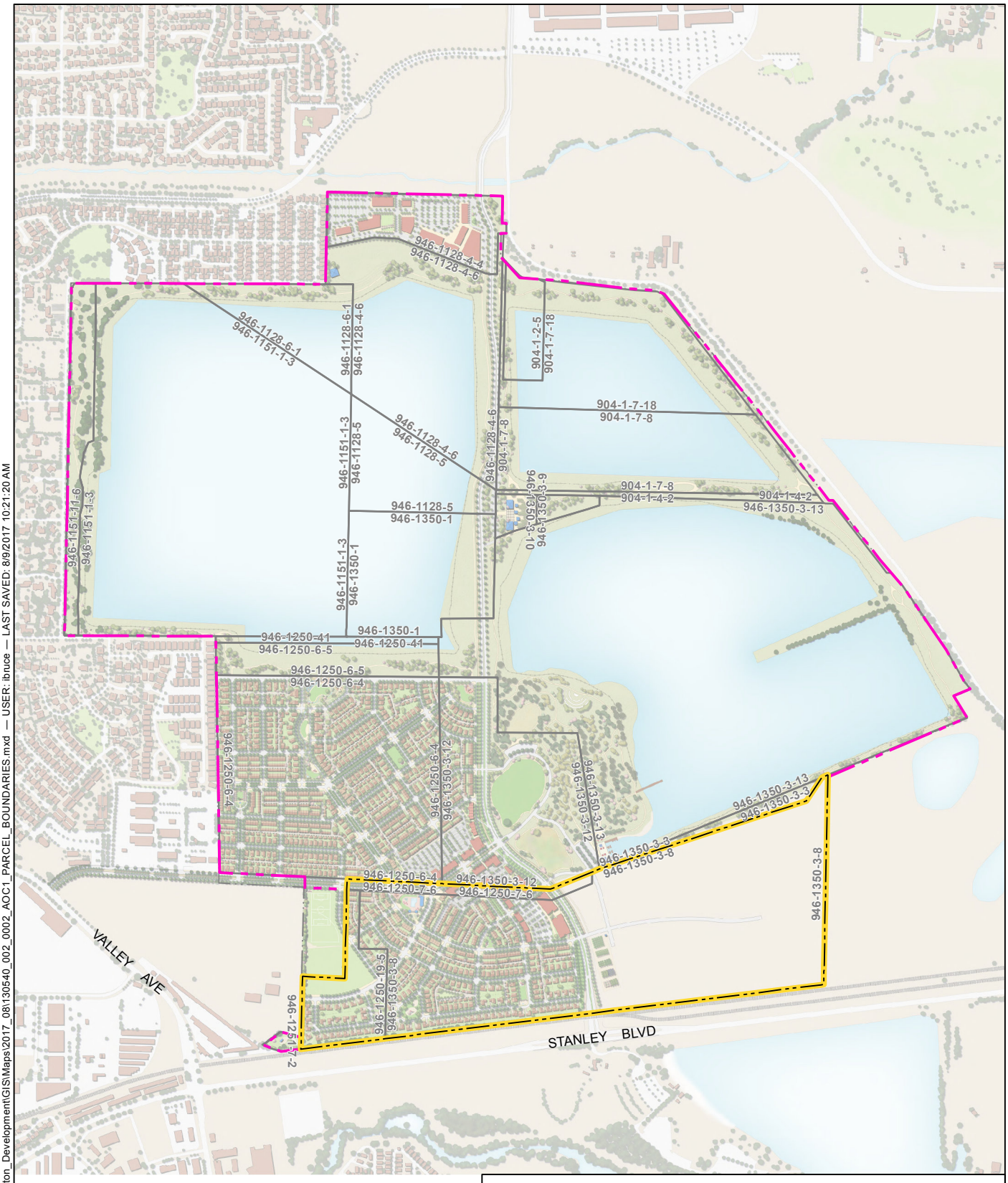
7. Data qualified with a "G" indicated the sample minimum detection concentration is greater than the requested reporting limit.

8. < X: analyte not detected at a concentration greater than or equal to laboratory reporting limit of X

mg/L: milligrams per liter
µg/L: micrograms per liter
Orange highlight indicates the reported quantity exceeds Tier 1 ESL
Green Highlight indicates Method Detection Limit exceeds Tier 1 ESL

FIGURES


121°54'0"W
121°48'0"W
37°42'0"N
EXTENT OF FORMER HANSON AGGREGATES RADUM FACILITY
Doolan Canyon
Collier Canyon
Victory Loop
Dougherty Rd
Arnaudson Dr
Albrook Rd
Ridge Rd
Barnet Blvd
Tassajara Rd
Fallon Rd
Dublin Ranch Golf Course
Cottonwood Creek
Doolan Rd
Camp Parks Military Reservation
Emerald Glen Park
Gleason Dr
Central Pkwy
Fallon Sports Park
Las Positas College
Dublin Blvd
AMADOR VALLEY
Croak Rd
Doolan Canyon
500 ft
Arthur H Breed Fwy
580
Owens Dr
Las Positas Golf Course
E Airway Blvd
Gibraltar Dr
Willow Rd
Hacienda Dr
Tassajara Creek
Stoneridge Dr
Livermore Municipal Airport
W Las Positas Blvd
W Jack London Blvd
Discovery Dr
84
N Murrieta Blvd
Olivina
Val Vista Park
Sports Park Dr
Rheem Dr
Mohr Ave
Kolln St
Daisyfield Dr
Arroyo Mocho
E Stanley Blvd
Valley Trails Dr
Valley Ave
Black Ave
Santa Rita Rd
Stanley Blvd
Shadow Cliffs
Isabel Ave
Wall St
El Caminito
Murdell Ln
Catalina
Arroyo Valle
680
Bernal Ave
Pleasanton
Vineyard Ave
Old Oak Rd
Sunol Blvd
Villa Laguna Creek Ln
Loop
E Vineyard Ave
Piemonte Dr
500 ft
Ruby Hill Golf Club
E Ruby Hill Dr
W Ruby Hill Dr
Via di Salerno
Happy Valley Rd
Alisal St
Castlewood Country Club
Foothill
Callippe
1290 ft
RIDGE
CA
N
MAP SOURCE: ESRI
USGS QUAD: LIVERMORE
SITE COORDINATES: 37°40'58"N, 121°50'55"W
HALEY ALDRICH
FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA
PROJECT LOCATION
APPROXIMATE SCALE: 1 IN = 1 MILE
AUGUST 2017
FIGURE 1
GIS FILE PATH: G:\130540_USL_Pleasanton_Development\GIS\Maps\2017_08\130540_002_0001_PROJECT_LOCATION.mxd — USER: ibruce — LAST SAVED: 8/11/2017 9:50:20 AM



LEGEND

- SITE BOUNDARY
- FORMER FACILITY BOUNDARY
- ALAMEDA COUNTY APN

N

0 650 1,300

SCALE IN FEET

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
1. PARCEL DATA SOURCE: ALAMEDA COUNTY
2. AERIAL IMAGERY SOURCE: ESRI

HALEY ALDRICH

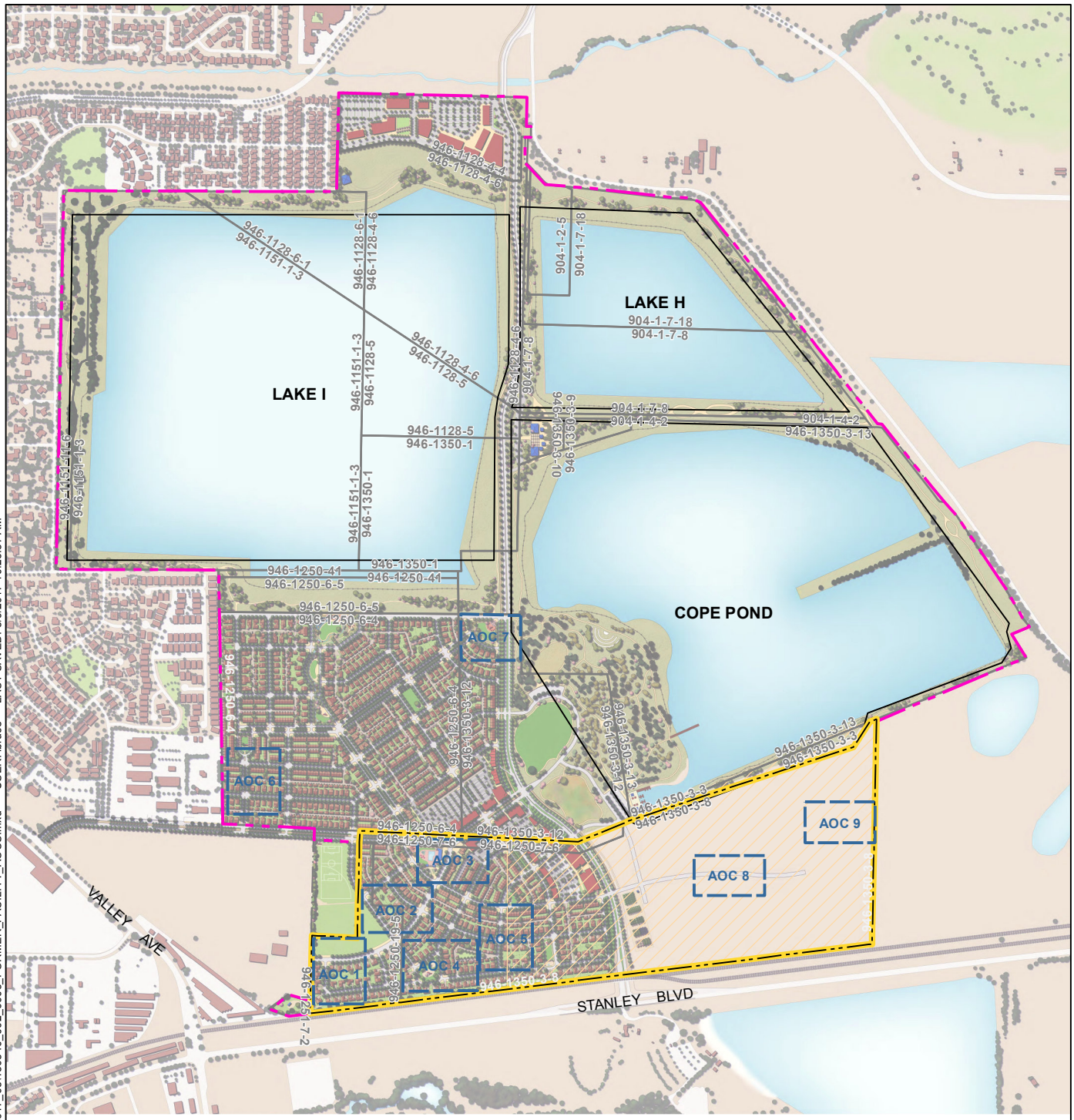
FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

FORMER FACILITY'S ALAMEDA COUNTY ASSESSOR PARCEL NUMBERS

AUGUST 2017

FIGURE 2

GIS FILE PATH: G:\130540_USL_Pleasanton_Development\GIS\Maps\2017_08\130540_002_0002_AOC1_PARCEL_BOUNDARIES.mxd — USER: ibruce — LAST SAVED: 8/9/2017 10:21:20 AM



LEGEND

- AREAS OF CONCERN
- SITE BOUNDARY
- FORMER FACILITY PARCELS
- FORMER FACILITY BOUNDARY
- ALAMEDA COUNTY APN
- NOT WITHIN CITY OF PLEASANTON'S URBAN GROWTH BOUNDARY

N

0 650 1,300
SCALE IN FEET

NOTES
1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. PARCEL DATA SOURCE: ALAMEDA COUNTY
3. AERIAL IMAGERY SOURCE: ESRI

HALEY ALDRICH

FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

FORMER FACILITY'S AREAS OF CONCERN

AUGUST 2017

FIGURE 3

GIS FILE PATH: G:\130540_USL_Pleasanton_Development\GIS\Maps\2017_08\130540_002_0003_FORMER_FACILITY_AOCS.mxd — USER: ibruce — LAST SAVED: 8/9/2017 10:26:37 AM

MW-1
MW-2
MW-3
MW-8
MW-9
20'x50' 6' Deep
20'x20' 6' Deep
20'x20' 6' Deep
20'x20' 8' Deep
20'x20' 5' Deep
15'x20' 6' Deep
15'x15' 4' Deep
15'x20' 2' Deep
40'x20' 8' Deep
20'x40' 6' Deep
20'x20' 4' Deep
370
375
Pile
FORMER SPRAY RACK AREA
FORMER 10,000-GALLON DIESEL UST (APPROX. LOCATION)
KIEWIT PROPERTY
FEED HOPPERS
STORAGE SHED
CONCRETE FOOTINGS
CF 1
CF 2
CF 3
CF 4
CF 5
CF 6
ESCAPE TUNNEL (60 FEET)
Dirt
MAIN TUNNEL (130 FEET)
TUNNEL ENTRANCE
PAVING OIL CONTAINMENT STRUCTURE
Oil FP
TRUCK SCALE
WEIGHT PLATES
CONCRETE FORMER DUST COLLECTOR
FORMER HOT MIX ASPHALT PLANT
SOIL PILE

LEGEND

- MW-1 — GROUNDWATER MONITORING WELL
- PROPERTY BOUNDARY
- FEATURE REMOVED AS PART OF CLOSURE/DEMOLITION PLAN
- APPROXIMATE AREA RELATED TO FORMER FACILITY
- 20' x 20' 5- Deep — INITIAL SOIL EXCAVATION AREA AND SIZE IN FEET

0 40 FEET

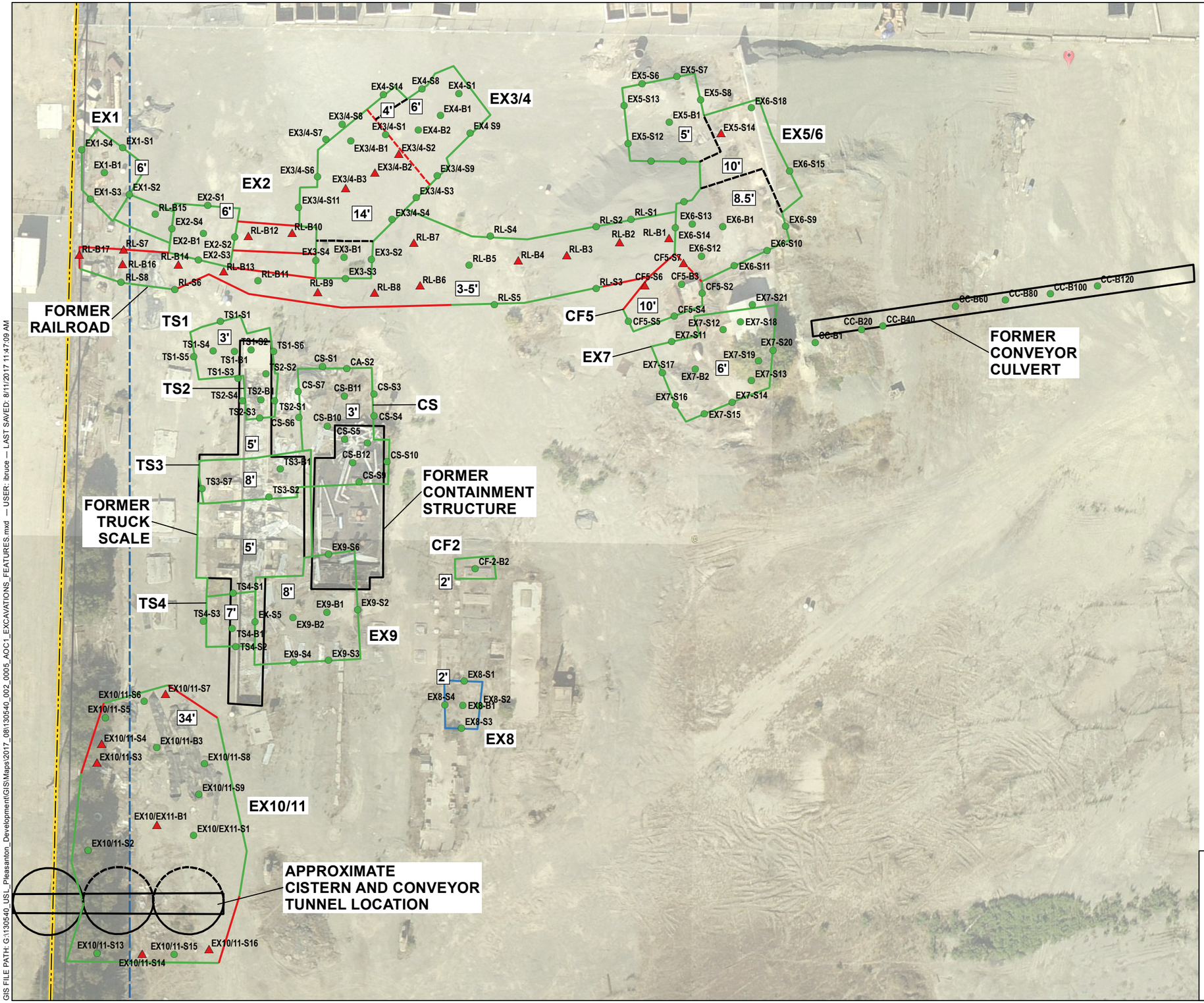
HALEY ALDRICH

FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

AOC 1 INITIAL FEATURES

SCALE: AS SHOWN
AUGUST 2017

FIGURE 4



LEGEND

- CONFIRMATION SAMPLE LOCATION (BELOW 2016 TIER 1 ESLs)
- CONFIRMATION SAMPLE LOCATION (EXCEEDS 2016 TIER 1 ESLs)
- CHANGE IN EXCAVATION DEPTH
- EXCAVATION SIDEWALL (BELOW 2016 TIER 1 ESLs)
- EXCAVATION SIDEWALL (EXCEEDS 2016 TIER 1 ESLs)
- EXCAVATION BACKFILLED
- FORMER FEATURE FOOTPRINT
- AREAS OF CONCERN (AOC)
- SITE BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. ASSESSOR PARCEL DATA SOURCE: ALAMEDA COUNTY
3. AERIAL IMAGERY SOURCE: PICTOMETRY, OCTOBER 2009
4. EXCAVATION DEPTH PROVIDED IN FEET BELOW GROUND SURFACE (BGS). EXCAVATION DEPTH VARIES, MAXIMUM DEPTH IS NOTED.

N

0 40 80

SCALE IN FEET

HALEY ALDRICH

FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

AOC 1 EXCAVATION AREAS

AUGUST 2017

FIGURE 5

GIS FILE PATH: G:\130540_USL_Pleasanton_Development\GIS\Maps\2017_08\130540_002_0005_AOC1_EXCAVATIONS_FEATURES.mxd — USER: ibruce — LAST SAVED: 8/11/2017 11:47:09 AM

AOC 2

EX 1

EX 2

EX 3/4

EX 5/6

CF5

RAILROAD EXCAVATION

CONVEYOR CULVERT

EX 7

TRUCK SCALE

CONTAINMENT STRUCTURE

CF2

EX 9

EX 8

EX 10/11 AREA

APPROXIMATE CISTERN LOCATIONS

AOC 1

946-1251-7-2

946-1250-19-5

LEGEND

- CHANGE IN EXCAVATION DEPTH
- EXCAVATION SIDEWALL (EXCEEDS 2016 TIER 1 ESLs)
- EXCAVATION SIDEWALL (BELOW 2016 TIER 1 ESLs)
- EXCAVATION BACKFILL COMPLETE
- FORMER FEATURE FOOTPRINT
- FORMER BUILDING FOOTPRINT
- AREAS OF CONCERN
- SCENARIO 2 AREA, 2016 ESLs ARE EXCEEDED DEEPER THAN 5 FEET BGS
- SCENARIO 3 AREA, 2016 ESLs ARE EXCEEDED SHALLOWER THAN 5 FEET BGS
- ALAMEDA COUNTY APN

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. BASE DATA SOURCE: MARE WALCOMB, CONCEPTUAL SITE PLAN, EL CHARRO RD, STEELWAVE, PLEASANTON, CA, SHEET 1, 4 MAY 2017.
3. ASSESSOR PARCEL DATA SOURCE: ALAMEDA COUNTY
4. AERIAL IMAGERY SOURCE: GOOGLE

N

0 80 160

SCALE IN FEET

HALEY ALDRICH

FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

AOC 1 SCENARIO MAP

AUGUST 2017

FIGURE 6

GIS FILE PATH: G:\130540_USL_Pleasanton_Development\GIS\Maps\2017_08\130540_002_0006_AOC1_SCENARIO.mxd — USER: ibruce — LAST SAVED: 8/11/2017 4:32:58 PM



LEGEND

- CONFIRMATION SAMPLE LOCATION (BELOW 2016 TIER 1 ESLs)
- CONFIRMATION SAMPLE LOCATION (EXCEEDS 2016 TIER 1 ESLs)
- BACKFILLED EXCAVATION
- FORMER FEATURE FOOTPRINT
- FORMER BUILDING/STRUCTURE FOOTPRINT

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. ASSESSOR PARCEL DATA SOURCE: ALAMEDA COUNTY
3. AERIAL IMAGERY SOURCE: ESRI
4. BASE DATA SOURCE: MARE WALCOMB, CONCEPTUAL SITE PLAN, EL CHARRO RD, STEELWAVE, PLEASANTON, CA, SHEET 1, 4 MAY 2017.

N

0 40 80

SCALE IN FEET

HALEY ALDRICH

FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

AOC 2 FEATURES AND EXCAVATIONS

AUGUST 2017

FIGURE 7

GIS FILE PATH: G:\130540_USL_Pleasanton_Development\GIS\Maps\2017_08\130540_002_0007_AOC2_EXCAVATIONS_FEATURES.mxd — USER: ibruce — LAST SAVED: 8/11/2017 11:56:31 AM



GIS FILE PATH: G:\130540_USL_Pleasanton_Development\GIS\Maps\2017_08\130540_002_0008_AOC2_FUEL_LINE_EXCAVATION_AREA.mxd — USER: lbruce — LAST SAVED: 8/11/2017 11:58:45 AM

LEGEND

- CONFIRMATION SAMPLE LOCATION (BELOW 2016 TIER 1 ESLs)
- PROPOSED BUILDING FOOTPRINT
- BACKFILLED EXCAVATION
- FORMER FEATURE FOOTPRINT
- FORMER BUILDING/STRUCTURE FOOTPRINT

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. ASSESSOR PARCEL DATA SOURCE: ALAMEDA COUNTY
3. AERIAL IMAGERY SOURCE: ESRI
4. BASE DATA SOURCE: MARE WALCOMB, CONCEPTUAL SITE PLAN, EL CHARRO RD, STEELWAVE, PLEASANTON, CA, SHEET 1, 4 MAY 2017.

N

0 60 120

SCALE IN FEET

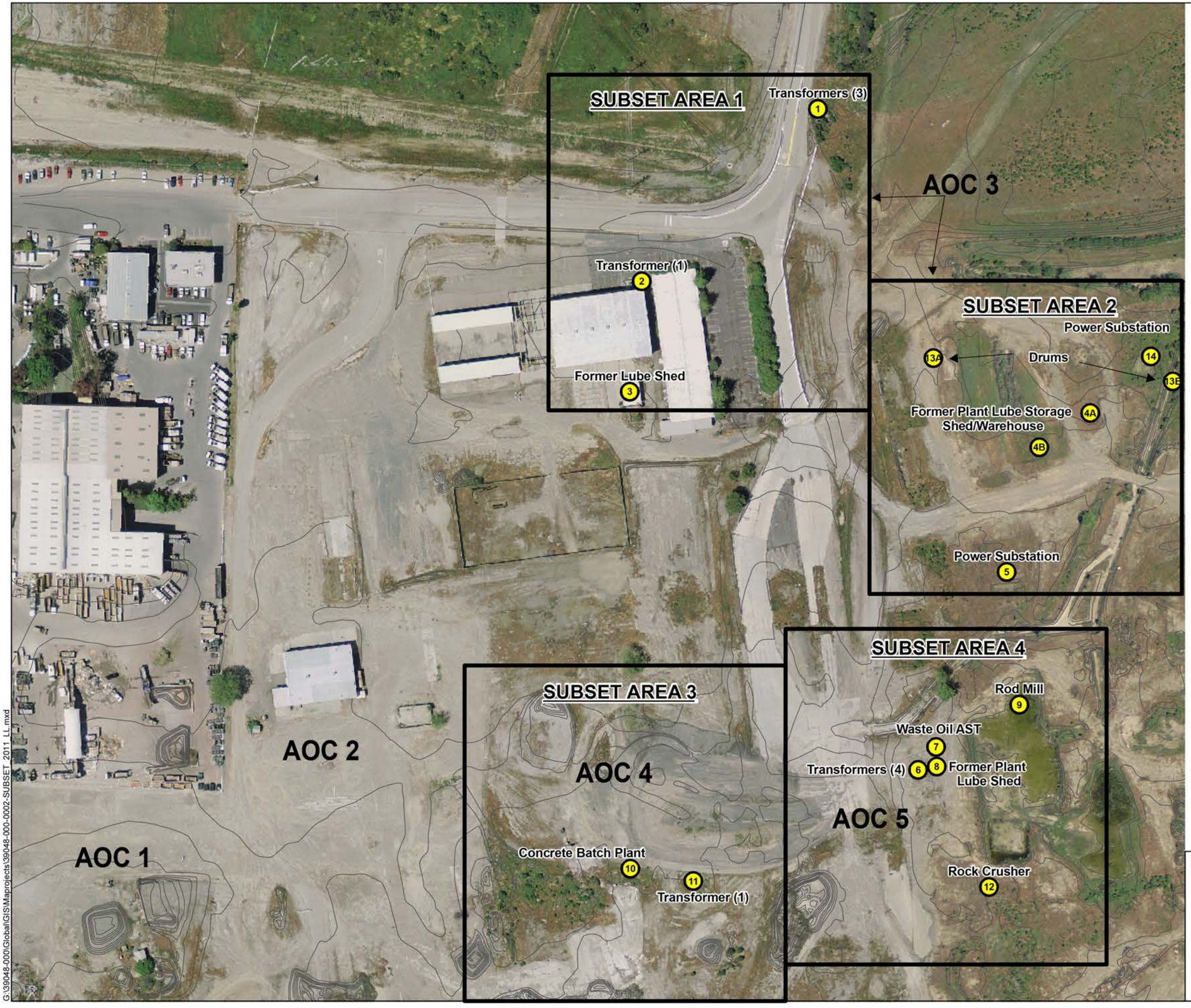
HALEY ALDRICH

FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

AOC 2 FUEL LINE EXCAVATION AREA

AUGUST 2017

FIGURE 8



LEGEND

1 FACILITY LOCATION AND DESIGNATION

ONE FOOT CONTOUR INTERVAL

Facility Designation	Location Description	Latitude, North	Longitude, West
1	Transformers (3)	121.850168	37.676149
2	Transformer (1)	121.851070	37.675427
3	Former Lube Shed	121.851123	37.674971
4A	Former Plant Lube Storage Shed	121.848734	37.674909
4B	Warehouse	121.848995	37.674765
5	Power Substation	121.849155	37.674250
6	Transformers (4)	121.849600	37.673427
7	Waste Oil AST	121.849507	37.673524
8	Former Plant Lube Shed	121.849503	37.673443
9	Rod Mill	121.849080	37.673703
10	Concrete Batch Plant	121.851084	37.673003
11	Transformer (1)	121.850757	37.672955
12	Rock Crusher	121.849223	37.672949
13A	Drum	121.849551	37.675127
13B	Drum	121.848306	37.675046
14	Power Substation	121.848423	37.675148

NOTES:
1. SAMPLING LOCATIONS ARE BASED ON INTERPRETATION OF FEATURES FROM HISTORICAL AERIAL IMAGES.
2. ALL COORDINATES ARE REPORTED IN GEOGRAPHIC COORDINATE SYSTEMS (GCS) IN DECIMAL DEGREES.
3. COORDINATES WERE EXTRACTED FROM GEOGRAPHICALLY REFERENCED AERIAL PHOTOGRAPHS.

REFERENCE :
AERIAL IMAGE PROVIDED AND GEOREFERENCED BY PHOTOSCIENCE INC.

N
W E
S

0 150 300
SCALE IN FEET

HALEY ALDRICH

FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

AOC 3 INITIAL FEATURES

SCALE: AS SHOWN
AUGUST 2017

FIGURE 9

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LEGEND

- 1 FACILITY LOCATION AND DESIGNATION
- 1-1 BORING LOCATION AND DESIGNATION
- GROUNDWATER MONITORING WELL
- ONE FOOT CONTOUR INTERVAL

Facility Designation	Boring Designation	Latitude, North	Longitude, West
1		121.850168	37.676149
	1-1	121.850147	37.676130
	1-3	121.850146	37.676154
2		121.851070	37.675427
	2-1	121.851070	37.675427
3		121.851123	37.674971
	3-1	121.851029	37.675056
	3-2	121.851018	37.674992
	3-3	121.851005	37.674928
	WR-1	121.851166	37.674896
	WR-2	121.851198	37.674894
	WR-3	121.851232	37.674893

NOTES:

1. SAMPLING LOCATIONS ARE BASED ON INTERPRETATION OF FEATURES FROM HISTORICAL AERIAL IMAGES.
2. ALL COORDINATES ARE REPORTED IN GEOGRAPHIC COORDINATE SYSTEMS (GCS) IN DECIMAL DEGREES.
3. COORDINATES WERE EXTRACTED FROM GEOGRAPHICALLY REFERENCED AERIAL PHOTOGRAPHS.
4. CELLS CONTAINING N/A ARE BORINGS THAT WILL BE LOCATED IF NEEDED, BASED ON RESULTS OF ORIGINAL BORINGS.
5. LOCATIONS 3-1, 3-2, AND 3-3 ARE THE CENTRAL LOCATIONS OF EXCAVATION TRENCHES.

REFERENCE :
AERIAL IMAGE PROVIDED AND GEOREFERENCED BY PHOTOSCIENCE INC.

N
W E
S

0 50 100
SCALE IN FEET

HALEY ALDRICH

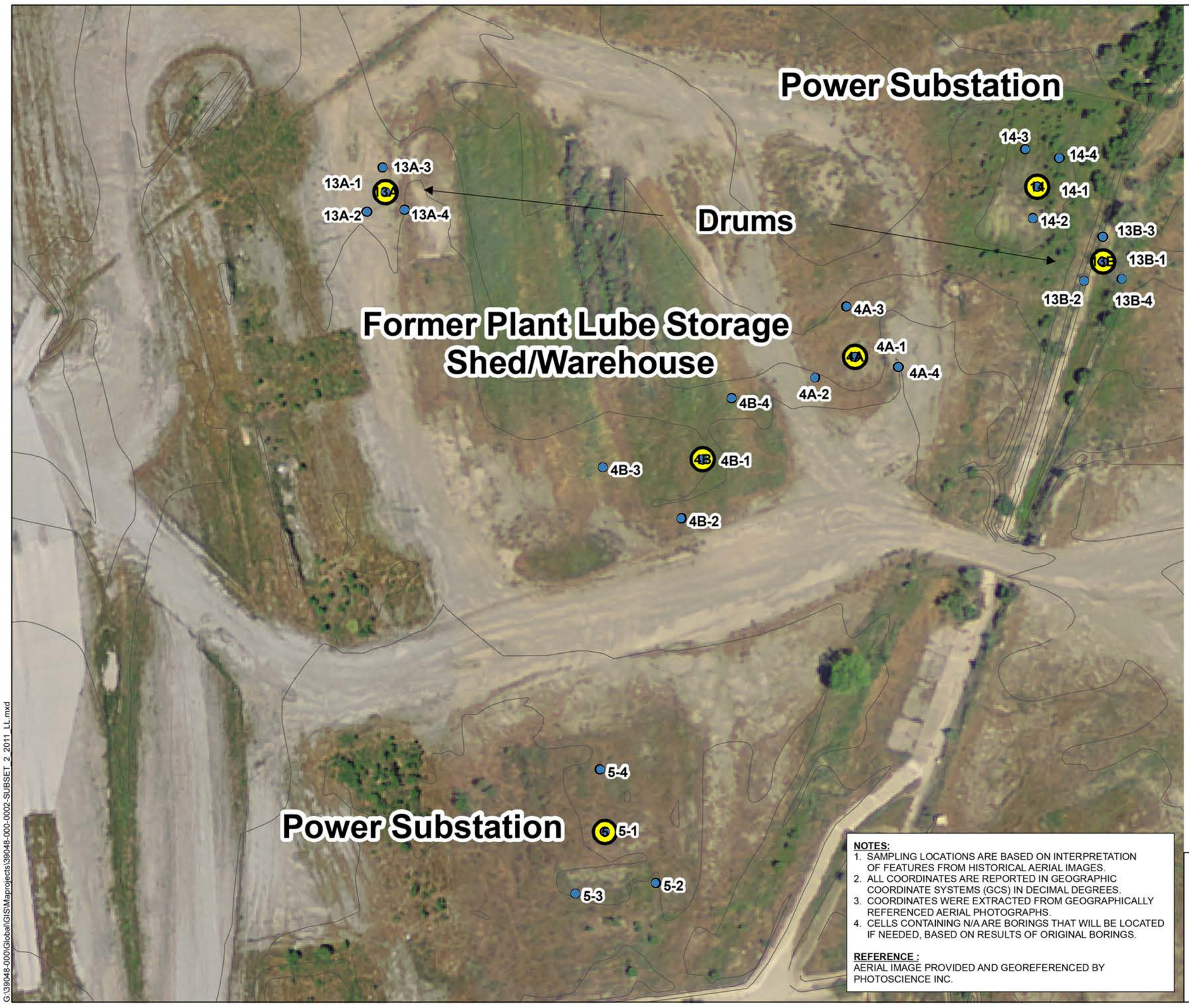
FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

AOC 3 INVESTIGATION AREA 1

SCALE: AS SHOWN
AUGUST 2017

FIGURE 10

G:\39048-000\Global\GIS\Maprojects\39048-000-0002-SUBSET_1_2011_LL.mxd



LEGEND

- 1 FACILITY LOCATION AND DESIGNATION
- 1-1 BORING LOCATION AND DESIGNATION
- ONE FOOT CONTOUR INTERVAL

Facility Designation	Boring Designation	Latitude, North	Longitude, West
4A		121.848734	37.674909
	4A-1	121.848734	37.674909
	4A-2	121.848803	37.674880
	4A-3	121.848750	37.674979
	4A-4	121.848659	37.674896
4B		121.848995	37.674765
	4B-1	121.848995	37.674765
	4B-2	121.849030	37.674684
	4B-3	121.849168	37.674752
	4B-4	121.848946	37.674850
5		121.849155	37.674250
	5-1	121.849155	37.674251
	5-2	121.849065	37.674181
	5-3	121.849205	37.674165
	5-4	121.849165	37.674337
13A		121.849551	37.675127
	13A-1	121.849551	37.675127
	13A-2	121.849583	37.675100
	13A-3	121.849557	37.675161
	13A-4	121.849518	37.675103
13B		121.848306	37.675046
	13B-1	121.848306	37.675046
	13B-2	121.848339	37.675019
	13B-3	121.848308	37.675080
	13B-4	121.848274	37.675022
14		121.848423	37.675148
	13-1	121.848423	37.675148
	13-2	121.848429	37.675104
	13-3	121.848444	37.675199
	13-4	121.848385	37.675188

N
W E
S
0 50 100
SCALE IN FEET

NOTES:
1. SAMPLING LOCATIONS ARE BASED ON INTERPRETATION OF FEATURES FROM HISTORICAL AERIAL IMAGES.
2. ALL COORDINATES ARE REPORTED IN GEOGRAPHIC COORDINATE SYSTEMS (GCS) IN DECIMAL DEGREES.
3. COORDINATES WERE EXTRACTED FROM GEOGRAPHICALLY REFERENCED AERIAL PHOTOGRAPHS.
4. CELLS CONTAINING N/A ARE BORINGS THAT WILL BE LOCATED IF NEEDED, BASED ON RESULTS OF ORIGINAL BORINGS.

REFERENCE :
AERIAL IMAGE PROVIDED AND GEOREFERENCED BY PHOTOSCIENCE INC.

HALEY ALDRICH

FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

AOC 3 INVESTIGATION AREA 2

SCALE: AS SHOWN
AUGUST 2017

FIGURE 11

G:\39048-000\Global\GIS\Maprojects\39048-000-0002-SUBSET_2_2011_LL.mxd



LEGEND

- CONFIRMATION SAMPLE LOCATION (BELOW ACTION LEVEL CRITERIA)
- CONFIRMATION SAMPLE LOCATION (EXCEEDS ACTION LEVEL CRITERIA)
- GROUNDWATER MONITORING WELL
- STORMWATER INLET
- FORMER TRANSITE PIPE
- OPEN INCOMPLETE EXCAVATION
- EXCAVATION READY TO BACKFILL
- EXCAVATION BACKFILL COMPLETE
- FEATURE FOOTPRINT
- FORMER BUILDING FOOTPRINT

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. ASSESSOR PARCEL DATA SOURCE: ALAMEDA COUNTY
3. AERIAL IMAGERY SOURCE: PICTOMETRY, OCTOBER 2009

N

0 30 60
SCALE IN FEET

HALEY ALDRICH

FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

AOC 3 EXCAVATION AREAS

AUGUST 2017

FIGURE 12

GIS FILE PATH: G:\130540_USL_Pleasanton_Development\GIS\Maps\2017_08\130540_002_0012_AOC3_EXCAVATION_AREAS.mxd — USER: lbruce — LAST SAVED: 8/11/2017 12:01:25 PM

946-1250-6-4
946-1350-3-12
946-1250-6-4
946-1250-7-6
946-1350-3-12
946-1250-7-6
946-1250-7-6
946-1350-3-8
HEAVY MAINTENANCE EQUIPMENT SHOP
OFFICE BUILDING
HEAVY MAINTENANCE SHOP SHED
HEAVY MAINTENANCE SHOP SHED
AOC-3 UST EXCAVATION
UNDERGROUND STORAGE TANK
3-WR OVER EXCAVATION
AOC 3
AOC 2

LEGEND

- CHANGE IN EXCAVATION DEPTH
- EXCAVATION SIDEWALL (EXCEEDS 2016 TIER 1 ESLs)
- EXCAVATION SIDEWALL (BELOW 2016 TIER 1 ESLs)
- EXCAVATION BACKFILL COMPLETE
- FORMER FEATURE FOOTPRINT
- FORMER BUILDING FOOTPRINT
- AREAS OF CONCERN
- SCENARIO 2 AREA, 2016 ESLs ARE EXCEEDED DEEPER THAN 5 FEET BGS
- ALAMEDA COUNTY APN

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. BASE DATA SOURCE: MARE WALCOMB, CONCEPTUAL SITE PLAN, EL CHARRO RD, STEELWAVE, PLEASANTON, CA, SHEET 1, 4 MAY 2017.
3. ASSESSOR PARCEL DATA SOURCE: ALAMEDA COUNTY
4. AERIAL IMAGERY SOURCE: GOOGLE

N

0 80 160
SCALE IN FEET

HALEY ALDRICH

FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

AOC 3 SCENARIO MAP

AUGUST 2017

FIGURE 13

GIS FILE PATH: G:\130540_USL_Pleasanton_Development\GIS\Maps\2017_08\130540_002_0013_AOC3_SCENARIO.mxd — USER: ibruce — LAST SAVED: 8/11/2017 10:45:12 AM



LEGEND

1 FACILITY LOCATION AND DESIGNATION

1-1 BORING LOCATION AND DESIGNATION

ONE FOOT CONTOUR INTERVAL

Facility Designation	Boring Designation	Latitude, North	Longitude, West
10		121.851084	37.673003
	10-2	N/A	N/A
	10-4	N/A	N/A
	10-5	N/A	N/A
	10-8	N/A	N/A
11		121.850757	37.672955
	11-1	121.850757	37.672955

NOTES:

1. SAMPLING LOCATIONS ARE BASED ON INTERPRETATION OF FEATURES FROM HISTORICAL AERIAL IMAGES.
2. ALL COORDINATES ARE REPORTED IN GEOGRAPHIC COORDINATE SYSTEMS (GCS) IN DECIMAL DEGREES.
3. COORDINATES WERE EXTRACTED FROM GEOGRAPHICALLY REFERENCED AERIAL PHOTOGRAPHS.
4. CELLS CONTAINING N/A ARE BORINGS THAT DID NOT HAVE GPS COORDINATES RECORDED.

REFERENCE :

AERIAL IMAGE PROVIDED AND GEOREFERENCED BY PHOTOSCIENCE INC.

N

W E

S

0 50 100

SCALE IN FEET

HALEY ALDRICH

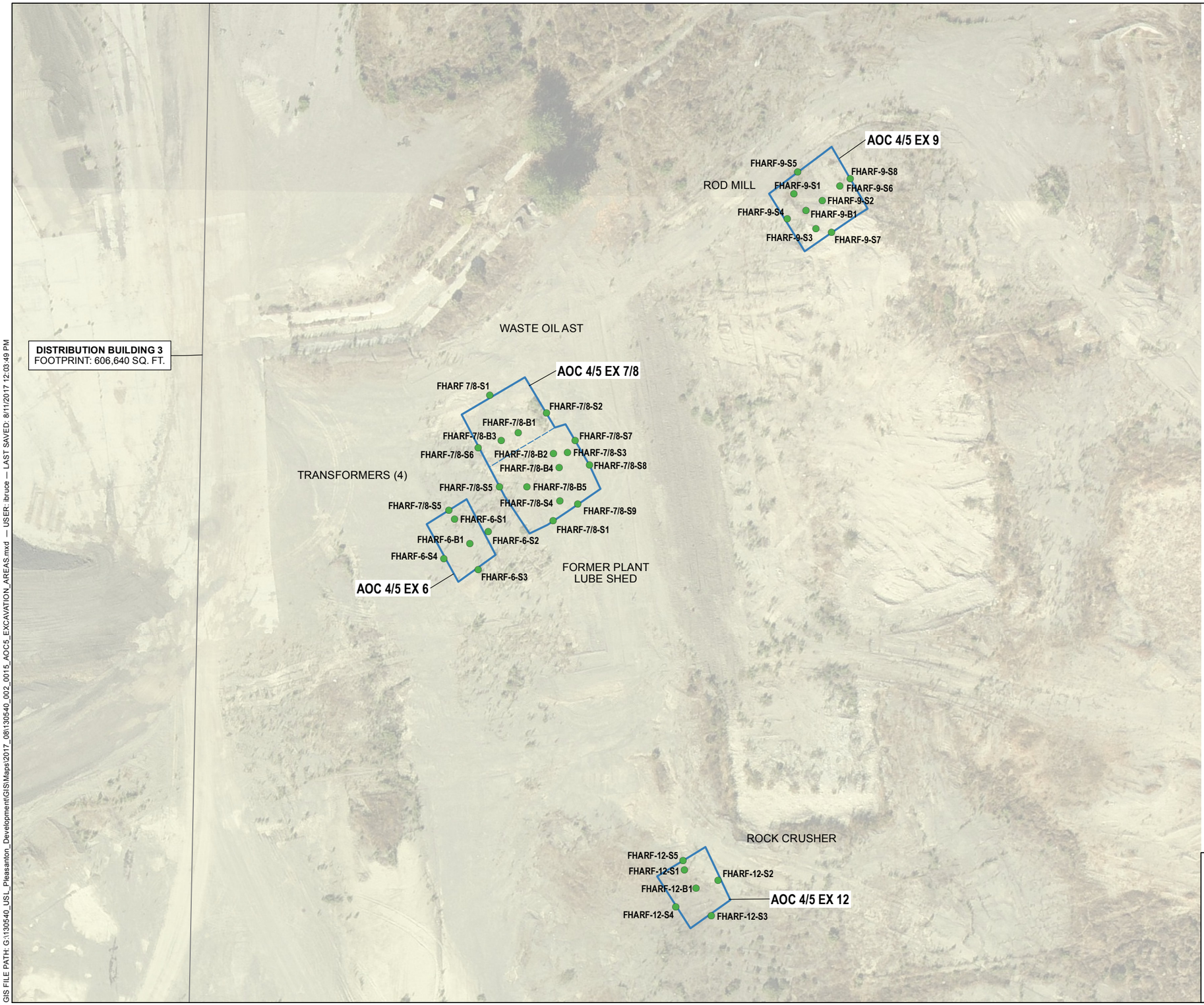
FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

AOC 4 INVESTIGATION AREAS

SCALE: AS SHOWN
AUGUST 2017

FIGURE 14

G:\39048-000\Global\GIS\Maprojects\39048-000-0002-SUBSET_3_2011_LL.mxd



LEGEND

- CONFIRMATION SAMPLE LOCATION (BELOW 2016 TIER 1 ESLs)
- CHANGE IN EXCAVATION DEPTH
- PROPOSED BUILDING FOOTPRINT
- BACKFILLED EXCAVATION AREA

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. ASSESSOR PARCEL DATA SOURCE: ALAMEDA COUNTY
3. AERIAL IMAGERY SOURCE: PICTOMETRY, OCTOBER 2009
4. BASE DATA SOURCE: MARE WALCOMB, CONCEPTUAL SITE PLAN, EL CHARRO RD, STEELWAVE, PLEASANTON, CA, SHEET 1, 4 MAY 2017.

N

0 40 80
SCALE IN FEET

HALEY ALDRICH

FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

AOC 5 FEATURES AND EXCAVATION AREAS

AUGUST 2017

FIGURE 15

GIS FILE PATH: G:\130540_USL_Pleasanton_Development\GIS\Maps\2017_08\130540_002_0015_AOC5_EXCAVATION_AREAS.mxd — USER: lbruce — LAST SAVED: 8/11/2017 12:03:49 PM

GIS FILE PATH: G:\130540_USL_Pleasanton_Development\GIS\Maps\2017_08\130540_002_0016_SITE_PLAN_AOC8_AOC9.mxd — USER: ibruce — LAST SAVED: 8/11/2017 11:28:27 AM

SS90

AOC 9

RO-A

RO-B

RO-C

AOC 8

SS123

SS123(H)

SS123(G)

SS123(C)

MW-1(SS123)

SS123(D)

SS123(AA)

SS123(A)

SS123(B)

SS123(E)

SS123(F3)

SS123(F)

MW-3(SS123)

SS123(F1)

MW-4(SS123)

MW-2(SS123)

SS123(F2)

SS123(F4)

SS123(F6)

SS123(F5)

SS97

SS137

DR

SS105

PL

WH

AOC 3

RM

WO

TRANS-A

SS130

CR

AOC 5

SS143

AOC 4

STANLEY BLVD

LEGEND

- APRIL 2007, ENV AMERICA INCORPORATED
- NOVEMBER 2006, ENV AMERICA INCORPORATED
- FEBRUARY 2007, ENV AMERICA INCORPORATED
- JUNE 2007, ENV AMERICA INCORPORATED
- OCTOBER 2007, LFR INC.
- JUNE 2008, LFR INC.
- AREAS OF CONCERN (AOC)
- SITE BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. ASSESSOR PARCEL DATA SOURCE: ALAMEDA COUNTY
3. AERIAL IMAGERY SOURCE: ESRI
4. BASE DATA SOURCE: MARE WALCOMB, CONCEPTUAL SITE PLAN, EL CHARRO RD, STEELWAVE, PLEASANTON, CA, SHEET 1, 4 MAY 2017.

N

0 330 660

SCALE IN FEET

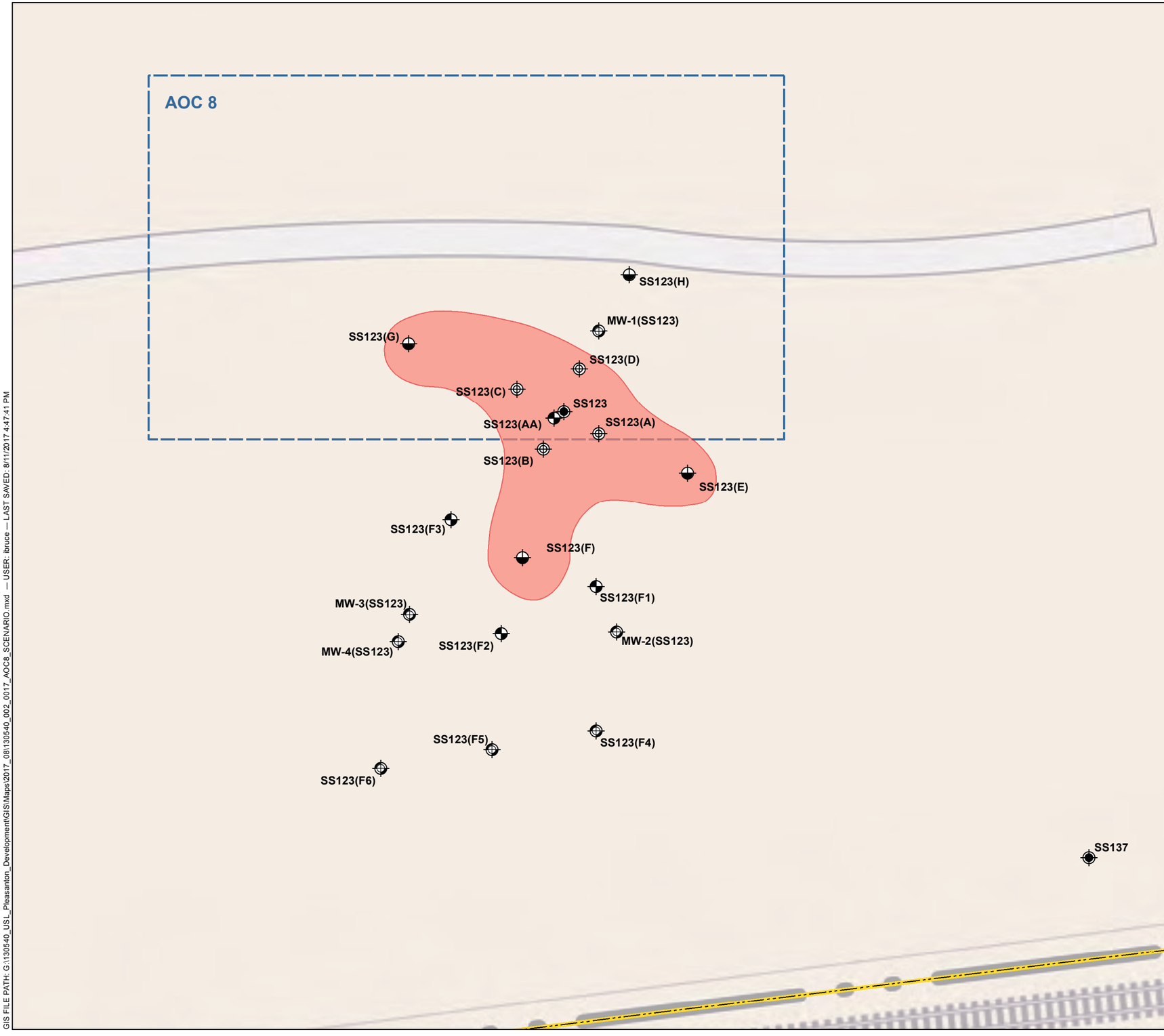
HALEY ALDRICH

FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

SITE PLAN - AOC 8 AND AOC 9

AUGUST 2017

FIGURE 16



LEGEND

- APRIL 2007, ENV AMERICA INCORPORATED
- NOVEMBER 2006, ENV AMERICA INCORPORATED
- FEBRUARY 2007, ENV AMERICA INCORPORATED
- JUNE 2007, ENV AMERICA INCORPORATED
- OCTOBER 2007, LFR INC.
- JUNE 2008, LFR INC.
- SCENARIO 3 AREA, 2016 ESLs ARE EXCEEDED SHALLOWER THAN 5 FEET BGS
- PROPOSED BUILDING FOOTPRINT
- AREAS OF CONCERN (AOC)
- SITE BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. ASSESSOR PARCEL DATA SOURCE: ALAMEDA COUNTY
3. AERIAL IMAGERY SOURCE: ESRI
4. BASE DATA SOURCE: MARE WALCOMB, CONCEPTUAL SITE PLAN, EL CHARRO RD, STEELWAVE, PLEASANTON, CA, SHEET 1, 4 MAY 2017.

N

0 100 200

SCALE IN FEET

HALEY ALDRICH

FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

AOC 8 SCENARIO MAP

AUGUST 2017

FIGURE 17

GIS FILE PATH: G:\130540_USL_Pleasanton_Development\GIS\Maps\2017_08\130540_002_0017_AOC8_SCENARIO.mxd — USER: lbruce — LAST SAVED: 8/11/2017 4:47:41 PM

SS78
TRANSFORMERS (3)
EB-35
BUSCH RD
TRANSFORMER (1)
3-EX-2
OVER EXCAVATION
POWER SUBSTATION
FORMER PLANT LUBE
STORAGE SHED/WAREHOUSE
SS105
DISTRIBUTION BUILDING 4
FOOTPRINT: 646,380 SQ. FT.
1
2
3
4
ENV-1
B-1 (A)
3-TR2
OVER EXCAVATION
EB-31 (B)
AOC 3
DISTRIBUTION BUILDING 3
FOOTPRINT: 606,640 SQ. FT.
CPT1
CPT2
CPT3
CPT4
EB-1
ITMB OIL-WATER
SEPARATOR
POWER SUBSTATION
EB-2
5
MW-KP1
LEACH FIELD
W-1
SEPTIC
TANK
AOC 2
ROD MILL
AOC 4/5 EX 9
AOC 4/5 EX 7/8
AOC 4/5 EX 6
SS130
FORMER PLANT
LUBE SHED
AOC 4/5 EX 12
MW-4
TRANSFORMERS (4)
DISTRIBUTION BUILDING 5
FOOTPRINT: 97,200 SQ. FT.
EB-22
EB-15
EX 4
MW-1
MW-3
EX 5
MW-10
B22
TRANSFORMER (1)
ABANDONED
RAILROAD
EX 1
B21
EX 6
B25
MW-9
B26
EX 2
MW-8
EX 3
CF 5
TRUCK
SCALE
CONCRETE BATCH PLANT
SS128
FUEL LINE
B27
MW-5A
MW-5
CONTAINMENT
STRUCTURE
EB-16
EX 7
EX 8
EB-29
CONVEYOR
CULVERT
APPROXIMATE
CISTERN LOCATIONS
MW-2
B29
EX 9
B28
B23
AOC 4
AOC 5
MW-7
MW-6
AOC 1
STANLEY BLVD

LEGEND

- SOIL BORING/GRAB GROUNDWATER SAMPLE
- MONITORING WELL
- CONE PENETROMETER TEST LOCATION/GRAB GROUNDWATER SAMPLE
- PRODUCTION WELL
- PROPOSED BUILDING FOOTPRINT
- EXCAVATION AREA
- FEATURE FOOTPRINT
- FORMER BUILDING/STRUCTURE FOOTPRINT
- AREAS OF CONCERN (AOC)
- SITE BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. ASSESSOR PARCEL DATA SOURCE: ALAMEDA COUNTY
3. AERIAL IMAGERY SOURCE: ESRI
4. BASE DATA SOURCE: MARE WALCOMB, CONCEPTUAL SITE PLAN, EL CHARRO RD, STEELWAVE, PLEASANTON, CA, SHEET 1, 4 MAY 2017.

N

0 200 400
SCALE IN FEET

HALEY ALDRICH

FORMER HANSON AGGREGATES RADUM FACILITY
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

GROUNDWATER SAMPLING LOCATIONS

AUGUST 2017

FIGURE 18

GIS FILE PATH: G:\130540_USL_Pleasanton_Development\GIS\Maps\2017_08\130540_002_0018_GW_SAMPLING_LOCATIONS.mxd — USER: lbruce — LAST SAVED: 8/11/2017 11:53:07 AM

APPENDIX A

AOC 1 Analytical Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51174-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
7/31/2013 4:57:54 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51174-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51174-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51174-1

Comments
No additional comments.

Receipt
The samples were received on 7/24/2013 4:26 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS Semi VOA
Method 8270C SIM: The following samples was diluted due to the abundance of non-target analytes: CS-S1(1.45) (720-51174-1), CS-S2(1.40) (720-51174-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51174-1

Client Sample ID: CS-S1(1.45) — Lab Sample ID: 720-51174-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	15		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	170		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CS-S2(1.40) — Lab Sample ID: 720-51174-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.9		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	64		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CS-S3(1.45) — Lab Sample ID: 720-51174-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.6		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51174-1

Client Sample ID: CS-S1(1.45)
Date Collected: 07/24/13 14:35
Date Received: 07/24/13 16:26

Lab Sample ID: 720-51174-1
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		9.9		ug/Kg		07/25/13 12:48	07/26/13 14:58	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*33 - 120*	*07/25/13 12:48*	*07/26/13 14:58*	*2*
Terphenyl-d14	*76*		*35 - 146*	*07/25/13 12:48*	*07/26/13 14:58*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**15**		0.99		mg/Kg		07/26/13 14:53	07/27/13 02:26	1
Motor Oil Range Organics [C24-C36]	**170**		50		mg/Kg		07/26/13 14:53	07/27/13 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.04*		*0 - 1*	*07/26/13 14:53*	*07/27/13 02:26*	*1*
p-Terphenyl	*90*		*38 - 148*	*07/26/13 14:53*	*07/27/13 02:26*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51174-1

Client Sample ID: CS-S2(1.40)
Date Collected: 07/24/13 14:25
Date Received: 07/24/13 16:26

Lab Sample ID: 720-51174-2
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		9.9		ug/Kg		07/25/13 12:48	07/25/13 19:00	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*33 - 120*	*07/25/13 12:48*	*07/25/13 19:00*	*2*
Terphenyl-d14	*91*		*35 - 146*	*07/25/13 12:48*	*07/25/13 19:00*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.9**		0.99		mg/Kg		07/26/13 14:53	07/29/13 13:00	1
Motor Oil Range Organics [C24-C36]	**64**		50		mg/Kg		07/26/13 14:53	07/29/13 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*07/26/13 14:53*	*07/29/13 13:00*	*1*
p-Terphenyl	*86*		*38 - 148*	*07/26/13 14:53*	*07/29/13 13:00*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51174-1

Client Sample ID: CS-S3(1.45)
Date Collected: 07/24/13 14:22
Date Received: 07/24/13 16:26

Lab Sample ID: 720-51174-3
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		07/25/13 12:48	07/25/13 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*07/25/13 12:48*	*07/25/13 19:20*	*1*
Terphenyl-d14	*89*		*35 - 146*	*07/25/13 12:48*	*07/25/13 19:20*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.6**		1.0		mg/Kg		07/26/13 14:53	07/27/13 00:25	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/26/13 14:53	07/27/13 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.009*		*0 - 1*	*07/26/13 14:53*	*07/27/13 00:25*	*1*
p-Terphenyl	*105*		*38 - 148*	*07/26/13 14:53*	*07/27/13 00:25*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-140872/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 140881 — **Prep Batch: 140872**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		07/25/13 12:48	07/25/13 16:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*33 - 120*	*07/25/13 12:48*	*07/25/13 16:15*	*1*
Terphenyl-d14	*92*		*35 - 146*	*07/25/13 12:48*	*07/25/13 16:15*	*1*

Lab Sample ID: LCS 720-140872/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 140881 — **Prep Batch: 140872**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			331	238		ug/Kg		72	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*33 - 120*
Terphenyl-d14	*94*		*35 - 146*

Lab Sample ID: LCSD 720-140872/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 140881 — **Prep Batch: 140872**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			334	234		ug/Kg		70	46 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*33 - 120*
Terphenyl-d14	*88*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-140976/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Silica Gel Cleanup**
Analysis Batch: 140938 — **Prep Batch: 140976**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/26/13 14:53	07/27/13 05:41	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/26/13 14:53	07/27/13 05:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*07/26/13 14:53*	*07/27/13 05:41*	*1*
p-Terphenyl	*85*		*38 - 148*	*07/26/13 14:53*	*07/27/13 05:41*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-140976/2-A
Matrix: Solid
Analysis Batch: 140938

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 140976

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.2	52.3		mg/Kg		64	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*96*		*38 - 148*

Lab Sample ID: LCSD 720-140976/3-A
Matrix: Solid
Analysis Batch: 140938

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 140976

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.9	56.5		mg/Kg		68	36 - 112	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*99*		*38 - 148*

Lab Sample ID: 720-51174-2 MS
Matrix: Solid
Analysis Batch: 140937

Client Sample ID: CS-S2(1.40)
Prep Type: Silica Gel Cleanup
Prep Batch: 140976

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	4.9		83.1	51.5		mg/Kg		56	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*91*		*38 - 148*

Lab Sample ID: 720-51174-2 MSD
Matrix: Solid
Analysis Batch: 140937

Client Sample ID: CS-S2(1.40)
Prep Type: Silica Gel Cleanup
Prep Batch: 140976

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	4.9		83.3	56.5		mg/Kg		62	50 - 150	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*84*		*38 - 148*

GC/MS Semi VOA

Prep Batch: 140872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51174-1	CS-S1(1.45)	Total/NA	Solid	3546	
720-51174-2	CS-S2(1.40)	Total/NA	Solid	3546	
720-51174-3	CS-S3(1.45)	Total/NA	Solid	3546	
LCS 720-140872/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-140872/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-140872/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 140881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51174-2	CS-S2(1.40)	Total/NA	Solid	8270C SIM	140872
720-51174-3	CS-S3(1.45)	Total/NA	Solid	8270C SIM	140872
LCS 720-140872/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	140872
LCSD 720-140872/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	140872
MB 720-140872/1-A	Method Blank	Total/NA	Solid	8270C SIM	140872

Analysis Batch: 140959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51174-1	CS-S1(1.45)	Total/NA	Solid	8270C SIM	140872

GC Semi VOA

Analysis Batch: 140937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51174-2 MS	CS-S2(1.40)	Silica Gel Cleanup	Solid	8015B	140976
720-51174-2 MSD	CS-S2(1.40)	Silica Gel Cleanup	Solid	8015B	140976

Analysis Batch: 140938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51174-1	CS-S1(1.45)	Silica Gel Cleanup	Solid	8015B	140976
720-51174-3	CS-S3(1.45)	Silica Gel Cleanup	Solid	8015B	140976
LCS 720-140976/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	140976
LCSD 720-140976/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	140976
MB 720-140976/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	140976

Prep Batch: 140976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51174-1	CS-S1(1.45)	Silica Gel Cleanup	Solid	3546	
720-51174-2	CS-S2(1.40)	Silica Gel Cleanup	Solid	3546	
720-51174-2 MS	CS-S2(1.40)	Silica Gel Cleanup	Solid	3546	
720-51174-2 MSD	CS-S2(1.40)	Silica Gel Cleanup	Solid	3546	
720-51174-3	CS-S3(1.45)	Silica Gel Cleanup	Solid	3546	
LCS 720-140976/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-140976/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-140976/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 141063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51174-2	CS-S2(1.40)	Silica Gel Cleanup	Solid	8015B	140976

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51174-1

Client Sample ID: CS-S1(1.45)

Lab Sample ID: 720-51174-1

Date Collected: 07/24/13 14:35

Matrix: Solid

Date Received: 07/24/13 16:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			140872	07/25/13 12:48	AFM	TAL PLS
Total/NA	Analysis	8270C SIM		2	140959	07/26/13 14:58	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			140976	07/26/13 14:53	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	140938	07/27/13 02:26	DCH	TAL PLS

Client Sample ID: CS-S2(1.40)

Lab Sample ID: 720-51174-2

Date Collected: 07/24/13 14:25

Matrix: Solid

Date Received: 07/24/13 16:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			140872	07/25/13 12:48	AFM	TAL PLS
Total/NA	Analysis	8270C SIM		2	140881	07/25/13 19:00	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			140976	07/26/13 14:53	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141063	07/29/13 13:00	DCH	TAL PLS

Client Sample ID: CS-S3(1.45)

Lab Sample ID: 720-51174-3

Date Collected: 07/24/13 14:22

Matrix: Solid

Date Received: 07/24/13 16:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			140872	07/25/13 12:48	AFM	TAL PLS
Total/NA	Analysis	8270C SIM		1	140881	07/25/13 19:20	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			140976	07/26/13 14:53	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	140938	07/27/13 00:25	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51174-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51174-1

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51174-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51174-1	CS-S1(1.45)	Solid	07/24/13 14:35	07/24/13 16:26
720-51174-2	CS-S2(1.40)	Solid	07/24/13 14:25	07/24/13 16:26
720-51174-3	CS-S3(1.45)	Solid	07/24/13 14:22	07/24/13 16:26

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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-51174

Reference #: 147451

Date 7/24/13 Page 1 of 1

7/31/2013

Report To

Attn: KRISTIN GUTHRIE
Company: Haley & Aldrich, Inc
Address: 2033 N Main St, Suite 309
Email: KGUTHRIE@haleyaldrich.com
Bill To: HAI
Sampled By: J Sebik
Attn: Accounts Payable
Phone:

Analysis Request

Sample ID	Date	Time	Mat.	Preserv.	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B ONLY NAPHTHALENE	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ OCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Number of Containers
CS-S1(1.45)	7/24/13	1435	S	MeOH	X			X														4
CS-S2(1.40)	7/24/13	1425	S	Ice				X														1
CS-S3(1.45)	7/24/13	1422	S	MeOH	X			X														4
					JS 7/24/13																	

Project Info.

Project Name/ #: Former Hanson Aggregate Facility
PO#: 39792
Credit Card Y/N
If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 2.7°C

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID
8260B- NAPHTHALENE ONLY

See Terms and Conditions on reverse

1) Relinquished by:
Signature: 1626 Time
Printed Name: JOANNA SEBIK 7/24/13 Date
Company: Haley & Aldrich

2) Relinquished by:
Signature
Printed Name
Company

3) Relinquished by:
Time
Date

720-51174 Chain of Custody

1) Received by:
Signature: 1626 Time
Printed Name: 7/24/13 Date
Company: TAP

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by
Signature Time
Printed Name Date
Company

Rev 10/2012

720-51174 Rev.

Sharma, Dimple

From: Brownsberger, Rae [RBrownsberger@haleyaldrich.com]
Sent: Wednesday, July 24, 2013 7:51 PM
To: Sharma, Dimple
Cc: Miller, Katherine; Guthrie, Kristin
Subject: Re: TotalAccess samples received for Hansen. Haley & Aldrich, Inc. - Walnut Creek [720-51174-1]

All of these samples should be logged in for TPH dro and mro. Also please add silica gel cleanup for all samples. CS-S1(1.45) and CS-S1(1.45) should be logged in not for VOCs but napthalene (only, not full suite of PAHs). Thanks!

Sent from my iPhone

On Jul 24, 2013, at 7:47 PM, "Brownsberger, Rae" <RBrownsberger@haleyaldrich.com<mailto:RBrownsberger@haleyaldrich.com>> wrote:

720-51174 Chain of Custody

Sent from my iPhone

On Jul 24, 2013, at 7:45 PM, "TotalAccess" <totalaccess@testamericainc.com<mailto:totalaccess@testamericainc.com>> wrote:

Job 720-51174-1<https://secure.testamericainc.com/TotalAccess/Job/Index/3939849> Pleasanton

Job Description: Hansen Project Number:

Report To: Invoice To:
Kristin Guthrie Accounts Payable
Haley & Aldrich, Inc. - Walnut Creek Haley & Aldrich Inc
2033 North Main Street Suite 309 Attention: Accounts Payable 70 Blanchard Rd, Ste 430
Walnut Creek, California 94596 Burlington, MA 01803
Phone: Phone: (617)886-7400
Fax: Fax:

Lab PM: Dimple Sharma Date Due: 07/31/13 23:59
Status: Received Date Received: 07/24/13 16:26
Status Date: 07/24/13 18:39 Date Logged: 07/24/13 18:36

Analysis	Expires	Status	Status Date
CS-S1(1.45) (720-51174-1) Solid Sampled: 07/24/13 14:35			
Diesel Range Organics (DRO) (GC)	N/A	Waiting	07/24/13 20:36
Volatile Organic Compounds (GC/MS)	08/07/13 23:59	Waiting	07/24/13 20:36
CS-S2(1.40) (720-51174-2) Solid Sampled: 07/24/13 14:25			
Diesel Range Organics (DRO) (GC)	N/A	Waiting	07/24/13 20:36
CS-S3(1.45) (720-51174-3) Solid Sampled: 07/24/13 14:22			
Diesel Range Organics (DRO) (GC)	N/A	Waiting	07/24/13 20:36
Volatile Organic Compounds (GC/MS)	08/07/13 23:59	Waiting	07/24/13 20:36

This is an automatically generated e-mail sent to you per your request on the TotalAccess

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51174-1

Login Number: 51174

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51215-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Linda C. Laver

Authorized for release by:
8/2/2013 4:44:32 PM
Linda C. Laver, Project Manager I
(916)374-4362
linda.laver@testamericainc.com

Designee for

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51215-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51215-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51215-1

Receipt
The sample was received on 7/25/2013 5:51 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 9.1º C.

GC/MS Semi VOA
Method(s) 8270C SIM:
The following sample was diluted due to the abundance of non-target analytes: CF1-B1(1.0) (720-51215-1). Elevated reporting limit (RL) is provided.

No other analytical or quality issues were noted.

GC Semi VOA
Method 8015B:
Due to the level of dilution required for the following sample, the surrogate recoveries are not reported: CF1-B1(1.0) (720-51215-1).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51215-1

Client Sample ID: CF1-B1(1.0)

Lab Sample ID: 720-51215-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	140		10		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	760		500		mg/Kg	10		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51215-1

Client Sample ID: CF1-B1(1.0)
Date Collected: 07/25/13 15:55
Date Received: 07/25/13 17:51

Lab Sample ID: 720-51215-1
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		50		ug/Kg		07/31/13 11:25	08/01/13 22:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*33 - 120*	*07/31/13 11:25*	*08/01/13 22:50*	*5*
Terphenyl-d14	*106*		*35 - 146*	*07/31/13 11:25*	*08/01/13 22:50*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**140**		10		mg/Kg		08/01/13 09:06	08/02/13 11:16	10
Motor Oil Range Organics [C24-C36]	**760**		500		mg/Kg		08/01/13 09:06	08/02/13 11:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/01/13 09:06*	*08/02/13 11:16*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/01/13 09:06*	*08/02/13 11:16*	*10*

Surrogate Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51215-1

Method: 8270C SIM - PAHs by GCMS (SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		FBP	TPH								
Lab Sample ID	Client Sample ID	(33-120)	(35-146)								
720-51215-1	CF1-B1(1.0)	90	106								
LCS 720-141260/2-A	Lab Control Sample	82	97								
LCSD 720-141260/3-A	Lab Control Sample Dup	78	97								
MB 720-141260/1-A	Method Blank	91	110								

Surrogate Legend

FBP = 2-Fluorobiphenyl

TPH = Terphenyl-d14

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Silica Gel Cleanup**

		Percent Surrogate Recovery (Acceptance Limits)									
		NDA1	PTP1								
Lab Sample ID	Client Sample ID	(0-1)	(38-148)								
720-51215-1	CF1-B1(1.0)	0	0 X D								
LCS 720-141322/2-A	Lab Control Sample		107								
LCSD 720-141322/3-A	Lab Control Sample Dup		109								
MB 720-141322/1-A	Method Blank	0.004	117								

Surrogate Legend

NDA = Capric Acid (Surr)

PTP = p-Terphenyl

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51215-1

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-141260/1-A
Matrix: Solid
Analysis Batch: 141342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 141260

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		07/31/13 11:25	08/01/13 15:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*33 - 120*	*07/31/13 11:25*	*08/01/13 15:58*	*1*
Terphenyl-d14	*110*		*35 - 146*	*07/31/13 11:25*	*08/01/13 15:58*	*1*

Lab Sample ID: LCS 720-141260/2-A
Matrix: Solid
Analysis Batch: 141342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141260

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			332	248		ug/Kg		75	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*33 - 120*
Terphenyl-d14	*97*		*35 - 146*

Lab Sample ID: LCSD 720-141260/3-A
Matrix: Solid
Analysis Batch: 141342

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 141260

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			333	242		ug/Kg		73	46 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*78*		*33 - 120*
Terphenyl-d14	*97*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-141322/1-A
Matrix: Solid
Analysis Batch: 141419

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 141322

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/01/13 09:06	08/02/13 11:58	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/01/13 09:06	08/02/13 11:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.004*		*0 - 1*	*08/01/13 09:06*	*08/02/13 11:58*	*1*
p-Terphenyl	*117*		*38 - 148*	*08/01/13 09:06*	*08/02/13 11:58*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-141322/2-A
Matrix: Solid
Analysis Batch: 141419

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 141322

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			83.0	67.9		mg/Kg		82	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*107*		*38 - 148*

Lab Sample ID: LCSD 720-141322/3-A
Matrix: Solid
Analysis Batch: 141419

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 141322

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			83.2	62.2		mg/Kg		75	36 - 112	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*109*		*38 - 148*

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51215-1

GC/MS Semi VOA

Prep Batch: 141260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51215-1	CF1-B1(1.0)	Total/NA	Solid	3546	
LCS 720-141260/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-141260/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-141260/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 141342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51215-1	CF1-B1(1.0)	Total/NA	Solid	8270C SIM	141260
LCS 720-141260/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	141260
LCSD 720-141260/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	141260
MB 720-141260/1-A	Method Blank	Total/NA	Solid	8270C SIM	141260

GC Semi VOA

Prep Batch: 141322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51215-1	CF1-B1(1.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-141322/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-141322/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-141322/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 141419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-141322/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	141322
LCSD 720-141322/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	141322
MB 720-141322/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	141322

Analysis Batch: 141421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51215-1	CF1-B1(1.0)	Silica Gel Cleanup	Solid	8015B	141322

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51215-1

Client Sample ID: CF1-B1(1.0)
Date Collected: 07/25/13 15:55
Date Received: 07/25/13 17:51

Lab Sample ID: 720-51215-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141260	07/31/13 11:25	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		5	141342	08/01/13 22:50	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			141322	08/01/13 09:06	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	141421	08/02/13 11:16	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51215-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51215-1

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51215-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51215-1	CF1-B1(1.0)	Solid	07/25/13 15:55	07/25/13 17:51

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TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-51215

Reference #. 14749 /

Date 7/25/13 Page 1 of 1

8/2/2013

Report To

Attn. KRISTIN GUTHRIE
Company Haley & Aldrich
Address 2033 N Main St, Walnut Creek CA
Email KGUTHRIE@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: JS, JK
Attn. Accounts Payable
Phone 925-357-7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM NAPHTHALENE ONLY	Oil and Grease ☐ Petroleum ☐ Total (EPA 1664/9071)	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals ☐ 6020 ☐ 200.8 (ICP-MS)	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
CF1-B1(1.0)	7/25/13	1555	S	ice				X		X															1

Project Info

Project Name/ # Former Hanson Aggregate Plant
PO# 39792-002
Credit Card Y/N

Sample Receipt

of Containers
Head Space
Temp 9.1°C < 4HRS
If yes, please call for payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other: 72hr (JS)

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments. ☐ Global ID
8270C SIM - Naphthalene ONLY

See Terms and Conditions on reverse

1) Relinquished by.
Signature 1751 Time
JOANNA SEBIN 7/25/13
Printed Name Date
Haley & Aldrich
Company

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by
Signature Time
Printed Name Date
Company

720-51215 Chain of Custody

1) Received by:
Signature 17:51 Time
T. Bullock 7/25/13
Printed Name Date
TestAmerica
Company

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by.
Signature Time
Printed Name Date
Company

Rev 10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51215-1

Login Number: 51215

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51230-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
7/30/2013 5:05:01 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51230-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51230-1

Comments
No additional comments.

Receipt
The samples were received on 7/26/2013 2:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.7º C.

GC/MS Semi VOA
Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: CS-B1(2.5) (720-51230-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following samples, surrogate recoveries are not reported: CS-B5(2.0) (720-51230-5), CS-B7(2.0) (720-51230-7), CS-B8(2.0) (720-51230-8), CS-B9(0.5) (720-51230-9), CS-B3(1.0) (720-51230-3), CS-B4(2.5) (720-51230-4).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-1

Client Sample ID: CS-B1(2.5) — Lab Sample ID: 720-51230-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	23		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	170		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CS-B2(2.5) — Lab Sample ID: 720-51230-2

No Detections.

Client Sample ID: CS-B3(1.0) — Lab Sample ID: 720-51230-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	110		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	860		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: CS-B4(2.5) — Lab Sample ID: 720-51230-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	460		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	3400		990		mg/Kg	20		8015B	Silica Gel Cleanup

Client Sample ID: CS-B5(2.0) — Lab Sample ID: 720-51230-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	250		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	2100		990		mg/Kg	20		8015B	Silica Gel Cleanup

Client Sample ID: CS-B6(3.0) — Lab Sample ID: 720-51230-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.5		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CS-B7(2.0) — Lab Sample ID: 720-51230-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	300		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	2500		1000		mg/Kg	20		8015B	Silica Gel Cleanup

Client Sample ID: CS-B8(2.0) — Lab Sample ID: 720-51230-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	250		4.9		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	570		250		mg/Kg	5		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-1

Client Sample ID: CS-B9(0.5)

Lab Sample ID: 720-51230-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	500		9.9		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1000		500		mg/Kg	10		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-1

Client Sample ID: CS-B1(2.5)
Date Collected: 07/26/13 09:08
Date Received: 07/26/13 14:15

Lab Sample ID: 720-51230-1
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		25		ug/Kg		07/29/13 08:07	07/29/13 16:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*95*		*33 - 120*	*07/29/13 08:07*	*07/29/13 16:19*	*5*
Terphenyl-d14	*105*		*35 - 146*	*07/29/13 08:07*	*07/29/13 16:19*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**23**		0.99		mg/Kg		07/26/13 14:53	07/27/13 02:51	1
Motor Oil Range Organics [C24-C36]	**170**		50		mg/Kg		07/26/13 14:53	07/27/13 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*07/26/13 14:53*	*07/27/13 02:51*	*1*
p-Terphenyl	*106*		*38 - 148*	*07/26/13 14:53*	*07/27/13 02:51*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-1

Client Sample ID: CS-B2(2.5)
Date Collected: 07/26/13 09:10
Date Received: 07/26/13 14:15

Lab Sample ID: 720-51230-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		07/26/13 14:53	07/27/13 00:49	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/26/13 14:53	07/27/13 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.03*		*0 - 1*	*07/26/13 14:53*	*07/27/13 00:49*	*1*
p-Terphenyl	*78*		*38 - 148*	*07/26/13 14:53*	*07/27/13 00:49*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-1

Client Sample ID: CS-B3(1.0)
Date Collected: 07/26/13 09:12
Date Received: 07/26/13 14:15

Lab Sample ID: 720-51230-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	110		5.0		mg/Kg		07/26/13 14:53	07/29/13 14:13	5
Motor Oil Range Organics [C24-C36]	860		250		mg/Kg		07/26/13 14:53	07/29/13 14:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*07/26/13 14:53*	*07/29/13 14:13*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*07/26/13 14:53*	*07/29/13 14:13*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-1

Client Sample ID: CS-B4(2.5)
Date Collected: 07/26/13 09:14
Date Received: 07/26/13 14:15

Lab Sample ID: 720-51230-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	460		20		mg/Kg		07/26/13 14:53	07/29/13 13:49	20
Motor Oil Range Organics [C24-C36]	3400		990		mg/Kg		07/26/13 14:53	07/29/13 13:49	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*07/26/13 14:53*	*07/29/13 13:49*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*07/26/13 14:53*	*07/29/13 13:49*	*20*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-1

Client Sample ID: CS-B5(2.0)
Date Collected: 07/26/13 09:16
Date Received: 07/26/13 14:15

Lab Sample ID: 720-51230-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	250		20		mg/Kg		07/26/13 14:53	07/27/13 01:38	20
Motor Oil Range Organics [C24-C36]	2100		990		mg/Kg		07/26/13 14:53	07/27/13 01:38	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*07/26/13 14:53*	*07/27/13 01:38*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*07/26/13 14:53*	*07/27/13 01:38*	*20*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-1

Client Sample ID: CS-B6(3.0)
Date Collected: 07/26/13 09:18
Date Received: 07/26/13 14:15

Lab Sample ID: 720-51230-6
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.5**		0.99		mg/Kg		07/26/13 14:53	07/27/13 01:13	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		07/26/13 14:53	07/27/13 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*07/26/13 14:53*	*07/27/13 01:13*	*1*
p-Terphenyl	*83*		*38 - 148*	*07/26/13 14:53*	*07/27/13 01:13*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-1

Client Sample ID: CS-B7(2.0)
Date Collected: 07/26/13 09:20
Date Received: 07/26/13 14:15

Lab Sample ID: 720-51230-7
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	300		20		mg/Kg		07/26/13 14:53	07/27/13 02:02	20
Motor Oil Range Organics [C24-C36]	2500		1000		mg/Kg		07/26/13 14:53	07/27/13 02:02	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*07/26/13 14:53*	*07/27/13 02:02*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*07/26/13 14:53*	*07/27/13 02:02*	*20*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-1

Client Sample ID: CS-B8(2.0)
Date Collected: 07/26/13 09:22
Date Received: 07/26/13 14:15

Lab Sample ID: 720-51230-8
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	250		4.9		mg/Kg		07/26/13 14:53	07/29/13 14:38	5
Motor Oil Range Organics [C24-C36]	570		250		mg/Kg		07/26/13 14:53	07/29/13 14:38	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*07/26/13 14:53*	*07/29/13 14:38*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*07/26/13 14:53*	*07/29/13 14:38*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-1

Client Sample ID: CS-B9(0.5)
Date Collected: 07/26/13 09:24
Date Received: 07/26/13 14:15

Lab Sample ID: 720-51230-9
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	500		9.9		mg/Kg		07/26/13 14:53	07/29/13 15:02	10
Motor Oil Range Organics [C24-C36]	1000		500		mg/Kg		07/26/13 14:53	07/29/13 15:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*07/26/13 14:53*	*07/29/13 15:02*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*07/26/13 14:53*	*07/29/13 15:02*	*10*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-141068/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141079 — **Prep Batch: 141068**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		07/29/13 08:07	07/29/13 15:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*07/29/13 08:07*	*07/29/13 15:17*	*1*
Terphenyl-d14	*111*		*35 - 146*	*07/29/13 08:07*	*07/29/13 15:17*	*1*

Lab Sample ID: LCS 720-141068/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141079 — **Prep Batch: 141068**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	333	225		ug/Kg		68	46 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*72*		*33 - 120*
Terphenyl-d14	*101*		*35 - 146*

Lab Sample ID: LCSD 720-141068/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141079 — **Prep Batch: 141068**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	333	215		ug/Kg		65	46 - 120	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*33 - 120*
Terphenyl-d14	*104*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-140976/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Silica Gel Cleanup**
Analysis Batch: 140938 — **Prep Batch: 140976**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/26/13 14:53	07/27/13 05:41	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/26/13 14:53	07/27/13 05:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*07/26/13 14:53*	*07/27/13 05:41*	*1*
p-Terphenyl	*85*		*38 - 148*	*07/26/13 14:53*	*07/27/13 05:41*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-140976/2-A
Matrix: Solid
Analysis Batch: 140938

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 140976

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.2	52.3		mg/Kg		64	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*96*		*38 - 148*

Lab Sample ID: LCSD 720-140976/3-A
Matrix: Solid
Analysis Batch: 140938

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 140976

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.9	56.5		mg/Kg		68	36 - 112	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*99*		*38 - 148*

GC/MS Semi VOA

Prep Batch: 141068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51230-1	CS-B1(2.5)	Total/NA	Solid	3546	
LCS 720-141068/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-141068/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-141068/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 141078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51230-1	CS-B1(2.5)	Total/NA	Solid	8270C SIM	141068

Analysis Batch: 141079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-141068/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	141068
LCSD 720-141068/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	141068
MB 720-141068/1-A	Method Blank	Total/NA	Solid	8270C SIM	141068

GC Semi VOA

Analysis Batch: 140937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51230-5	CS-B5(2.0)	Silica Gel Cleanup	Solid	8015B	140976
720-51230-7	CS-B7(2.0)	Silica Gel Cleanup	Solid	8015B	140976

Analysis Batch: 140938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51230-1	CS-B1(2.5)	Silica Gel Cleanup	Solid	8015B	140976
720-51230-2	CS-B2(2.5)	Silica Gel Cleanup	Solid	8015B	140976
720-51230-6	CS-B6(3.0)	Silica Gel Cleanup	Solid	8015B	140976
LCS 720-140976/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	140976
LCSD 720-140976/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	140976
MB 720-140976/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	140976

Prep Batch: 140976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51230-1	CS-B1(2.5)	Silica Gel Cleanup	Solid	3546	
720-51230-2	CS-B2(2.5)	Silica Gel Cleanup	Solid	3546	
720-51230-3	CS-B3(1.0)	Silica Gel Cleanup	Solid	3546	
720-51230-4	CS-B4(2.5)	Silica Gel Cleanup	Solid	3546	
720-51230-5	CS-B5(2.0)	Silica Gel Cleanup	Solid	3546	
720-51230-6	CS-B6(3.0)	Silica Gel Cleanup	Solid	3546	
720-51230-7	CS-B7(2.0)	Silica Gel Cleanup	Solid	3546	
720-51230-8	CS-B8(2.0)	Silica Gel Cleanup	Solid	3546	
720-51230-9	CS-B9(0.5)	Silica Gel Cleanup	Solid	3546	
LCS 720-140976/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-140976/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-140976/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 141062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51230-8	CS-B8(2.0)	Silica Gel Cleanup	Solid	8015B	140976
720-51230-9	CS-B9(0.5)	Silica Gel Cleanup	Solid	8015B	140976

GC Semi VOA (Continued)

Analysis Batch: 141063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51230-3	CS-B3(1.0)	Silica Gel Cleanup	Solid	8015B	140976
720-51230-4	CS-B4(2.5)	Silica Gel Cleanup	Solid	8015B	140976

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-1

Client Sample ID: CS-B1(2.5)

Lab Sample ID: 720-51230-1

Date Collected: 07/26/13 09:08

Matrix: Solid

Date Received: 07/26/13 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141068	07/29/13 08:07	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		5	141078	07/29/13 16:19	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			140976	07/26/13 14:53	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	140938	07/27/13 02:51	DCH	TAL PLS

Client Sample ID: CS-B2(2.5)

Lab Sample ID: 720-51230-2

Date Collected: 07/26/13 09:10

Matrix: Solid

Date Received: 07/26/13 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			140976	07/26/13 14:53	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	140938	07/27/13 00:49	DCH	TAL PLS

Client Sample ID: CS-B3(1.0)

Lab Sample ID: 720-51230-3

Date Collected: 07/26/13 09:12

Matrix: Solid

Date Received: 07/26/13 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			140976	07/26/13 14:53	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	141063	07/29/13 14:13	DCH	TAL PLS

Client Sample ID: CS-B4(2.5)

Lab Sample ID: 720-51230-4

Date Collected: 07/26/13 09:14

Matrix: Solid

Date Received: 07/26/13 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			140976	07/26/13 14:53	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	141063	07/29/13 13:49	DCH	TAL PLS

Client Sample ID: CS-B5(2.0)

Lab Sample ID: 720-51230-5

Date Collected: 07/26/13 09:16

Matrix: Solid

Date Received: 07/26/13 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			140976	07/26/13 14:53	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	140937	07/27/13 01:38	DCH	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-1

Client Sample ID: CS-B6(3.0)

Lab Sample ID: 720-51230-6

Date Collected: 07/26/13 09:18

Matrix: Solid

Date Received: 07/26/13 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			140976	07/26/13 14:53	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	140938	07/27/13 01:13	DCH	TAL PLS

Client Sample ID: CS-B7(2.0)

Lab Sample ID: 720-51230-7

Date Collected: 07/26/13 09:20

Matrix: Solid

Date Received: 07/26/13 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			140976	07/26/13 14:53	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	140937	07/27/13 02:02	DCH	TAL PLS

Client Sample ID: CS-B8(2.0)

Lab Sample ID: 720-51230-8

Date Collected: 07/26/13 09:22

Matrix: Solid

Date Received: 07/26/13 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			140976	07/26/13 14:53	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	141062	07/29/13 14:38	DCH	TAL PLS

Client Sample ID: CS-B9(0.5)

Lab Sample ID: 720-51230-9

Date Collected: 07/26/13 09:24

Matrix: Solid

Date Received: 07/26/13 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			140976	07/26/13 14:53	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	141062	07/29/13 15:02	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-1

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51230-1	CS-B1(2.5)	Solid	07/26/13 09:08	07/26/13 14:15
720-51230-2	CS-B2(2.5)	Solid	07/26/13 09:10	07/26/13 14:15
720-51230-3	CS-B3(1.0)	Solid	07/26/13 09:12	07/26/13 14:15
720-51230-4	CS-B4(2.5)	Solid	07/26/13 09:14	07/26/13 14:15
720-51230-5	CS-B5(2.0)	Solid	07/26/13 09:16	07/26/13 14:15
720-51230-6	CS-B6(3.0)	Solid	07/26/13 09:18	07/26/13 14:15
720-51230-7	CS-B7(2.0)	Solid	07/26/13 09:20	07/26/13 14:15
720-51230-8	CS-B8(2.0)	Solid	07/26/13 09:22	07/26/13 14:15
720-51230-9	CS-B9(0.5)	Solid	07/26/13 09:24	07/26/13 14:15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-51230

Reference #: 147510

Date 7/26/13 Page 1 of 2

7/30/2013

Report To

Attn: Kristen Guthrie
Company: Haley & Aldrich
Address: 2033 N. Main St. Ste 309 Walnut Creek
Email: kguthrie@haleyaldrich.com
Bill To: H&A
Sampled By: JS/JK
Attn:
Phone: (925) 949-1013

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200 8 (ICP-MS)	☐ W E T (STLC) ☐ W.E T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314 0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Naphthalene by 8270C SIM		Number of Containers
CS-B1(2.5)	7/26/13	0908	S	UP				X																X		1
CS-B2(2.5)		0910						X																		1
CS-B3(1.0)		0912						X																		1
CSB4(2.5)		0914						X																		1
CS-B5(2.0)		0916						X																		1
CS-B6(3.0)		0918						X																		1
CS-B7(2.0)		0920						X																		1
CS-B8(2.0)		0922						X																		1
CS-B9(0.5)		0924						X																		1
CFI-B4(5.0)	↓	1054	↓	↓				X																		1

Project Info

Project Name/ #: 39792-000 Hanson
PO#:
Credit Card Y/N: If yes, please call for payment information ASAP

Sample Receipt

of Containers: 13
Head Space:
Temp: 5.7°C

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID
*Please run all CF samples on 72-HR & all CS samples on 48-HR

See Terms and Conditions on reverse

1) Relinquished by: Josephine Kimura 1415
Signature Time
Josephine Kimura 7/26/13
Printed Name Date
Haley & Aldrich
Company

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by
Signature Time
Printed Name Date
Company

720-51230 Chain of Custody

1) Received by: 1415
Signature Time
T Bulloce 7/26/13
Printed Name Date
TA
Company

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by:
Signature Time
Printed Name Date
Company

RUSH

Rev.10/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-51230

Reference #: 147510

Date 7/26/13 Page 2 of 2

7/30/2013

Report To

Attn: Kristen Guthrie
Company: Haley & Aldrich
Address: 2033 N. Main St. Ste 309 Walnut Creek
Email: kguthrie@haleyaldrich.com
Bill To: H&A
Sampled By: JS/JK
Attn:
Phone: (925) 949-1013

Analysis Request

Sample	Date	Time	Mat.	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	X Naphthalene by 8270C		Number of Containers
CF1-S1(1.5)	7/26/13	1050	S	UP				X														X				1
CF1-B2(5.0)	↓	1056	↓	↓				X																		1
CF1-B3(5.0)	↓	1058	↓	↓				X																		1

Project Info

Project Name/ #: 39792-000 Hanson
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers: 13
Head Space:
Temp:

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | (2 Day) | 1 Day | Other:
*

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
*Please RUN all CF samples on 72-hr & all CS samples on 48-hr

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by
Signature: Josephine Kimura Time: 1415	Signature: Time:	Signature: Time:
Printed Name: Josephine Kimura Date: 7/26/13	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by
Signature: Time: 1415	Signature: Time:	Signature: Time:
Printed Name: T Bullock Date: 7/26/13	Printed Name: Date:	Printed Name: Date:
Company: TA	Company:	Company:

Rev 10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51230-1

Login Number: 51230

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51230-2
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
7/31/2013 9:15:57 AM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51230-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51230-2

Comments
No additional comments.

Receipt
The samples were received on 7/26/2013 2:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 5.7º C.

GC/MS Semi VOA
Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: CF1-S1(1.5) (720-51230-11).
Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: CF1-S1(1.5) (720-51230-11).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-2

Client Sample ID: CF1-B4(5.0) — Lab Sample ID: 720-51230-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	51		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	180		150		mg/Kg	3		8015B	Silica Gel Cleanup

Client Sample ID: CF1-S1(1.5) — Lab Sample ID: 720-51230-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2400		50		mg/Kg	50		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	6400		2500		mg/Kg	50		8015B	Silica Gel Cleanup

Client Sample ID: CF1-B2(5.0) — Lab Sample ID: 720-51230-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	18		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CF1-B3(5.0) — Lab Sample ID: 720-51230-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.6		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-2

Client Sample ID: CF1-B4(5.0)
Date Collected: 07/26/13 10:54
Date Received: 07/26/13 14:15

Lab Sample ID: 720-51230-10
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	51		3.0		mg/Kg		07/26/13 14:53	07/29/13 15:55	3
Motor Oil Range Organics [C24-C36]	180		150		mg/Kg		07/26/13 14:53	07/29/13 15:55	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.1*		*0 - 1*	*07/26/13 14:53*	*07/29/13 15:55*	*3*
p-Terphenyl	*79*		*38 - 148*	*07/26/13 14:53*	*07/29/13 15:55*	*3*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-2

Client Sample ID: CF1-S1(1.5)
Date Collected: 07/26/13 10:50
Date Received: 07/26/13 14:15

Lab Sample ID: 720-51230-11
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		99		ug/Kg		07/29/13 08:07	07/29/13 16:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*96*		*33 - 120*	*07/29/13 08:07*	*07/29/13 16:42*	*10*
Terphenyl-d14	*103*		*35 - 146*	*07/29/13 08:07*	*07/29/13 16:42*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2400		50		mg/Kg		07/26/13 14:53	07/29/13 15:02	50
Motor Oil Range Organics [C24-C36]	6400		2500		mg/Kg		07/26/13 14:53	07/29/13 15:02	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*07/26/13 14:53*	*07/29/13 15:02*	*50*
p-Terphenyl	*0*	*X D*	*38 - 148*	*07/26/13 14:53*	*07/29/13 15:02*	*50*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-2

Client Sample ID: CF1-B2(5.0)
Date Collected: 07/26/13 10:56
Date Received: 07/26/13 14:15

Lab Sample ID: 720-51230-12
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**18**		1.0		mg/Kg		07/26/13 14:53	07/27/13 01:38	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/26/13 14:53	07/27/13 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.3*		*0 - 1*	*07/26/13 14:53*	*07/27/13 01:38*	*1*
p-Terphenyl	*83*		*38 - 148*	*07/26/13 14:53*	*07/27/13 01:38*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-2

Client Sample ID: CF1-B3(5.0)
Date Collected: 07/26/13 10:58
Date Received: 07/26/13 14:15

Lab Sample ID: 720-51230-13
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.6**		0.99		mg/Kg		07/26/13 14:53	07/27/13 02:02	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		07/26/13 14:53	07/27/13 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*07/26/13 14:53*	*07/27/13 02:02*	*1*
p-Terphenyl	*86*		*38 - 148*	*07/26/13 14:53*	*07/27/13 02:02*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-141068/1-A
Matrix: Solid
Analysis Batch: 141079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 141068

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		07/29/13 08:07	07/29/13 15:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*07/29/13 08:07*	*07/29/13 15:17*	*1*
Terphenyl-d14	*111*		*35 - 146*	*07/29/13 08:07*	*07/29/13 15:17*	*1*

Lab Sample ID: LCS 720-141068/2-A
Matrix: Solid
Analysis Batch: 141079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141068

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	333	225		ug/Kg		68	46 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*72*		*33 - 120*
Terphenyl-d14	*101*		*35 - 146*

Lab Sample ID: LCSD 720-141068/3-A
Matrix: Solid
Analysis Batch: 141079

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 141068

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	333	215		ug/Kg		65	46 - 120	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*33 - 120*
Terphenyl-d14	*104*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-140976/1-A
Matrix: Solid
Analysis Batch: 140938

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 140976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/26/13 14:53	07/27/13 05:41	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/26/13 14:53	07/27/13 05:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*07/26/13 14:53*	*07/27/13 05:41*	*1*
p-Terphenyl	*85*		*38 - 148*	*07/26/13 14:53*	*07/27/13 05:41*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-140976/2-A
Matrix: Solid
Analysis Batch: 140938

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 140976

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.2	52.3		mg/Kg		64	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*96*		*38 - 148*

Lab Sample ID: LCSD 720-140976/3-A
Matrix: Solid
Analysis Batch: 140938

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 140976

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.9	56.5		mg/Kg		68	36 - 112	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*99*		*38 - 148*

GC/MS Semi VOA

Prep Batch: 141068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51230-11	CF1-S1(1.5)	Total/NA	Solid	3546	
LCS 720-141068/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-141068/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-141068/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 141078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51230-11	CF1-S1(1.5)	Total/NA	Solid	8270C SIM	141068

Analysis Batch: 141079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-141068/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	141068
LCSD 720-141068/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	141068
MB 720-141068/1-A	Method Blank	Total/NA	Solid	8270C SIM	141068

GC Semi VOA

Analysis Batch: 140938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51230-12	CF1-B2(5.0)	Silica Gel Cleanup	Solid	8015B	140976
720-51230-13	CF1-B3(5.0)	Silica Gel Cleanup	Solid	8015B	140976
LCS 720-140976/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	140976
LCSD 720-140976/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	140976
MB 720-140976/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	140976

Prep Batch: 140976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51230-10	CF1-B4(5.0)	Silica Gel Cleanup	Solid	3546	
720-51230-11	CF1-S1(1.5)	Silica Gel Cleanup	Solid	3546	
720-51230-12	CF1-B2(5.0)	Silica Gel Cleanup	Solid	3546	
720-51230-13	CF1-B3(5.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-140976/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-140976/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-140976/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 141062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51230-10	CF1-B4(5.0)	Silica Gel Cleanup	Solid	8015B	140976

Analysis Batch: 141063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51230-11	CF1-S1(1.5)	Silica Gel Cleanup	Solid	8015B	140976

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-2

Client Sample ID: CF1-B4(5.0)

Lab Sample ID: 720-51230-10

Date Collected: 07/26/13 10:54

Matrix: Solid

Date Received: 07/26/13 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			140976	07/26/13 14:53	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	141062	07/29/13 15:55	DCH	TAL PLS

Client Sample ID: CF1-S1(1.5)

Lab Sample ID: 720-51230-11

Date Collected: 07/26/13 10:50

Matrix: Solid

Date Received: 07/26/13 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141068	07/29/13 08:07	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		10	141078	07/29/13 16:42	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			140976	07/26/13 14:53	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		50	141063	07/29/13 15:02	DCH	TAL PLS

Client Sample ID: CF1-B2(5.0)

Lab Sample ID: 720-51230-12

Date Collected: 07/26/13 10:56

Matrix: Solid

Date Received: 07/26/13 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			140976	07/26/13 14:53	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	140938	07/27/13 01:38	DCH	TAL PLS

Client Sample ID: CF1-B3(5.0)

Lab Sample ID: 720-51230-13

Date Collected: 07/26/13 10:58

Matrix: Solid

Date Received: 07/26/13 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			140976	07/26/13 14:53	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	140938	07/27/13 02:02	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-2

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-2

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51230-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51230-10	CF1-B4(5.0)	Solid	07/26/13 10:54	07/26/13 14:15
720-51230-11	CF1-S1(1.5)	Solid	07/26/13 10:50	07/26/13 14:15
720-51230-12	CF1-B2(5.0)	Solid	07/26/13 10:56	07/26/13 14:15
720-51230-13	CF1-B3(5.0)	Solid	07/26/13 10:58	07/26/13 14:15

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TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-51230

Reference #: 147510

Date 7/26/13 Page 1 of 2

7/31/2013

Report To

Attn: Kristen Guthrie
Company: Haley & Aldrich
Address: 2033 N. Main St. Ste 309 Walnut Creek
Email: kguthrie@haleyaldrich.com
Bill To: H&A
Sampled By: JS/JK
Attn:
Phone: (925) 949-1013

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS)	☐ WET (STLC) ☐ WET (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Naphthalene by 8270C SIM		Number of Containers
CS-B1(2.5)	7/26/13	0908	S	UP				X																X		1
CS-B2(2.5)		0910						X																		1
CS-B3(1.0)		0912						X																		1
CSB4(2.5)		0914						X																		1
CS-B5(2.0)		0916						X																		1
CS-B6(3.0)		0918						X																		1
CS-B7(2.0)		0920						X																		1
CS-B8(2.0)		0922						X																		1
CS-B9(0.5)		0924						X																		1
CFI-B4(5.0)		1054						X																		1

Project Info

Project Name/ #: 397792-000 Hanson
PO#:
Credit Card Y/N: If yes, please call for payment information ASAP

Sample Receipt

of Containers: 13
Head Space:
Temp: 5.7°C

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other: *

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID
*Please run all CF samples on 72-HR & all CS samples on 48-HR

See Terms and Conditions on reverse

1) Relinquished by: Josephine Kimura 1415
Signature Time
Josephine Kimura 7/26/13
Printed Name Date
Haley & Aldrich
Company

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by
Signature Time
Printed Name Date
Company

720-51230 Chain of Custody

1) Received by: 1415
Signature Time
T Bulloce 7/26/13
Printed Name Date
TA
Company

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by:
Signature Time
Printed Name Date
Company

RUSH

Rev.10/2012

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-51230

Reference #: 147510

Date 7/26/13 Page 2 of 2

7/31/2013

Report To

Attn: Kristen Guthrie
Company: Haley & Aldrich
Address: 2033 N. Main St. Ste 309 Walnut Creek
Email: kguthrie@haleyaldrich.com
Bill To: H&A
Sampled By: JS/JK
Attn:
Phone: (925) 949-1013

Analysis Request

Sample ID	Date	Time	Mat.	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ WET (STLC) ☐ WET (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	X Naphthalene by 8270C		Number of Containers
CF1-S1(1.5)	7/26/13	1050	S	UP				X														X				1
CF1-B2(5.0)	↓	1056	↓	↓				X																		1
CF1-B3(5.0)	↓	1058	↓	↓				X																		1

Project Info

Project Name/ #: 39792-000 Hanson
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers: 13
Head Space:
Temp:

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | (2 Day) | 1 Day | Other:
*

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID
*Please RUN all CF samples on 72-hr & all CS samples on 48-hr

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by
Signature: Josephine Kimura Time: 1415	Signature: Time:	Signature: Time:
Printed Name: Josephine Kimura Date: 7/26/13	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by
Signature: Time: 1415	Signature: Time:	Signature: Time:
Printed Name: T Bullock Date: 7/26/13	Printed Name: Date:	Printed Name: Date:
Company: TA	Company:	Company:

Rev 10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51230-2

Login Number: 51230

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51268-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
7/31/2013 4:47:36 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51268-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51268-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51268-1

Comments
No additional comments.

Receipt
The samples were received on 7/29/2013 4:08 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5º C.

GC/MS Semi VOA
No analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: (720-51268-1 MS), (720-51268-1 MSD), CF2-B1(3.0) (720-51268-1).

Method 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for batch 141177 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51268-1

Client Sample ID: CF2-B1(3.0) — Lab Sample ID: 720-51268-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	230		9.8		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	810		490		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: CF3-B1(3.0) — Lab Sample ID: 720-51268-2

No Detections.

Client Sample ID: CF4-B1(3.0) — Lab Sample ID: 720-51268-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	15		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	62		49		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51268-1

Client Sample ID: CF2-B1(3.0)
Date Collected: 07/29/13 08:08
Date Received: 07/29/13 16:08

Lab Sample ID: 720-51268-1
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		49		ug/Kg		07/30/13 14:33	07/31/13 13:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*33 - 120*	*07/30/13 14:33*	*07/31/13 13:36*	*10*
Terphenyl-d14	*86*		*35 - 146*	*07/30/13 14:33*	*07/31/13 13:36*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**230**		9.8		mg/Kg		07/30/13 14:34	07/31/13 09:50	10
Motor Oil Range Organics [C24-C36]	**810**		490		mg/Kg		07/30/13 14:34	07/31/13 09:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*07/30/13 14:34*	*07/31/13 09:50*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*07/30/13 14:34*	*07/31/13 09:50*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51268-1

Client Sample ID: CF3-B1(3.0)
Date Collected: 07/29/13 08:12
Date Received: 07/29/13 16:08

Lab Sample ID: 720-51268-2
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		07/30/13 14:36	07/31/13 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*33 - 120*	*07/30/13 14:36*	*07/31/13 12:55*	*1*
Terphenyl-d14	*92*		*35 - 146*	*07/30/13 14:36*	*07/31/13 12:55*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98		mg/Kg		07/30/13 14:34	07/31/13 00:47	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		07/30/13 14:34	07/31/13 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 1*	*07/30/13 14:34*	*07/31/13 00:47*	*1*
p-Terphenyl	*92*		*38 - 148*	*07/30/13 14:34*	*07/31/13 00:47*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51268-1

Client Sample ID: CF4-B1(3.0)
Date Collected: 07/29/13 08:14
Date Received: 07/29/13 16:08

Lab Sample ID: 720-51268-3
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		4.9		ug/Kg		07/30/13 14:36	07/31/13 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*33 - 120*	*07/30/13 14:36*	*07/31/13 13:15*	*1*
Terphenyl-d14	*95*		*35 - 146*	*07/30/13 14:36*	*07/31/13 13:15*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**15**		0.99		mg/Kg		07/30/13 14:34	07/31/13 01:16	1
Motor Oil Range Organics [C24-C36]	**62**		49		mg/Kg		07/30/13 14:34	07/31/13 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*07/30/13 14:34*	*07/31/13 01:16*	*1*
p-Terphenyl	*71*		*38 - 148*	*07/30/13 14:34*	*07/31/13 01:16*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-141175/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141262 — **Prep Batch: 141175**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		4.9		ug/Kg		07/30/13 14:27	07/31/13 12:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*33 - 120*	*07/30/13 14:27*	*07/31/13 12:34*	*1*
Terphenyl-d14	*90*		*35 - 146*	*07/30/13 14:27*	*07/31/13 12:34*	*1*

Lab Sample ID: LCS 720-141175/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141262 — **Prep Batch: 141175**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			328	246		ug/Kg		75	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*33 - 120*
Terphenyl-d14	*92*		*35 - 146*

Lab Sample ID: LCSD 720-141175/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141262 — **Prep Batch: 141175**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			328	251		ug/Kg		76	46 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*33 - 120*
Terphenyl-d14	*93*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-141177/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Silica Gel Cleanup**
Analysis Batch: 141140 — **Prep Batch: 141177**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/30/13 14:34	07/31/13 03:13	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/30/13 14:34	07/31/13 03:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.1*		*0 - 1*	*07/30/13 14:34*	*07/31/13 03:13*	*1*
p-Terphenyl	*98*		*38 - 148*	*07/30/13 14:34*	*07/31/13 03:13*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-141177/2-A
Matrix: Solid
Analysis Batch: 141140

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 141177

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.0	65.1		mg/Kg		79	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*104*		*38 - 148*

Lab Sample ID: LCSD 720-141177/3-A
Matrix: Solid
Analysis Batch: 141140

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 141177

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.0	74.0		mg/Kg		90	36 - 112	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*118*		*38 - 148*

Lab Sample ID: 720-51268-1 MS
Matrix: Solid
Analysis Batch: 141236

Client Sample ID: CF2-B1(3.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 141177

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	230		82.0	214	F	mg/Kg		-17	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*38 - 148*

Lab Sample ID: 720-51268-1 MSD
Matrix: Solid
Analysis Batch: 141236

Client Sample ID: CF2-B1(3.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 141177

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	230		82.2	290		mg/Kg		75	50 - 150	30	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*38 - 148*

GC/MS Semi VOA

Prep Batch: 141175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51268-1	CF2-B1(3.0)	Total/NA	Solid	3546	
720-51268-2	CF3-B1(3.0)	Total/NA	Solid	3546	
720-51268-3	CF4-B1(3.0)	Total/NA	Solid	3546	
LCS 720-141175/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-141175/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-141175/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 141262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51268-1	CF2-B1(3.0)	Total/NA	Solid	8270C SIM	141175
720-51268-2	CF3-B1(3.0)	Total/NA	Solid	8270C SIM	141175
720-51268-3	CF4-B1(3.0)	Total/NA	Solid	8270C SIM	141175
LCS 720-141175/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	141175
LCSD 720-141175/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	141175
MB 720-141175/1-A	Method Blank	Total/NA	Solid	8270C SIM	141175

GC Semi VOA

Analysis Batch: 141140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-141177/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	141177
LCSD 720-141177/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	141177
MB 720-141177/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	141177

Analysis Batch: 141141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51268-2	CF3-B1(3.0)	Silica Gel Cleanup	Solid	8015B	141177
720-51268-3	CF4-B1(3.0)	Silica Gel Cleanup	Solid	8015B	141177

Prep Batch: 141177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51268-1	CF2-B1(3.0)	Silica Gel Cleanup	Solid	3546	
720-51268-1 MS	CF2-B1(3.0)	Silica Gel Cleanup	Solid	3546	
720-51268-1 MSD	CF2-B1(3.0)	Silica Gel Cleanup	Solid	3546	
720-51268-2	CF3-B1(3.0)	Silica Gel Cleanup	Solid	3546	
720-51268-3	CF4-B1(3.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-141177/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-141177/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-141177/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 141236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51268-1	CF2-B1(3.0)	Silica Gel Cleanup	Solid	8015B	141177
720-51268-1 MS	CF2-B1(3.0)	Silica Gel Cleanup	Solid	8015B	141177
720-51268-1 MSD	CF2-B1(3.0)	Silica Gel Cleanup	Solid	8015B	141177

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51268-1

Client Sample ID: CF2-B1(3.0)

Lab Sample ID: 720-51268-1

Date Collected: 07/29/13 08:08

Matrix: Solid

Date Received: 07/29/13 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141175	07/30/13 14:33	DFR	TAL PLS
Total/NA	Analysis	8270C SIM		10	141262	07/31/13 13:36	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			141177	07/30/13 14:34	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	141236	07/31/13 09:50	DCH	TAL PLS

Client Sample ID: CF3-B1(3.0)

Lab Sample ID: 720-51268-2

Date Collected: 07/29/13 08:12

Matrix: Solid

Date Received: 07/29/13 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141175	07/30/13 14:36	DFR	TAL PLS
Total/NA	Analysis	8270C SIM		1	141262	07/31/13 12:55	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			141177	07/30/13 14:34	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141141	07/31/13 00:47	DCH	TAL PLS

Client Sample ID: CF4-B1(3.0)

Lab Sample ID: 720-51268-3

Date Collected: 07/29/13 08:14

Matrix: Solid

Date Received: 07/29/13 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141175	07/30/13 14:36	DFR	TAL PLS
Total/NA	Analysis	8270C SIM		1	141262	07/31/13 13:15	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			141177	07/30/13 14:34	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141141	07/31/13 01:16	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51268-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51268-1

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51268-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51268-1	CF2-B1(3.0)	Solid	07/29/13 08:08	07/29/13 16:08
720-51268-2	CF3-B1(3.0)	Solid	07/29/13 08:12	07/29/13 16:08
720-51268-3	CF4-B1(3.0)	Solid	07/29/13 08:14	07/29/13 16:08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-51268

Reference #: 147557

Date 7/29/13 Page 1 of 1

7/31/2013

Report To

Attn: KRISTIN GUTHRIE
Company: Haley & Aldrich
Address: 2033 N. Main St, Walnut Creek
Email: KGUTHRIE@haleyaldrich.com
Bill To: H&A
Sampled By: J Sebik
Attn:
Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	NAPHTHALENE PNA/PAHs by ☐ 8270C ☒ 8270C SIM ONLY	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals ☐ 6020 ☐ 200.8 (ICP-MS)	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
CF2-B1(3.0)	7/29/13	0808	S	ice				X		X															1
CF3-B1(3.0)	7/29/13	0812	S	ice				X		X															1
CF4-B1(3.0)	7/29/13	0814	S	ice				X		X															1

RUSH

JS 7/29/13

Page 16 of 18

Project Info

Project Name/ #: Former Hanson Aggregate Facility
PO#: 39792-004
Credit Card Y/N:

Sample Receipt

of Containers:
Head Space:
Temp: 1.5°C
If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | 2 Day | 1 Day | Other.

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	Joanna Sebik 1608		
Printed Name / Date	JOANNA SEBIK 7/29/13		
Company	Haley & Aldrich		

720-51268 Chain of Custody

	1) Received by:	2) Received by	
Signature / Time	Loren Mullen 1608		
Printed Name / Date	Mullen 7-29-13		
Company	test America		

Rev 10/2012

Sharma, Dimple

From: Brownsberger, Rae [RBrownsberger@haleyaldrich.com]
Sent: Monday, July 29, 2013 6:06 PM
To: Sharma, Dimple; Guthrie, Kristin; Miller, Katherine
Cc: Sebik, Joanna
Subject: RE: Sample Login Confirmation for 720-51268, Hansen

Dimple,
Please add silica gel cleanup to these samples. Also, no Stoddard solvent range needed, just TPH d/mo. Also, please bump up to 48 hr turn if possible.
Thanks,
Rae

From: Sharma, Dimple [mailto:dimple.sharma@testamericainc.com]
Sent: Monday, July 29, 2013 5:36 PM
To: Guthrie, Kristin; Miller, Katherine; Brownsberger, Rae
Subject: Sample Login Confirmation for 720-51268, Hansen

RUSH

DIMPLE SHARMA

TestAmerica Pleasanton
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 925.484.1919
www.testamericainc.com

Reference: [135752]
Attachments: 3

720-51268 Chain of Custody

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51268-1

Login Number: 51268

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51516-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
8/12/2013 5:10:56 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51516-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51516-1

Comments
No additional comments.

Receipt
The samples were received on 8/8/2013 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0º C.

GC/MS Semi VOA
Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: EX3-S1(4.0) (720-51516-9), EX1-S2(3.0) (720-51516-5), EX2-S4(3.0) (720-51516-17). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: Surrogate recovery for the following sample was outside the upper control limit: EX2-S4(3.0) (720-51516-17). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: (720-51516-22 MS), (720-51516-22 MSD).

Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: (720-51516-2 MS), (720-51516-2 MSD), EX3-S1(4.0) (720-51516-9).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX1-B1(6.0) — Lab Sample ID: 720-51516-3

No Detections.

Client Sample ID: EX1-S1(3.0) — Lab Sample ID: 720-51516-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.0		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX1-S2(3.0) — Lab Sample ID: 720-51516-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	25		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	91		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX1-S3(3.0) — Lab Sample ID: 720-51516-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.3		0.98		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX1-S4(3.0) — Lab Sample ID: 720-51516-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	16		0.98		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	64		49		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX3-B1(8.0) — Lab Sample ID: 720-51516-8

No Detections.

Client Sample ID: EX3-S1(4.0) — Lab Sample ID: 720-51516-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3400		120		mg/Kg	50		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	9700		6200		mg/Kg	50		8015B	Silica Gel Cleanup

Client Sample ID: EX3-S2(4.5) — Lab Sample ID: 720-51516-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	23		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	60		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX3-S3(4.5) — Lab Sample ID: 720-51516-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.2		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX3-S4(3.5) — Lab Sample ID: 720-51516-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	11		5.0		ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1.2		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX2-B1(6.0) — Lab Sample ID: 720-51516-13

No Detections.

Client Sample ID: EX2-S1(3.5) — Lab Sample ID: 720-51516-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.1		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX2-S2(3.5) — Lab Sample ID: 720-51516-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	10		4.9		ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1.8		0.98		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX2-S3(3.0) — Lab Sample ID: 720-51516-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	38		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	110		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX2-S4(3.0) — Lab Sample ID: 720-51516-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	61		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	220		150		mg/Kg	3		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX1-B1(6.0)
Date Collected: 08/08/13 11:20
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/08/13 19:35	08/09/13 14:49	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/08/13 19:35	08/09/13 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*08/08/13 19:35*	*08/09/13 14:49*	*1*
p-Terphenyl	*85*		*38 - 148*	*08/08/13 19:35*	*08/09/13 14:49*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX1-S1(3.0)
Date Collected: 08/08/13 11:24
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.0**		1.0		mg/Kg		08/08/13 19:35	08/09/13 18:31	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/08/13 19:35	08/09/13 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.0009*		*0 - 1*	*08/08/13 19:35*	*08/09/13 18:31*	*1*
p-Terphenyl	*76*		*38 - 148*	*08/08/13 19:35*	*08/09/13 18:31*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX1-S2(3.0)
Date Collected: 08/08/13 11:22
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-5
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg		08/08/13 19:18	08/09/13 16:25	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*33 - 120*	*08/08/13 19:18*	*08/09/13 16:25*	*2*
Terphenyl-d14	*92*		*35 - 146*	*08/08/13 19:18*	*08/09/13 16:25*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**25**		0.99		mg/Kg		08/08/13 19:35	08/10/13 19:30	1
Motor Oil Range Organics [C24-C36]	**91**		50		mg/Kg		08/08/13 19:35	08/10/13 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.3*		*0 - 1*	*08/08/13 19:35*	*08/10/13 19:30*	*1*
p-Terphenyl	*79*		*38 - 148*	*08/08/13 19:35*	*08/10/13 19:30*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX1-S3(3.0)
Date Collected: 08/08/13 11:26
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-6
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.3**		0.98		mg/Kg		08/08/13 19:35	08/09/13 15:15	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/08/13 19:35	08/09/13 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*08/08/13 19:35*	*08/09/13 15:15*	*1*
p-Terphenyl	*84*		*38 - 148*	*08/08/13 19:35*	*08/09/13 15:15*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX1-S4(3.0)
Date Collected: 08/08/13 11:28
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-7
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		08/08/13 19:18	08/09/13 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*33 - 120*	*08/08/13 19:18*	*08/09/13 16:48*	*1*
Terphenyl-d14	*70*		*35 - 146*	*08/08/13 19:18*	*08/09/13 16:48*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**16**		0.98		mg/Kg		08/08/13 19:35	08/12/13 10:30	1
Motor Oil Range Organics [C24-C36]	**64**		49		mg/Kg		08/08/13 19:35	08/12/13 10:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.3*		*0 - 1*	*08/08/13 19:35*	*08/12/13 10:30*	*1*
p-Terphenyl	*85*		*38 - 148*	*08/08/13 19:35*	*08/12/13 10:30*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX3-B1(8.0)
Date Collected: 08/08/13 10:28
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-8
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98		mg/Kg		08/08/13 19:35	08/09/13 15:40	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/08/13 19:35	08/09/13 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.004*		*0 - 1*	*08/08/13 19:35*	*08/09/13 15:40*	*1*
p-Terphenyl	*88*		*38 - 148*	*08/08/13 19:35*	*08/09/13 15:40*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX3-S1(4.0)
Date Collected: 08/08/13 10:31
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-9
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		500		ug/Kg		08/08/13 19:18	08/11/13 17:20	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*33 - 120*	*08/08/13 19:18*	*08/11/13 17:20*	*20*
Terphenyl-d14	*106*		*35 - 146*	*08/08/13 19:18*	*08/11/13 17:20*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3400**		120		mg/Kg		08/08/13 19:35	08/09/13 16:04	50
Motor Oil Range Organics [C24-C36]	**9700**		6200		mg/Kg		08/08/13 19:35	08/09/13 16:04	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/08/13 19:35*	*08/09/13 16:04*	*50*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/08/13 19:35*	*08/09/13 16:04*	*50*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX3-S2(4.5)
Date Collected: 08/08/13 10:34
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-10
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	23		1.0		mg/Kg		08/08/13 19:35	08/09/13 14:49	1
Motor Oil Range Organics [C24-C36]	60		50		mg/Kg		08/08/13 19:35	08/09/13 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.06*		*0 - 1*	*08/08/13 19:35*	*08/09/13 14:49*	*1*
p-Terphenyl	*88*		*38 - 148*	*08/08/13 19:35*	*08/09/13 14:49*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX3-S3(4.5)
Date Collected: 08/08/13 10:33
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-11
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.2**		0.99		mg/Kg		08/08/13 19:35	08/09/13 16:04	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/08/13 19:35	08/09/13 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.09*		*0 - 1*	*08/08/13 19:35*	*08/09/13 16:04*	*1*
p-Terphenyl	*75*		*38 - 148*	*08/08/13 19:35*	*08/09/13 16:04*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX3-S4(3.5)
Date Collected: 08/08/13 10:30
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-12
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	11		5.0		ug/Kg		08/08/13 19:18	08/09/13 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*33 - 120*	*08/08/13 19:18*	*08/09/13 15:15*	*1*
Terphenyl-d14	*77*		*35 - 146*	*08/08/13 19:18*	*08/09/13 15:15*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.2		0.99		mg/Kg		08/08/13 19:35	08/09/13 16:29	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/08/13 19:35	08/09/13 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.04*		*0 - 1*	*08/08/13 19:35*	*08/09/13 16:29*	*1*
p-Terphenyl	*69*		*38 - 148*	*08/08/13 19:35*	*08/09/13 16:29*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX2-B1(6.0)
Date Collected: 08/08/13 12:49
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-13
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/08/13 19:35	08/09/13 16:53	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/08/13 19:35	08/09/13 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 1*	*08/08/13 19:35*	*08/09/13 16:53*	*1*
p-Terphenyl	*79*		*38 - 148*	*08/08/13 19:35*	*08/09/13 16:53*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX2-S1(3.5)
Date Collected: 08/08/13 12:51
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-14
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.1**		0.99		mg/Kg		08/08/13 19:35	08/09/13 17:18	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/08/13 19:35	08/09/13 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 1*	*08/08/13 19:35*	*08/09/13 17:18*	*1*
p-Terphenyl	*76*		*38 - 148*	*08/08/13 19:35*	*08/09/13 17:18*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX2-S2(3.5)
Date Collected: 08/08/13 12:55
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-15
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	10		4.9		ug/Kg		08/08/13 19:18	08/09/13 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*33 - 120*	*08/08/13 19:18*	*08/09/13 17:34*	*1*
Terphenyl-d14	*82*		*35 - 146*	*08/08/13 19:18*	*08/09/13 17:34*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.8		0.98		mg/Kg		08/08/13 19:35	08/09/13 17:42	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/08/13 19:35	08/09/13 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*08/08/13 19:35*	*08/09/13 17:42*	*1*
p-Terphenyl	*74*		*38 - 148*	*08/08/13 19:35*	*08/09/13 17:42*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX2-S3(3.0)
Date Collected: 08/08/13 12:53
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-16
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	38		1.0		mg/Kg		08/09/13 11:13	08/10/13 00:44	1
Motor Oil Range Organics [C24-C36]	110		50		mg/Kg		08/09/13 11:13	08/10/13 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.1*		*0 - 1*	*08/09/13 11:13*	*08/10/13 00:44*	*1*
p-Terphenyl	*84*		*38 - 148*	*08/09/13 11:13*	*08/10/13 00:44*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX2-S4(3.0)
Date Collected: 08/08/13 12:57
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-17
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		25		ug/Kg		08/08/13 19:18	08/09/13 17:57	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*147*	*X*	*33 - 120*	*08/08/13 19:18*	*08/09/13 17:57*	*5*
Terphenyl-d14	*135*		*35 - 146*	*08/08/13 19:18*	*08/09/13 17:57*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**61**		3.0		mg/Kg		08/09/13 11:13	08/09/13 22:56	3
Motor Oil Range Organics [C24-C36]	**220**		150		mg/Kg		08/09/13 11:13	08/09/13 22:56	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/09/13 11:13*	*08/09/13 22:56*	*3*
p-Terphenyl	*92*		*38 - 148*	*08/09/13 11:13*	*08/09/13 22:56*	*3*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-141866/1-A
Matrix: Solid
Analysis Batch: 141906

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 141866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		08/08/13 19:18	08/09/13 14:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*33 - 120*	*08/08/13 19:18*	*08/09/13 14:06*	*1*
Terphenyl-d14	*75*		*35 - 146*	*08/08/13 19:18*	*08/09/13 14:06*	*1*

Lab Sample ID: LCS 720-141866/2-A
Matrix: Solid
Analysis Batch: 141906

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141866

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			332	234		ug/Kg		71	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*86*		*33 - 120*
Terphenyl-d14	*87*		*35 - 146*

Lab Sample ID: LCSD 720-141866/3-A
Matrix: Solid
Analysis Batch: 141906

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 141866

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			332	193		ug/Kg		58	46 - 120	19	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*33 - 120*
Terphenyl-d14	*94*		*35 - 146*

Lab Sample ID: 720-51516-5 MS
Matrix: Solid
Analysis Batch: 141906

Client Sample ID: EX1-S2(3.0)
Prep Type: Total/NA
Prep Batch: 141866

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene	ND		333	207		ug/Kg		62	32 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*33 - 120*
Terphenyl-d14	*94*		*35 - 146*

Lab Sample ID: 720-51516-5 MSD
Matrix: Solid
Analysis Batch: 141906

Client Sample ID: EX1-S2(3.0)
Prep Type: Total/NA
Prep Batch: 141866

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		332	241		ug/Kg		73	32 - 120	15	20

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: 720-51516-5 MSD
Matrix: Solid
Analysis Batch: 141906

Client Sample ID: EX1-S2(3.0)
Prep Type: Total/NA
Prep Batch: 141866

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	87		33 - 120
Terphenyl-d14	92		35 - 146

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-141868/1-A
Matrix: Solid
Analysis Batch: 141892

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 141868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/08/13 19:35	08/09/13 22:43	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/08/13 19:35	08/09/13 22:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1	08/08/13 19:35	08/09/13 22:43	1
p-Terphenyl	91		38 - 148	08/08/13 19:35	08/09/13 22:43	1

Lab Sample ID: LCS 720-141868/2-A
Matrix: Solid
Analysis Batch: 141892

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 141868

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.0	51.9		mg/Kg		63	36 - 112		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	103		38 - 148

Lab Sample ID: LCSD 720-141868/3-A
Matrix: Solid
Analysis Batch: 141892

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 141868

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.6	52.1		mg/Kg		63	36 - 112	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	100		38 - 148

Lab Sample ID: MB 720-141902/1-A
Matrix: Solid
Analysis Batch: 141889

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 141902

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/09/13 10:34	08/10/13 04:18	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/09/13 10:34	08/10/13 04:18	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-141902/1-A
Matrix: Solid
Analysis Batch: 141889

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 141902

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1	08/09/13 10:34	08/10/13 04:18	1
p-Terphenyl	106		38 - 148	08/09/13 10:34	08/10/13 04:18	1

Lab Sample ID: LCS 720-141902/2-A
Matrix: Solid
Analysis Batch: 141889

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 141902

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			83.3	62.1		mg/Kg		74	36 - 112		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	107		38 - 148

Lab Sample ID: LCSD 720-141902/3-A
Matrix: Solid
Analysis Batch: 141889

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 141902

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			83.3	60.6		mg/Kg		73	36 - 112	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	109		38 - 148

GC/MS Semi VOA

Prep Batch: 141866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-5	EX1-S2(3.0)	Total/NA	Solid	3546	
720-51516-5 MS	EX1-S2(3.0)	Total/NA	Solid	3546	
720-51516-5 MSD	EX1-S2(3.0)	Total/NA	Solid	3546	
720-51516-7	EX1-S4(3.0)	Total/NA	Solid	3546	
720-51516-9	EX3-S1(4.0)	Total/NA	Solid	3546	
720-51516-12	EX3-S4(3.5)	Total/NA	Solid	3546	
720-51516-15	EX2-S2(3.5)	Total/NA	Solid	3546	
720-51516-17	EX2-S4(3.0)	Total/NA	Solid	3546	
LCS 720-141866/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-141866/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-141866/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 141906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-5	EX1-S2(3.0)	Total/NA	Solid	8270C SIM	141866
720-51516-5 MS	EX1-S2(3.0)	Total/NA	Solid	8270C SIM	141866
720-51516-5 MSD	EX1-S2(3.0)	Total/NA	Solid	8270C SIM	141866
720-51516-7	EX1-S4(3.0)	Total/NA	Solid	8270C SIM	141866
720-51516-12	EX3-S4(3.5)	Total/NA	Solid	8270C SIM	141866
720-51516-15	EX2-S2(3.5)	Total/NA	Solid	8270C SIM	141866
720-51516-17	EX2-S4(3.0)	Total/NA	Solid	8270C SIM	141866
LCS 720-141866/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	141866
LCSD 720-141866/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	141866
MB 720-141866/1-A	Method Blank	Total/NA	Solid	8270C SIM	141866

Analysis Batch: 142001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-9	EX3-S1(4.0)	Total/NA	Solid	8270C SIM	141866

GC Semi VOA

Prep Batch: 141868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-3	EX1-B1(6.0)	Silica Gel Cleanup	Solid	3546	
720-51516-4	EX1-S1(3.0)	Silica Gel Cleanup	Solid	3546	
720-51516-5	EX1-S2(3.0)	Silica Gel Cleanup	Solid	3546	
720-51516-6	EX1-S3(3.0)	Silica Gel Cleanup	Solid	3546	
720-51516-7	EX1-S4(3.0)	Silica Gel Cleanup	Solid	3546	
720-51516-8	EX3-B1(8.0)	Silica Gel Cleanup	Solid	3546	
720-51516-9	EX3-S1(4.0)	Silica Gel Cleanup	Solid	3546	
720-51516-10	EX3-S2(4.5)	Silica Gel Cleanup	Solid	3546	
720-51516-11	EX3-S3(4.5)	Silica Gel Cleanup	Solid	3546	
720-51516-12	EX3-S4(3.5)	Silica Gel Cleanup	Solid	3546	
720-51516-13	EX2-B1(6.0)	Silica Gel Cleanup	Solid	3546	
720-51516-14	EX2-S1(3.5)	Silica Gel Cleanup	Solid	3546	
720-51516-15	EX2-S2(3.5)	Silica Gel Cleanup	Solid	3546	
LCS 720-141868/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-141868/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-141868/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

GC Semi VOA (Continued)

Analysis Batch: 141889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-141902/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	141902
LCSD 720-141902/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	141902
MB 720-141902/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	141902

Analysis Batch: 141890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-17	EX2-S4(3.0)	Silica Gel Cleanup	Solid	8015B	141902

Analysis Batch: 141891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-3	EX1-B1(6.0)	Silica Gel Cleanup	Solid	8015B	141868
720-51516-4	EX1-S1(3.0)	Silica Gel Cleanup	Solid	8015B	141868
720-51516-6	EX1-S3(3.0)	Silica Gel Cleanup	Solid	8015B	141868
720-51516-8	EX3-B1(8.0)	Silica Gel Cleanup	Solid	8015B	141868
720-51516-11	EX3-S3(4.5)	Silica Gel Cleanup	Solid	8015B	141868
720-51516-12	EX3-S4(3.5)	Silica Gel Cleanup	Solid	8015B	141868
720-51516-13	EX2-B1(6.0)	Silica Gel Cleanup	Solid	8015B	141868
720-51516-14	EX2-S1(3.5)	Silica Gel Cleanup	Solid	8015B	141868
720-51516-15	EX2-S2(3.5)	Silica Gel Cleanup	Solid	8015B	141868
720-51516-16	EX2-S3(3.0)	Silica Gel Cleanup	Solid	8015B	141902

Analysis Batch: 141892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-9	EX3-S1(4.0)	Silica Gel Cleanup	Solid	8015B	141868
720-51516-10	EX3-S2(4.5)	Silica Gel Cleanup	Solid	8015B	141868
LCS 720-141868/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	141868
LCSD 720-141868/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	141868
MB 720-141868/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	141868

Prep Batch: 141902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-16	EX2-S3(3.0)	Silica Gel Cleanup	Solid	3546	
720-51516-17	EX2-S4(3.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-141902/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-141902/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-141902/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 141959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-5	EX1-S2(3.0)	Silica Gel Cleanup	Solid	8015B	141868

Analysis Batch: 142015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-7	EX1-S4(3.0)	Silica Gel Cleanup	Solid	8015B	141868

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX1-B1(6.0)

Lab Sample ID: 720-51516-3

Date Collected: 08/08/13 11:20

Matrix: Solid

Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141868	08/08/13 19:35	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141891	08/09/13 14:49	DCH	TAL PLS

Client Sample ID: EX1-S1(3.0)

Lab Sample ID: 720-51516-4

Date Collected: 08/08/13 11:24

Matrix: Solid

Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141868	08/08/13 19:35	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141891	08/09/13 18:31	DCH	TAL PLS

Client Sample ID: EX1-S2(3.0)

Lab Sample ID: 720-51516-5

Date Collected: 08/08/13 11:22

Matrix: Solid

Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141866	08/08/13 19:18	DBT	TAL PLS
Total/NA	Analysis	8270C SIM		2	141906	08/09/13 16:25	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			141868	08/08/13 19:35	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141959	08/10/13 19:30	DCH	TAL PLS

Client Sample ID: EX1-S3(3.0)

Lab Sample ID: 720-51516-6

Date Collected: 08/08/13 11:26

Matrix: Solid

Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141868	08/08/13 19:35	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141891	08/09/13 15:15	DCH	TAL PLS

Client Sample ID: EX1-S4(3.0)

Lab Sample ID: 720-51516-7

Date Collected: 08/08/13 11:28

Matrix: Solid

Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141866	08/08/13 19:18	DBT	TAL PLS
Total/NA	Analysis	8270C SIM		1	141906	08/09/13 16:48	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			141868	08/08/13 19:35	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142015	08/12/13 10:30	DCH	TAL PLS

Client Sample ID: EX3-B1(8.0) — **Lab Sample ID: 720-51516-8**
Date Collected: 08/08/13 10:28 — **Matrix: Solid**
Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141868	08/08/13 19:35	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141891	08/09/13 15:40	DCH	TAL PLS

Client Sample ID: EX3-S1(4.0) — **Lab Sample ID: 720-51516-9**
Date Collected: 08/08/13 10:31 — **Matrix: Solid**
Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141866	08/08/13 19:18	DBT	TAL PLS
Total/NA	Analysis	8270C SIM		20	142001	08/11/13 17:20	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			141868	08/08/13 19:35	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		50	141892	08/09/13 16:04	DCH	TAL PLS

Client Sample ID: EX3-S2(4.5) — **Lab Sample ID: 720-51516-10**
Date Collected: 08/08/13 10:34 — **Matrix: Solid**
Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141868	08/08/13 19:35	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141892	08/09/13 14:49	DCH	TAL PLS

Client Sample ID: EX3-S3(4.5) — **Lab Sample ID: 720-51516-11**
Date Collected: 08/08/13 10:33 — **Matrix: Solid**
Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141868	08/08/13 19:35	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141891	08/09/13 16:04	DCH	TAL PLS

Client Sample ID: EX3-S4(3.5) — **Lab Sample ID: 720-51516-12**
Date Collected: 08/08/13 10:30 — **Matrix: Solid**
Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141866	08/08/13 19:18	DBT	TAL PLS
Total/NA	Analysis	8270C SIM		1	141906	08/09/13 15:15	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			141868	08/08/13 19:35	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141891	08/09/13 16:29	DCH	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Client Sample ID: EX2-B1(6.0)

Lab Sample ID: 720-51516-13

Date Collected: 08/08/13 12:49
Date Received: 08/08/13 16:40

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141868	08/08/13 19:35	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141891	08/09/13 16:53	DCH	TAL PLS

Client Sample ID: EX2-S1(3.5)

Lab Sample ID: 720-51516-14

Date Collected: 08/08/13 12:51
Date Received: 08/08/13 16:40

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141868	08/08/13 19:35	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141891	08/09/13 17:18	DCH	TAL PLS

Client Sample ID: EX2-S2(3.5)

Lab Sample ID: 720-51516-15

Date Collected: 08/08/13 12:55
Date Received: 08/08/13 16:40

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141866	08/08/13 19:18	DBT	TAL PLS
Total/NA	Analysis	8270C SIM		1	141906	08/09/13 17:34	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			141868	08/08/13 19:35	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141891	08/09/13 17:42	DCH	TAL PLS

Client Sample ID: EX2-S3(3.0)

Lab Sample ID: 720-51516-16

Date Collected: 08/08/13 12:53
Date Received: 08/08/13 16:40

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141902	08/09/13 11:13	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141891	08/10/13 00:44	DCH	TAL PLS

Client Sample ID: EX2-S4(3.0)

Lab Sample ID: 720-51516-17

Date Collected: 08/08/13 12:57
Date Received: 08/08/13 16:40

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141866	08/08/13 19:18	DBT	TAL PLS
Total/NA	Analysis	8270C SIM		5	141906	08/09/13 17:57	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			141902	08/09/13 11:13	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	141890	08/09/13 22:56	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51516-3	EX1-B1(6.0)	Solid	08/08/13 11:20	08/08/13 16:40
720-51516-4	EX1-S1(3.0)	Solid	08/08/13 11:24	08/08/13 16:40
720-51516-5	EX1-S2(3.0)	Solid	08/08/13 11:22	08/08/13 16:40
720-51516-6	EX1-S3(3.0)	Solid	08/08/13 11:26	08/08/13 16:40
720-51516-7	EX1-S4(3.0)	Solid	08/08/13 11:28	08/08/13 16:40
720-51516-8	EX3-B1(8.0)	Solid	08/08/13 10:28	08/08/13 16:40
720-51516-9	EX3-S1(4.0)	Solid	08/08/13 10:31	08/08/13 16:40
720-51516-10	EX3-S2(4.5)	Solid	08/08/13 10:34	08/08/13 16:40
720-51516-11	EX3-S3(4.5)	Solid	08/08/13 10:33	08/08/13 16:40
720-51516-12	EX3-S4(3.5)	Solid	08/08/13 10:30	08/08/13 16:40
720-51516-13	EX2-B1(6.0)	Solid	08/08/13 12:49	08/08/13 16:40
720-51516-14	EX2-S1(3.5)	Solid	08/08/13 12:51	08/08/13 16:40
720-51516-15	EX2-S2(3.5)	Solid	08/08/13 12:55	08/08/13 16:40
720-51516-16	EX2-S3(3.0)	Solid	08/08/13 12:53	08/08/13 16:40
720-51516-17	EX2-S4(3.0)	Solid	08/08/13 12:57	08/08/13 16:40

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-51516

Reference #: 147798

Date 8/8/13 Page 1 of 2

Report To

Attn: KRISTIN GUTHRIE
Company: Haley & Aldrich Inc
Address: 2033 N Main St, Walnut Creek
Email: KGUTHRIE@haleyaldrich.com
Bill To: 39792
Sampled By: J Sebik
Attn:
Phone: 925-357-7355

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS)	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	24 HR	48HR	Number of Containers
CF5-B1(0.2)	8/8/13	0940	S	ice				X		X													X	1
CF6-B1(0.5)		0942						X		X													X	1
EX1-B1(6.0)		1120						X														X		1
EX1-S1(3.0)		1124						X														X		1
EX1-S2(3.0)		1122						X		X												X		1
EX1-S3(3.0)		1126						X														X		1
EX1-S4(3.0)		1128						X		X												X		1
EX3-B1(8.0)		1028						X														X		1
EX3-S1(4.0)		1031						X		X												X		1
EX3-S2(4.5)		1034						X														X		1

RUSH

Project Info

Project Name/ #: Former Hanson Aggregate Facility
PO#: 39792
Credit Card Y/N:
If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 3°C

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other: EX1,2,3

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID
8270C SIM => Napthalene ONLY

See Terms and Conditions on reverse

1) Relinquished by:
Signature: [illegible] Time: 1640
Printed Name: JOANNA S[illegible] Date: 8/8/13
Company: H&A

2) Relinquished by:
Signature:
Printed Name:
Company:

720-51516 Chain of Custody

3) Relinquished by:
Signature: Time:
Printed Name: Date:
Company:

1) Received by:
Signature: [illegible] Time: 1640
Printed Name: [illegible] Date: 8-8-13
Company: TestAmerica

2) Received by:
Signature: Time:
Printed Name: Date:
Company:

3) Received by:
Signature: Time:
Printed Name: Date:
Company:

Rev.10/2012

8/12/2013

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-51516

Reference #: 447798

Date 8/8/13 Page 2 of 3

Report To

Attn. KRISTIN GUTHRIE
Company Haley & Aldrich
Address 2033 N Main St, Walnut Creek CA
Email: KGUTHRIE@haleyaldrich.com
Bill To. H&A
Sampled By: JSebik
Attn:
Phone 925-357-7355

Analysis Request

Sample ID	Date	Time	Mat'l Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNAPAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other ___	Metals. ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ WET (STLC) ☐ WET (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	24Hr	48Hr	Number of Containers
EX3-S3 (4.5)	8/8/13	1033	S	ice				X																X	1
EX3-S4 (3.5)	8/8/13	1030	S	ice				X		X															1
EX2-S1 (6.0)		1249						X																	1
EX2-S1 (3.5)		1251						X																	1
EX2-S2 (3.5)		1255						X		X															1
EX2-S3 (3.0)		1253						X																	1
EX2-S4 (3.0)		1257						X		X															1
EX5-S1 (5.0)		1410						X																X	1
EX5-S1 (4.5)		1420						X		X														X	1
EX5-S2 (2.75)		1403						X																X	1

RUSH

Page 37 of 136

Project Info

Project Name/ #: Former Hanson Aggregate Facility
PO# 39792
Credit Card Y/N:

Sample Receipt

of Containers:
Head Space:
Temp: 3°C
If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | 3 Day | (2 Day) | (1 Day) | Other:

EX1,2,3

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___

naphthalene ONLY on 8270C SIM

8/12/2013

See Terms and Conditions on reverse

1) Relinquished by: [signature] 1640
Signature Time
JOANNA SEBIK 8/8/13
Printed Name Date
H&A
Company

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by:
Signature Time
Printed Name Date
Company

1) Received by. [signature] 1640
Signature Time
Mullen 8-8-13
Printed Name Date
[signature]
Company

2) Received by
Signature Time
Printed Name Date
Company

3) Received by:
Signature Time
Printed Name Date
Company

Rev.10/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-0002

Reference #: 147798

720-51516

Date 8/8/13 Page 3 of 3

Report To

Attn: KRISTIN GUTHRIE
Company Haley & Aldrich
Address: 2033 N Main St, Walnut Creek CA
Email: KGUTHRIE@haleyaldrich.com
Bill To: H&A
Sampled By: J Sebik
Attn:
Phone 925-357-7355

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☒ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other. ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS) ___	☐ WET (STLC) ☐ WET (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD* ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	24 Hr	48 Hr	Number of Containers
EX5-S3(3.0)	8/8/13	1408	S	ice				X		X														X	1
EX5-S4(3.0)		1413						X																X	1
EX6-B1(6.0)		1448						X																X	1
EX6-S1(3.0)		1430						X																X	1
EX6-S2(3.0)		1437						X		X														X	1
EX6-S3(3.0)		1436						X																X	1
EX6-S4(3.0)		1434						X																X	1
EX6-S5(3.0)		1432						X		X														X	1

RUSH

(S3)
(S2)

Project Info

Project Name/ #: Former Hanson Aggregate Facility
PO#: 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 3°C

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other: EX1,2,3

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
naphthalene ONLY on 8270C SIM

8/12/2013

See Terms and Conditions on reverse

1) Relinquished by: Signature — Time 1640
Printed Name JOANNA SEBIK — Date 8/8/13
Company H&A

2) Relinquished by: Signature — Time
Printed Name — Date
Company

3) Relinquished by: Signature — Time
Printed Name — Date
Company

1) Received by: Signature — Time 1640
Printed Name — Date 8-8-13
Company

2) Received by: Signature — Time
Printed Name — Date
Company

3) Received by: Signature — Time
Printed Name — Date
Company

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51516-1

Login Number: 51516

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51516-2
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
8/12/2013 5:14:41 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51516-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51516-2

Comments
No additional comments.

Receipt
The samples were received on 8/8/2013 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0º C.

GC/MS Semi VOA
Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: EX5-S3(3.0) (720-51516-21), EX6-S5(3.0) (720-51516-28). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Capric acid surrogate recovery for the following sample was outside control limits: EX6-S2(3.0) (720-51516-25). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: (720-51516-2 MS), (720-51516-2 MSD), EX6-S1(3.0) (720-51516-24), EX6-S3(3.0) (720-51516-26), EX6-S5(3.0) (720-51516-28).

Method 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for batch 141868 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Client Sample ID: CF5-B1(0.2) — Lab Sample ID: 720-51516-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	7.6		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CF6-B1(0.5) — Lab Sample ID: 720-51516-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	35		25		ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	120		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	250		99		mg/Kg	2		8015B	Silica Gel Cleanup

Client Sample ID: EX5-B1(5.0) — Lab Sample ID: 720-51516-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	58		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	130		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX5-S1(4.5) — Lab Sample ID: 720-51516-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	150		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	400		150		mg/Kg	3		8015B	Silica Gel Cleanup

Client Sample ID: EX5-S2(2.75) — Lab Sample ID: 720-51516-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	280		2.0		mg/Kg	2		8015B	Silica Gel Cleanup

Client Sample ID: EX5-S3(3.0) — Lab Sample ID: 720-51516-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	13		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	56		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX5-S4(3.0) — Lab Sample ID: 720-51516-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	100		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	150		100		mg/Kg	2		8015B	Silica Gel Cleanup

Client Sample ID: EX6-B1(6.0) — Lab Sample ID: 720-51516-23

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Client Sample ID: EX6-S1(3.0) — Lab Sample ID: 720-51516-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	570		25		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	2200		1200		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: EX6-S2(3.0) — Lab Sample ID: 720-51516-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	150		25		ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	80		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	89		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX6-S3(3.0) — Lab Sample ID: 720-51516-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	660		25		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	3800		1200		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: EX6-S4(3.0) — Lab Sample ID: 720-51516-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2600		50		mg/Kg	50		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	6300		2500		mg/Kg	50		8015B	Silica Gel Cleanup

Client Sample ID: EX6-S5(3.0) — Lab Sample ID: 720-51516-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1400		50		mg/Kg	50		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	3400		2500		mg/Kg	50		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Client Sample ID: CF5-B1(0.2)
Date Collected: 08/08/13 09:40
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-1
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		08/09/13 10:41	08/09/13 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*33 - 120*	*08/09/13 10:41*	*08/09/13 18:04*	*1*
Terphenyl-d14	*88*		*35 - 146*	*08/09/13 10:41*	*08/09/13 18:04*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**7.6**		1.0		mg/Kg		08/08/13 19:35	08/09/13 18:07	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/08/13 19:35	08/09/13 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 1*	*08/08/13 19:35*	*08/09/13 18:07*	*1*
p-Terphenyl	*75*		*38 - 148*	*08/08/13 19:35*	*08/09/13 18:07*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Client Sample ID: CF6-B1(0.5)
Date Collected: 08/08/13 09:42
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-2
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	35		25		ug/Kg		08/09/13 10:41	08/09/13 18:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*33 - 120*	*08/09/13 10:41*	*08/09/13 18:25*	*5*
Terphenyl-d14	*90*		*35 - 146*	*08/09/13 10:41*	*08/09/13 18:25*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	120		2.0		mg/Kg		08/08/13 19:35	08/10/13 19:59	2
Motor Oil Range Organics [C24-C36]	250		99		mg/Kg		08/08/13 19:35	08/10/13 19:59	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/08/13 19:35*	*08/10/13 19:59*	*2*
p-Terphenyl	*51*		*38 - 148*	*08/08/13 19:35*	*08/10/13 19:59*	*2*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Client Sample ID: EX5-B1(5.0)
Date Collected: 08/08/13 14:10
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-18
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	58		1.0		mg/Kg		08/09/13 11:13	08/10/13 01:57	1
Motor Oil Range Organics [C24-C36]	130		50		mg/Kg		08/09/13 11:13	08/10/13 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.3*		*0 - 1*	*08/09/13 11:13*	*08/10/13 01:57*	*1*
p-Terphenyl	*79*		*38 - 148*	*08/09/13 11:13*	*08/10/13 01:57*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Client Sample ID: EX5-S1(4.5)
Date Collected: 08/08/13 14:20
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-19
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	150		3.0		mg/Kg		08/09/13 11:13	08/10/13 13:35	3
Motor Oil Range Organics [C24-C36]	400		150		mg/Kg		08/09/13 11:13	08/10/13 13:35	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.8*		*0 - 1*	*08/09/13 11:13*	*08/10/13 13:35*	*3*
p-Terphenyl	*53*		*38 - 148*	*08/09/13 11:13*	*08/10/13 13:35*	*3*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Client Sample ID: EX5-S2(2.75)
Date Collected: 08/08/13 14:03
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-20
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**280**		2.0		mg/Kg		08/09/13 11:13	08/10/13 13:35	2
Motor Oil Range Organics [C24-C36]	ND		100		mg/Kg		08/09/13 11:13	08/10/13 13:35	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/09/13 11:13*	*08/10/13 13:35*	*2*
p-Terphenyl	*70*		*38 - 148*	*08/09/13 11:13*	*08/10/13 13:35*	*2*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Client Sample ID: EX5-S3(3.0)
Date Collected: 08/08/13 14:08
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-21
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10		ug/Kg		08/09/13 10:41	08/09/13 18:45	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*92*		*33 - 120*	*08/09/13 10:41*	*08/09/13 18:45*	*2*
Terphenyl-d14	*94*		*35 - 146*	*08/09/13 10:41*	*08/09/13 18:45*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**13**		1.0		mg/Kg		08/09/13 10:34	08/10/13 01:33	1
Motor Oil Range Organics [C24-C36]	**56**		50		mg/Kg		08/09/13 10:34	08/10/13 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.1*		*0 - 1*	*08/09/13 10:34*	*08/10/13 01:33*	*1*
p-Terphenyl	*98*		*38 - 148*	*08/09/13 10:34*	*08/10/13 01:33*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Client Sample ID: EX5-S4(3.0)
Date Collected: 08/08/13 14:13
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-22
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	100		2.0		mg/Kg		08/09/13 10:34	08/10/13 13:05	2
Motor Oil Range Organics [C24-C36]	150		100		mg/Kg		08/09/13 10:34	08/10/13 13:05	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.4*		*0 - 1*	*08/09/13 10:34*	*08/10/13 13:05*	*2*
p-Terphenyl	*85*		*38 - 148*	*08/09/13 10:34*	*08/10/13 13:05*	*2*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Client Sample ID: EX6-B1(6.0)
Date Collected: 08/08/13 14:48
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-23
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/09/13 10:34	08/10/13 02:51	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/09/13 10:34	08/10/13 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/09/13 10:34*	*08/10/13 02:51*	*1*
p-Terphenyl	*102*		*38 - 148*	*08/09/13 10:34*	*08/10/13 02:51*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Client Sample ID: EX6-S1(3.0)
Date Collected: 08/08/13 14:30
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-24
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	570		25		mg/Kg		08/09/13 10:34	08/10/13 15:04	10
Motor Oil Range Organics [C24-C36]	2200		1200		mg/Kg		08/09/13 10:34	08/10/13 15:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/09/13 10:34*	*08/10/13 15:04*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/09/13 10:34*	*08/10/13 15:04*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Client Sample ID: EX6-S2(3.0)
Date Collected: 08/08/13 14:37
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-25
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	150		25		ug/Kg		08/09/13 10:41	08/09/13 19:06	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*33 - 120*	*08/09/13 10:41*	*08/09/13 19:06*	*5*
Terphenyl-d14	*84*		*35 - 146*	*08/09/13 10:41*	*08/09/13 19:06*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	80		1.0		mg/Kg		08/09/13 10:34	08/10/13 02:22	1
Motor Oil Range Organics [C24-C36]	89		50		mg/Kg		08/09/13 10:34	08/10/13 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*12*	*X*	*0 - 1*	*08/09/13 10:34*	*08/10/13 02:22*	*1*
p-Terphenyl	*85*		*38 - 148*	*08/09/13 10:34*	*08/10/13 02:22*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Client Sample ID: EX6-S3(3.0)
Date Collected: 08/08/13 14:36
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-26
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	660		25		mg/Kg		08/09/13 10:34	08/10/13 16:03	10
Motor Oil Range Organics [C24-C36]	3800		1200		mg/Kg		08/09/13 10:34	08/10/13 16:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/09/13 10:34*	*08/10/13 16:03*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/09/13 10:34*	*08/10/13 16:03*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Client Sample ID: EX6-S4(3.0)
Date Collected: 08/08/13 14:34
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-27
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2600		50		mg/Kg		08/09/13 10:34	08/09/13 23:25	50
Motor Oil Range Organics [C24-C36]	6300		2500		mg/Kg		08/09/13 10:34	08/09/13 23:25	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/09/13 10:34*	*08/09/13 23:25*	*50*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/09/13 10:34*	*08/09/13 23:25*	*50*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Client Sample ID: EX6-S5(3.0)
Date Collected: 08/08/13 14:32
Date Received: 08/08/13 16:40

Lab Sample ID: 720-51516-28
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		500		ug/Kg		08/09/13 10:41	08/11/13 17:40	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*33 - 120*	*08/09/13 10:41*	*08/11/13 17:40*	*50*
Terphenyl-d14	*98*		*35 - 146*	*08/09/13 10:41*	*08/11/13 17:40*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1400**		50		mg/Kg		08/09/13 10:34	08/10/13 14:34	50
Motor Oil Range Organics [C24-C36]	**3400**		2500		mg/Kg		08/09/13 10:34	08/10/13 14:34	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/09/13 10:34*	*08/10/13 14:34*	*50*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/09/13 10:34*	*08/10/13 14:34*	*50*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-141903/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141907 — **Prep Batch: 141903**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		08/09/13 10:41	08/09/13 17:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*33 - 120*	*08/09/13 10:41*	*08/09/13 17:02*	*1*
Terphenyl-d14	*99*		*35 - 146*	*08/09/13 10:41*	*08/09/13 17:02*	*1*

Lab Sample ID: LCS 720-141903/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141907 — **Prep Batch: 141903**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			332	184		ug/Kg		55	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*67*		*33 - 120*
Terphenyl-d14	*98*		*35 - 146*

Lab Sample ID: LCSD 720-141903/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141907 — **Prep Batch: 141903**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			333	187		ug/Kg		56	46 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*33 - 120*
Terphenyl-d14	*99*		*35 - 146*

Lab Sample ID: 720-51516-1 MS — **Client Sample ID: CF5-B1(0.2)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141907 — **Prep Batch: 141903**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene	ND		333	155		ug/Kg		46	32 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*62*		*33 - 120*
Terphenyl-d14	*89*		*35 - 146*

Lab Sample ID: 720-51516-1 MSD — **Client Sample ID: CF5-B1(0.2)**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141907 — **Prep Batch: 141903**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		333	184		ug/Kg		55	32 - 120	17	20

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: 720-51516-1 MSD
Matrix: Solid
Analysis Batch: 141907

Client Sample ID: CF5-B1(0.2)
Prep Type: Total/NA
Prep Batch: 141903

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	73		33 - 120
Terphenyl-d14	100		35 - 146

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-141868/1-A
Matrix: Solid
Analysis Batch: 141892

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 141868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/08/13 19:35	08/09/13 22:43	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/08/13 19:35	08/09/13 22:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1	08/08/13 19:35	08/09/13 22:43	1
p-Terphenyl	91		38 - 148	08/08/13 19:35	08/09/13 22:43	1

Lab Sample ID: LCS 720-141868/2-A
Matrix: Solid
Analysis Batch: 141892

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 141868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.0	51.9		mg/Kg		63	36 - 112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	103		38 - 148

Lab Sample ID: LCSD 720-141868/3-A
Matrix: Solid
Analysis Batch: 141892

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 141868

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	82.6	52.1		mg/Kg		63	36 - 112	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	100		38 - 148

Lab Sample ID: 720-51516-2 MS
Matrix: Solid
Analysis Batch: 141892

Client Sample ID: CF6-B1(0.5)
Prep Type: Silica Gel Cleanup
Prep Batch: 141868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	120		82.5	154	F	mg/Kg		40	50 - 150

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-51516-2 MS
Matrix: Solid
Analysis Batch: 141892

Client Sample ID: CF6-B1(0.5)
Prep Type: Silica Gel Cleanup
Prep Batch: 141868

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	*0*	*X D*	*38 - 148*

Lab Sample ID: 720-51516-2 MSD
Matrix: Solid
Analysis Batch: 141892

Client Sample ID: CF6-B1(0.5)
Prep Type: Silica Gel Cleanup
Prep Batch: 141868

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	120		82.3	122	F	mg/Kg		0.9	50 - 150	23	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	*0*	*X D*	*38 - 148*

Lab Sample ID: MB 720-141902/1-A
Matrix: Solid
Analysis Batch: 141889

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 141902

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/09/13 10:34	08/10/13 04:18	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/09/13 10:34	08/10/13 04:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	*0*		*0 - 1*	*08/09/13 10:34*	*08/10/13 04:18*	*1*
p-Terphenyl	*106*		*38 - 148*	*08/09/13 10:34*	*08/10/13 04:18*	*1*

Lab Sample ID: LCS 720-141902/2-A
Matrix: Solid
Analysis Batch: 141889

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 141902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.3	62.1		mg/Kg		74	36 - 112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*107*		*38 - 148*

Lab Sample ID: LCSD 720-141902/3-A
Matrix: Solid
Analysis Batch: 141889

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 141902

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	83.3	60.6		mg/Kg		73	36 - 112	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	*109*		*38 - 148*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-51516-22 MS
Matrix: Solid
Analysis Batch: 141889

Client Sample ID: EX5-S4(3.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 141902

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	100		83.1	185		mg/Kg		97	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*38 - 148*

Lab Sample ID: 720-51516-22 MSD
Matrix: Solid
Analysis Batch: 141889

Client Sample ID: EX5-S4(3.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 141902

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	100		83.2	181		mg/Kg		91	50 - 150	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*38 - 148*

GC/MS Semi VOA

Prep Batch: 141903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-1	CF5-B1(0.2)	Total/NA	Solid	3546	
720-51516-1 MS	CF5-B1(0.2)	Total/NA	Solid	3546	
720-51516-1 MSD	CF5-B1(0.2)	Total/NA	Solid	3546	
720-51516-2	CF6-B1(0.5)	Total/NA	Solid	3546	
720-51516-21	EX5-S3(3.0)	Total/NA	Solid	3546	
720-51516-25	EX6-S2(3.0)	Total/NA	Solid	3546	
720-51516-28	EX6-S5(3.0)	Total/NA	Solid	3546	
LCS 720-141903/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-141903/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-141903/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 141907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-1	CF5-B1(0.2)	Total/NA	Solid	8270C SIM	141903
720-51516-1 MS	CF5-B1(0.2)	Total/NA	Solid	8270C SIM	141903
720-51516-1 MSD	CF5-B1(0.2)	Total/NA	Solid	8270C SIM	141903
720-51516-2	CF6-B1(0.5)	Total/NA	Solid	8270C SIM	141903
720-51516-21	EX5-S3(3.0)	Total/NA	Solid	8270C SIM	141903
720-51516-25	EX6-S2(3.0)	Total/NA	Solid	8270C SIM	141903
LCS 720-141903/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	141903
LCSD 720-141903/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	141903
MB 720-141903/1-A	Method Blank	Total/NA	Solid	8270C SIM	141903

Analysis Batch: 142001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-28	EX6-S5(3.0)	Total/NA	Solid	8270C SIM	141903

GC Semi VOA

Prep Batch: 141868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-1	CF5-B1(0.2)	Silica Gel Cleanup	Solid	3546	
720-51516-2	CF6-B1(0.5)	Silica Gel Cleanup	Solid	3546	
720-51516-2 MS	CF6-B1(0.5)	Silica Gel Cleanup	Solid	3546	
720-51516-2 MSD	CF6-B1(0.5)	Silica Gel Cleanup	Solid	3546	
LCS 720-141868/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-141868/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-141868/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 141889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-22 MS	EX5-S4(3.0)	Silica Gel Cleanup	Solid	8015B	141902
720-51516-22 MSD	EX5-S4(3.0)	Silica Gel Cleanup	Solid	8015B	141902
720-51516-23	EX6-B1(6.0)	Silica Gel Cleanup	Solid	8015B	141902
LCS 720-141902/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	141902
LCSD 720-141902/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	141902
MB 720-141902/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	141902

GC Semi VOA (Continued)

Analysis Batch: 141890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-27	EX6-S4(3.0)	Silica Gel Cleanup	Solid	8015B	141902

Analysis Batch: 141891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-1	CF5-B1(0.2)	Silica Gel Cleanup	Solid	8015B	141868
720-51516-18	EX5-B1(5.0)	Silica Gel Cleanup	Solid	8015B	141902
720-51516-21	EX5-S3(3.0)	Silica Gel Cleanup	Solid	8015B	141902
720-51516-25	EX6-S2(3.0)	Silica Gel Cleanup	Solid	8015B	141902

Analysis Batch: 141892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-2 MS	CF6-B1(0.5)	Silica Gel Cleanup	Solid	8015B	141868
720-51516-2 MSD	CF6-B1(0.5)	Silica Gel Cleanup	Solid	8015B	141868
LCS 720-141868/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	141868
LCSD 720-141868/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	141868
MB 720-141868/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	141868

Prep Batch: 141902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-18	EX5-B1(5.0)	Silica Gel Cleanup	Solid	3546	
720-51516-19	EX5-S1(4.5)	Silica Gel Cleanup	Solid	3546	
720-51516-20	EX5-S2(2.75)	Silica Gel Cleanup	Solid	3546	
720-51516-21	EX5-S3(3.0)	Silica Gel Cleanup	Solid	3546	
720-51516-22	EX5-S4(3.0)	Silica Gel Cleanup	Solid	3546	
720-51516-22 MS	EX5-S4(3.0)	Silica Gel Cleanup	Solid	3546	
720-51516-22 MSD	EX5-S4(3.0)	Silica Gel Cleanup	Solid	3546	
720-51516-23	EX6-B1(6.0)	Silica Gel Cleanup	Solid	3546	
720-51516-24	EX6-S1(3.0)	Silica Gel Cleanup	Solid	3546	
720-51516-25	EX6-S2(3.0)	Silica Gel Cleanup	Solid	3546	
720-51516-26	EX6-S3(3.0)	Silica Gel Cleanup	Solid	3546	
720-51516-27	EX6-S4(3.0)	Silica Gel Cleanup	Solid	3546	
720-51516-28	EX6-S5(3.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-141902/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-141902/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-141902/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 141959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-2	CF6-B1(0.5)	Silica Gel Cleanup	Solid	8015B	141868
720-51516-19	EX5-S1(4.5)	Silica Gel Cleanup	Solid	8015B	141902
720-51516-22	EX5-S4(3.0)	Silica Gel Cleanup	Solid	8015B	141902
720-51516-24	EX6-S1(3.0)	Silica Gel Cleanup	Solid	8015B	141902
720-51516-26	EX6-S3(3.0)	Silica Gel Cleanup	Solid	8015B	141902
720-51516-28	EX6-S5(3.0)	Silica Gel Cleanup	Solid	8015B	141902

Analysis Batch: 141960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51516-20	EX5-S2(2.75)	Silica Gel Cleanup	Solid	8015B	141902

Client Sample ID: CF5-B1(0.2)

Lab Sample ID: 720-51516-1

Date Collected: 08/08/13 09:40

Matrix: Solid

Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141903	08/09/13 10:41	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		1	141907	08/09/13 18:04	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			141868	08/08/13 19:35	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141891	08/09/13 18:07	DCH	TAL PLS

Client Sample ID: CF6-B1(0.5)

Lab Sample ID: 720-51516-2

Date Collected: 08/08/13 09:42

Matrix: Solid

Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141903	08/09/13 10:41	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		5	141907	08/09/13 18:25	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			141868	08/08/13 19:35	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	141959	08/10/13 19:59	DCH	TAL PLS

Client Sample ID: EX5-B1(5.0)

Lab Sample ID: 720-51516-18

Date Collected: 08/08/13 14:10

Matrix: Solid

Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141902	08/09/13 11:13	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141891	08/10/13 01:57	DCH	TAL PLS

Client Sample ID: EX5-S1(4.5)

Lab Sample ID: 720-51516-19

Date Collected: 08/08/13 14:20

Matrix: Solid

Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141902	08/09/13 11:13	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	141959	08/10/13 13:35	DCH	TAL PLS

Client Sample ID: EX5-S2(2.75)

Lab Sample ID: 720-51516-20

Date Collected: 08/08/13 14:03

Matrix: Solid

Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141902	08/09/13 11:13	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	141960	08/10/13 13:35	DCH	TAL PLS

Client Sample ID: EX5-S3(3.0) — **Lab Sample ID: 720-51516-21**
Date Collected: 08/08/13 14:08 — **Matrix: Solid**
Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141903	08/09/13 10:41	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		2	141907	08/09/13 18:45	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			141902	08/09/13 10:34	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141891	08/10/13 01:33	DCH	TAL PLS

Client Sample ID: EX5-S4(3.0) — **Lab Sample ID: 720-51516-22**
Date Collected: 08/08/13 14:13 — **Matrix: Solid**
Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141902	08/09/13 10:34	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	141959	08/10/13 13:05	DCH	TAL PLS

Client Sample ID: EX6-B1(6.0) — **Lab Sample ID: 720-51516-23**
Date Collected: 08/08/13 14:48 — **Matrix: Solid**
Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141902	08/09/13 10:34	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141889	08/10/13 02:51	DCH	TAL PLS

Client Sample ID: EX6-S1(3.0) — **Lab Sample ID: 720-51516-24**
Date Collected: 08/08/13 14:30 — **Matrix: Solid**
Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141902	08/09/13 10:34	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	141959	08/10/13 15:04	DCH	TAL PLS

Client Sample ID: EX6-S2(3.0) — **Lab Sample ID: 720-51516-25**
Date Collected: 08/08/13 14:37 — **Matrix: Solid**
Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141903	08/09/13 10:41	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		5	141907	08/09/13 19:06	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			141902	08/09/13 10:34	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141891	08/10/13 02:22	DCH	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Client Sample ID: EX6-S3(3.0)

Lab Sample ID: 720-51516-26

Date Collected: 08/08/13 14:36

Matrix: Solid

Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141902	08/09/13 10:34	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	141959	08/10/13 16:03	DCH	TAL PLS

Client Sample ID: EX6-S4(3.0)

Lab Sample ID: 720-51516-27

Date Collected: 08/08/13 14:34

Matrix: Solid

Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141902	08/09/13 10:34	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		50	141890	08/09/13 23:25	DCH	TAL PLS

Client Sample ID: EX6-S5(3.0)

Lab Sample ID: 720-51516-28

Date Collected: 08/08/13 14:32

Matrix: Solid

Date Received: 08/08/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141903	08/09/13 10:41	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		50	142001	08/11/13 17:40	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			141902	08/09/13 10:34	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		50	141959	08/10/13 14:34	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51516-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51516-1	CF5-B1(0.2)	Solid	08/08/13 09:40	08/08/13 16:40
720-51516-2	CF6-B1(0.5)	Solid	08/08/13 09:42	08/08/13 16:40
720-51516-18	EX5-B1(5.0)	Solid	08/08/13 14:10	08/08/13 16:40
720-51516-19	EX5-S1(4.5)	Solid	08/08/13 14:20	08/08/13 16:40
720-51516-20	EX5-S2(2.75)	Solid	08/08/13 14:03	08/08/13 16:40
720-51516-21	EX5-S3(3.0)	Solid	08/08/13 14:08	08/08/13 16:40
720-51516-22	EX5-S4(3.0)	Solid	08/08/13 14:13	08/08/13 16:40
720-51516-23	EX6-B1(6.0)	Solid	08/08/13 14:48	08/08/13 16:40
720-51516-24	EX6-S1(3.0)	Solid	08/08/13 14:30	08/08/13 16:40
720-51516-25	EX6-S2(3.0)	Solid	08/08/13 14:37	08/08/13 16:40
720-51516-26	EX6-S3(3.0)	Solid	08/08/13 14:36	08/08/13 16:40
720-51516-27	EX6-S4(3.0)	Solid	08/08/13 14:34	08/08/13 16:40
720-51516-28	EX6-S5(3.0)	Solid	08/08/13 14:32	08/08/13 16:40

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-51516

Reference #: 147798

Date 8/8/13 Page 1 of 2

Report To

Attn: KRISTIN GUTHRIE
Company: Haley & Aldrich Inc
Address: 2033 N Main St, Walnut Creek
Email: KGUTHRIE@haleyaldrich.com
Bill To: 39792
Sampled By: J Sebik
Attn:
Phone: 925-357-7355

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☒ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS) ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	24 HR	48HR	Number of Containers
CF5-B1(0.2)	8/8/13	0940	S	ice				X		X														1
CF6-B1(0.5)		0942						X		X													X	1
EX1-B1(6.0)		1120						X													X			1
EX1-S1(3.0)		1124						X													X			1
EX1-S2(3.0)		1122						X		X											X			1
EX1-S3(3.0)		1126						X													X			1
EX1-S4(3.0)		1128						X		X											X			1
EX3-B1(8.0)		1028						X													X			1
EX3-S1(4.0)		1031						X		X											X			1
EX3-S2(4.5)		1034						X													X			1

RUSH

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Project Info

Project Name/ #: Former Hanson Aggregate Facility
PO#: 39792
Credit Card Y/N:
If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 3°C

1) Relinquished by:
Signature: [signature] Time: 1640
Printed Name: JOANNA SEBIK Date: 8/8/13
Company: H&A

2) Relinquished by:
Signature:
Printed Name:
Company:

720-51516 Chain of Custody

3) Relinquished by:
Signature: Time:
Printed Name: Date:
Company:

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other: EX1,2,3

1) Received by:
Signature: [signature] Time: 1640
Printed Name: [signature] Date: 8-8-13
Company:

2) Received by:
Signature: Time:
Printed Name: Date:
Company:

3) Received by:
Signature: Time:
Printed Name: Date:
Company:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
8270C SIM => Naphthalene ONLY

8/12/2013

See Terms and Conditions on reverse

Rev.10/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-51516

Reference #: 447798

Date 8/8/13 Page 2 of 3

Report To

Attn. KRISTIN GUTHRIE
Company Haley & Aldrich
Address 2033 N Main St, Walnut Creek CA
Email: KGUTHRIE@haleyaldrich.com
Bill To. H&A
Sampled By: JSebik
Attn:
Phone 925-357-7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNAPAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other ___	Metals. ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ WET (STLC) ☐ WET (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	24Hr	48Hr	Number of Containers
EX3-S3 (4.5)	8/8/13	1033	S	ice				X																X	1
EX3-S4 (3.5)	8/8/13	1030	S	ice				X		X															1
EX2-S1 (6.0)		1249						X																	1
EX2-S1 (3.5)		1251						X																	1
EX2-S2 (3.5)		1255						X		X															1
EX2-S3 (3.0)		1253						X																	1
EX2-S4 (3.0)		1257						X		X															1
EX5-S1 (5.0)		1410						X																X	1
EX5-S1 (4.5)		1420						X		X														X	1
EX5-S2 (2.75)		1403						X																X	1

RUSH

Page 33 of 35

Project Info

Project Name/ #: Former Hanson Aggregate Facility
PO# 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 3°C

TAT: 10 Day | 5 Day | 4 Day | 3 Day | (2 Day) | (1 Day) | Other:
EX1,2,3

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
naphthalene ONLY on 8270C SIM

8/12/2013

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1640	Signature: Time:	Signature: Time:
Printed Name: JOANNA SEBIK Date: 8/8/13	Printed Name: Date:	Printed Name: Date:
Company: H&A	Company:	Company:

1) Received by:	2) Received by	3) Received by:
Signature: [signature] Time: 1640	Signature: Time:	Signature: Time:
Printed Name: Mullen Date: 8-8-13	Printed Name: Date:	Printed Name: Date:
Company: [signature]	Company:	Company:

Rev.10/2012

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TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-0002

Reference #: 147798

720-51516

Date 8/8/13 Page 3 of 3

Report To

Attn: KRISTIN GUTHRIE
Company Haley & Aldrich
Address: 2033 N Main St, Walnut Creek CA
Email: KGUTHRIE@haleyaldrich.com
Bill To: H&A
Sampled By: J Sebik
Attn:
Phone 925-357-7355

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☒ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other. ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS) ___	☐ WET (STLC) ☐ WET (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD* ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	24 Hr	48 HR	Number of Containers
EX5-S3(3.0)	8/8/13	1408	S	ice				X		X														X	1
EX5-S4(3.0)		1413						X																6	1
EX6-B1(6.0)		1448						X																6	1
EX6-S1(3.0)		1430						X																6	1
EX6-S2(3.0)		1437						X		X														6	1
EX6-S3(3.0)		1436						X																6	1
EX6-S4(3.0)		1434						X																6	1
EX6-S5(3.0)		1432						X		X														6	1

RUSH

Project Info

Project Name/ #: Former Hanson Aggregate Facility
PO#: 39792
Credit Card Y/N:

Sample Receipt

of Containers:
Head Space:
Temp: 3°C

If yes, please call with payment information ASAP

TAT: 10 Day | 5 Days | 4 Day | 3 Day | 2 Day | 1 Day | Other: EX1,2,3

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
naphthalene ONLY on 8270C SIM

8/12/2013

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1640	Signature: Time:	Signature: Time:
Printed Name: JOANNA SEBIK Date: 8/8/13	Printed Name: Date:	Printed Name: Date:
Company: H&A	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1640	Signature: Time:	Signature: Time:
Printed Name: [signature] Date: 8-8-13	Printed Name: Date:	Printed Name: Date:
Company: [signature]	Company:	Company:

Rev.10/2012

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Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51516-2

Login Number: 51516

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51565-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
8/14/2013 12:48:15 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51565-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51565-1

Comments
No additional comments.

Receipt
The samples were received on 8/9/2013 6:24 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.9º C.

Except:

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): The container labels list TS-B11(10.0) The COC lists TS-B11(3.0). Time matches. Labeled according to coc.

GC/MS Semi VOA
Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: TS-S5(4.0) (720-51565-17). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: TS-B10(10.0) (720-51565-14), TS-S5(4.0) (720-51565-17).

Method 8015B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 142010 recovered outside control limits for the following analytes: C10-C28

Method 8015B: Due to the high concentration of C10-C28 the matrix spike / matrix spike duplicate (MS/MSD) for batch 142010 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: EX5-S5(2.5) (720-51565-4), TS-B2(6.0) (720-51565-6), TS-S6(3.0) (720-51565-18), TS-S7(4.0) (720-51565-20), (720-51565-4 MS), (720-51565-4 MSD).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: EX5-S5(2.5) — Lab Sample ID: 720-51565-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	370	*	9.9		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1400		490		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: TS-B1(3.0) — Lab Sample ID: 720-51565-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	12	*	1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	60		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-B2(6.0) — Lab Sample ID: 720-51565-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	110	*	9.8		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	820		490		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: TS-B3(7.0) — Lab Sample ID: 720-51565-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.9	*	1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-B4(10.0) — Lab Sample ID: 720-51565-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	9.5	*	0.98		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-B5(10.0) — Lab Sample ID: 720-51565-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.1	*	0.98		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-B6(10.0) — Lab Sample ID: 720-51565-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.1	*	1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-B7(10.0) — Lab Sample ID: 720-51565-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	8.0	*	1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-B8(10.0) — Lab Sample ID: 720-51565-12

This Detection Summary does not include radiochemical test results.

Client Sample ID: TS-B8(10.0) (Continued) — Lab Sample ID: 720-51565-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	44	*	3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	240		150		mg/Kg	3		8015B	Silica Gel Cleanup

Client Sample ID: TS-B9(10.0) — Lab Sample ID: 720-51565-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	21	*	0.98		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	110		49		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-B10(10.0) — Lab Sample ID: 720-51565-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3300	*	49		mg/Kg	50		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	7900		2500		mg/Kg	50		8015B	Silica Gel Cleanup

Client Sample ID: TS-B13(10.0) — Lab Sample ID: 720-51565-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	14	*	1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	60		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-S4(4.0) — Lab Sample ID: 720-51565-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	8.3	*	0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-S5(4.0) — Lab Sample ID: 720-51565-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	96	*	5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	570		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: TS-S6(3.0) — Lab Sample ID: 720-51565-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	82	*	5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	480		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: TS-S8(5.0) — Lab Sample ID: 720-51565-19

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-S8(5.0) (Continued) — Lab Sample ID: 720-51565-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	58	*	5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	370		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: TS-S7(4.0) — Lab Sample ID: 720-51565-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	62	*	5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	440		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: TS-S17(5.0) — Lab Sample ID: 720-51565-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.0	*	0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-S18(6.0) — Lab Sample ID: 720-51565-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	13	*	0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	66		49		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-S19(5.0) — Lab Sample ID: 720-51565-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	5.8	*	1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-S20(5.0) — Lab Sample ID: 720-51565-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.9		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-S21(4.0) — Lab Sample ID: 720-51565-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	13		0.98		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	49		49		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-B11(3.0) — Lab Sample ID: 720-51565-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	17		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	76		50		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-B12(3.0)

Lab Sample ID: 720-51565-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	32		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	160		49		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: EX5-S5(2.5)
Date Collected: 08/09/13 14:03
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-4
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		500		ug/Kg		08/09/13 18:30	08/10/13 16:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*33 - 120*	*08/09/13 18:30*	*08/10/13 16:35*	*50*
Terphenyl-d14	*109*		*35 - 146*	*08/09/13 18:30*	*08/10/13 16:35*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**370**	*	9.9		mg/Kg		08/12/13 08:36	08/13/13 14:50	10
Motor Oil Range Organics [C24-C36]	**1400**		490		mg/Kg		08/12/13 08:36	08/13/13 14:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/12/13 08:36*	*08/13/13 14:50*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/12/13 08:36*	*08/13/13 14:50*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-B1(3.0)
Date Collected: 08/09/13 15:52
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12	*	1.0		mg/Kg		08/12/13 08:36	08/12/13 21:46	1
Motor Oil Range Organics [C24-C36]	60		50		mg/Kg		08/12/13 08:36	08/12/13 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*08/12/13 08:36*	*08/12/13 21:46*	*1*
p-Terphenyl	*82*		*38 - 148*	*08/12/13 08:36*	*08/12/13 21:46*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-B2(6.0)
Date Collected: 08/09/13 15:53
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-6
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	110	*	9.8		mg/Kg		08/12/13 08:36	08/13/13 14:01	10
Motor Oil Range Organics [C24-C36]	820		490		mg/Kg		08/12/13 08:36	08/13/13 14:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/12/13 08:36*	*08/13/13 14:01*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/12/13 08:36*	*08/13/13 14:01*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-B3(7.0)
Date Collected: 08/09/13 15:50
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-7
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.9**	*	1.0		mg/Kg		08/12/13 08:36	08/13/13 02:13	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 08:36	08/13/13 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*08/12/13 08:36*	*08/13/13 02:13*	*1*
p-Terphenyl	*96*		*38 - 148*	*08/12/13 08:36*	*08/13/13 02:13*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-B4(10.0)
Date Collected: 08/09/13 15:08
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-8
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**9.5**	*	0.98		mg/Kg		08/12/13 08:36	08/13/13 02:37	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/12/13 08:36	08/13/13 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.006*		*0 - 1*	*08/12/13 08:36*	*08/13/13 02:37*	*1*
p-Terphenyl	*123*		*38 - 148*	*08/12/13 08:36*	*08/13/13 02:37*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-B5(10.0)
Date Collected: 08/09/13 15:09
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-9
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.1	*	0.98		mg/Kg		08/12/13 08:36	08/13/13 11:06	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/12/13 08:36	08/13/13 11:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.006*		*0 - 1*	*08/12/13 08:36*	*08/13/13 11:06*	*1*
p-Terphenyl	*88*		*38 - 148*	*08/12/13 08:36*	*08/13/13 11:06*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-B6(10.0)
Date Collected: 08/09/13 15:10
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-10
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.1**	*	1.0		mg/Kg		08/12/13 08:36	08/13/13 01:49	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 08:36	08/13/13 01:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 1*	*08/12/13 08:36*	*08/13/13 01:49*	*1*
p-Terphenyl	*84*		*38 - 148*	*08/12/13 08:36*	*08/13/13 01:49*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-B7(10.0)
Date Collected: 08/09/13 15:11
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-11
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8.0**	*	1.0		mg/Kg		08/12/13 08:36	08/13/13 01:24	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 08:36	08/13/13 01:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*08/12/13 08:36*	*08/13/13 01:24*	*1*
p-Terphenyl	*84*		*38 - 148*	*08/12/13 08:36*	*08/13/13 01:24*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-B8(10.0)
Date Collected: 08/09/13 15:13
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-12
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	44	*	3.0		mg/Kg		08/12/13 08:36	08/13/13 11:55	3
Motor Oil Range Organics [C24-C36]	240		150		mg/Kg		08/12/13 08:36	08/13/13 11:55	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.1*		*0 - 1*	*08/12/13 08:36*	*08/13/13 11:55*	*3*
p-Terphenyl	*66*		*38 - 148*	*08/12/13 08:36*	*08/13/13 11:55*	*3*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-B9(10.0)
Date Collected: 08/09/13 15:14
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-13
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	21	*	0.98		mg/Kg		08/12/13 08:36	08/13/13 02:37	1
Motor Oil Range Organics [C24-C36]	110		49		mg/Kg		08/12/13 08:36	08/13/13 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.006*		*0 - 1*	*08/12/13 08:36*	*08/13/13 02:37*	*1*
p-Terphenyl	*82*		*38 - 148*	*08/12/13 08:36*	*08/13/13 02:37*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-B10(10.0)
Date Collected: 08/09/13 15:16
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-14
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3300	*	49		mg/Kg		08/12/13 08:36	08/13/13 03:09	50
Motor Oil Range Organics [C24-C36]	7900		2500		mg/Kg		08/12/13 08:36	08/13/13 03:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*	*D*	*0 - 1*	*08/12/13 08:36*	*08/13/13 03:09*	*50*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/12/13 08:36*	*08/13/13 03:09*	*50*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-B13(10.0)
Date Collected: 08/09/13 15:23
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-15
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	14	*	1.0		mg/Kg		08/12/13 08:36	08/13/13 03:02	1
Motor Oil Range Organics [C24-C36]	60		50		mg/Kg		08/12/13 08:36	08/13/13 03:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*08/12/13 08:36*	*08/13/13 03:02*	*1*
p-Terphenyl	*88*		*38 - 148*	*08/12/13 08:36*	*08/13/13 03:02*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-S4(4.0)
Date Collected: 08/09/13 16:19
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-16
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		08/09/13 18:30	08/10/13 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*33 - 120*	*08/09/13 18:30*	*08/10/13 16:58*	*1*
Terphenyl-d14	*72*		*35 - 146*	*08/09/13 18:30*	*08/10/13 16:58*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8.3**	*	0.99		mg/Kg		08/12/13 08:36	08/13/13 03:26	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 08:36	08/13/13 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.004*		*0 - 1*	*08/12/13 08:36*	*08/13/13 03:26*	*1*
p-Terphenyl	*89*		*38 - 148*	*08/12/13 08:36*	*08/13/13 03:26*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-S5(4.0)
Date Collected: 08/09/13 16:23
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-17
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		25		ug/Kg		08/09/13 18:30	08/11/13 16:38	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*33 - 120*	*08/09/13 18:30*	*08/11/13 16:38*	*5*
Terphenyl-d14	*82*		*35 - 146*	*08/09/13 18:30*	*08/11/13 16:38*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**96**	*	5.0		mg/Kg		08/12/13 08:36	08/13/13 02:39	5
Motor Oil Range Organics [C24-C36]	**570**		250		mg/Kg		08/12/13 08:36	08/13/13 02:39	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*	*D*	*0 - 1*	*08/12/13 08:36*	*08/13/13 02:39*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/12/13 08:36*	*08/13/13 02:39*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-S6(3.0)
Date Collected: 08/09/13 16:25
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-18
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	82	*	5.0		mg/Kg		08/12/13 08:36	08/13/13 12:23	5
Motor Oil Range Organics [C24-C36]	480		250		mg/Kg		08/12/13 08:36	08/13/13 12:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/12/13 08:36*	*08/13/13 12:23*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/12/13 08:36*	*08/13/13 12:23*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-S8(5.0)
Date Collected: 08/09/13 16:32
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-19
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	58	*	5.0		mg/Kg		08/12/13 08:36	08/13/13 13:12	5
Motor Oil Range Organics [C24-C36]	370		250		mg/Kg		08/12/13 08:36	08/13/13 13:12	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/12/13 08:36*	*08/13/13 13:12*	*5*
p-Terphenyl	*128*		*38 - 148*	*08/12/13 08:36*	*08/13/13 13:12*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-S7(4.0)
Date Collected: 08/09/13 16:27
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-20
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	62	*	5.0		mg/Kg		08/12/13 08:36	08/13/13 13:37	5
Motor Oil Range Organics [C24-C36]	440		250		mg/Kg		08/12/13 08:36	08/13/13 13:37	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/12/13 08:36*	*08/13/13 13:37*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/12/13 08:36*	*08/13/13 13:37*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-S17(5.0)
Date Collected: 08/09/13 16:34
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-21
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.0**	*	0.99		mg/Kg		08/12/13 08:36	08/13/13 01:41	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 08:36	08/13/13 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.04*		*0 - 1*	*08/12/13 08:36*	*08/13/13 01:41*	*1*
p-Terphenyl	*105*		*38 - 148*	*08/12/13 08:36*	*08/13/13 01:41*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-S18(6.0)
Date Collected: 08/09/13 16:36
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-22
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	13	*	0.99		mg/Kg		08/12/13 08:36	08/13/13 02:39	1
Motor Oil Range Organics [C24-C36]	66		49		mg/Kg		08/12/13 08:36	08/13/13 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.04*		*0 - 1*	*08/12/13 08:36*	*08/13/13 02:39*	*1*
p-Terphenyl	*88*		*38 - 148*	*08/12/13 08:36*	*08/13/13 02:39*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-S19(5.0)
Date Collected: 08/09/13 16:38
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-23
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.8**	*	1.0		mg/Kg		08/12/13 08:36	08/13/13 02:10	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 08:36	08/13/13 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.008*		*0 - 1*	*08/12/13 08:36*	*08/13/13 02:10*	*1*
p-Terphenyl	*91*		*38 - 148*	*08/12/13 08:36*	*08/13/13 02:10*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-S20(5.0)
Date Collected: 08/09/13 16:40
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-24
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.9**		0.99		mg/Kg		08/12/13 08:45	08/12/13 21:42	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 08:45	08/12/13 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*08/12/13 08:45*	*08/12/13 21:42*	*1*
p-Terphenyl	*85*		*38 - 148*	*08/12/13 08:45*	*08/12/13 21:42*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-S21(4.0)
Date Collected: 08/09/13 16:43
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-25
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		08/09/13 18:30	08/11/13 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*08/09/13 18:30*	*08/11/13 16:59*	*1*
Terphenyl-d14	*82*		*35 - 146*	*08/09/13 18:30*	*08/11/13 16:59*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**13**		0.98		mg/Kg		08/12/13 08:45	08/12/13 20:19	1
Motor Oil Range Organics [C24-C36]	**49**		49		mg/Kg		08/12/13 08:45	08/12/13 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*08/12/13 08:45*	*08/12/13 20:19*	*1*
p-Terphenyl	*101*		*38 - 148*	*08/12/13 08:45*	*08/12/13 20:19*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-B11(3.0)
Date Collected: 08/09/13 15:17
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-26
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	17		1.0		mg/Kg		08/12/13 08:45	08/12/13 20:48	1
Motor Oil Range Organics [C24-C36]	76		50		mg/Kg		08/12/13 08:45	08/12/13 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*08/12/13 08:45*	*08/12/13 20:48*	*1*
p-Terphenyl	*73*		*38 - 148*	*08/12/13 08:45*	*08/12/13 20:48*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-B12(3.0)
Date Collected: 08/09/13 15:24
Date Received: 08/09/13 18:24

Lab Sample ID: 720-51565-27
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	32		0.99		mg/Kg		08/12/13 08:45	08/12/13 21:17	1
Motor Oil Range Organics [C24-C36]	160		49		mg/Kg		08/12/13 08:45	08/12/13 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.1*		*0 - 1*	*08/12/13 08:45*	*08/12/13 21:17*	*1*
p-Terphenyl	*64*		*38 - 148*	*08/12/13 08:45*	*08/12/13 21:17*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-141903/1-A
Matrix: Solid
Analysis Batch: 141907

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 141903

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		08/09/13 10:41	08/09/13 17:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*33 - 120*	*08/09/13 10:41*	*08/09/13 17:02*	*1*
Terphenyl-d14	*99*		*35 - 146*	*08/09/13 10:41*	*08/09/13 17:02*	*1*

Lab Sample ID: LCS 720-141903/2-A
Matrix: Solid
Analysis Batch: 141907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141903

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			332	184		ug/Kg		55	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*67*		*33 - 120*
Terphenyl-d14	*98*		*35 - 146*

Lab Sample ID: LCSD 720-141903/3-A
Matrix: Solid
Analysis Batch: 141907

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 141903

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			333	187		ug/Kg		56	46 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*33 - 120*
Terphenyl-d14	*99*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-142010/1-A
Matrix: Solid
Analysis Batch: 142004

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 142010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/12/13 08:36	08/12/13 22:07	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 08:36	08/12/13 22:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*08/12/13 08:36*	*08/12/13 22:07*	*1*
p-Terphenyl	*82*		*38 - 148*	*08/12/13 08:36*	*08/12/13 22:07*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-142010/2-A
Matrix: Solid
Analysis Batch: 142004

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 142010

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.9	46.6		mg/Kg		56	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*100*		*38 - 148*

Lab Sample ID: LCSD 720-142010/3-A
Matrix: Solid
Analysis Batch: 142004

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 142010

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.6	67.8	*	mg/Kg		82	36 - 112	37	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*102*		*38 - 148*

Lab Sample ID: 720-51565-4 MS
Matrix: Solid
Analysis Batch: 142003

Client Sample ID: EX5-S5(2.5)
Prep Type: Silica Gel Cleanup
Prep Batch: 142010

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	370	*	83.2	149	4	mg/Kg		-270	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*38 - 148*

Lab Sample ID: 720-51565-4 MSD
Matrix: Solid
Analysis Batch: 142003

Client Sample ID: EX5-S5(2.5)
Prep Type: Silica Gel Cleanup
Prep Batch: 142010

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	370	*	82.9	191	4	mg/Kg		-220	50 - 150	25	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*38 - 148*

Lab Sample ID: MB 720-142012/1-A
Matrix: Solid
Analysis Batch: 142003

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 142012

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/12/13 08:45	08/12/13 22:58	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 08:45	08/12/13 22:58	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-142012/1-A
Matrix: Solid
Analysis Batch: 142003

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 142012

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.006		0 - 1	08/12/13 08:45	08/12/13 22:58	1
p-Terphenyl	89		38 - 148	08/12/13 08:45	08/12/13 22:58	1

Lab Sample ID: LCS 720-142012/2-A
Matrix: Solid
Analysis Batch: 142003

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 142012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.8	61.7		mg/Kg		74	36 - 112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	97		38 - 148

Lab Sample ID: LCSD 720-142012/3-A
Matrix: Solid
Analysis Batch: 142003

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 142012

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	83.2	57.4		mg/Kg		69	36 - 112	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	93		38 - 148

Lab Sample ID: 720-51565-24 MS
Matrix: Solid
Analysis Batch: 142003

Client Sample ID: TS-S20(5.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 142012

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	4.9		82.7	57.5		mg/Kg		64	50 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	78		38 - 148

Lab Sample ID: 720-51565-24 MSD
Matrix: Solid
Analysis Batch: 142003

Client Sample ID: TS-S20(5.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 142012

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	4.9		82.4	57.1		mg/Kg		63	50 - 150	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	80		38 - 148

GC/MS Semi VOA

Prep Batch: 141903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51565-4	EX5-S5(2.5)	Total/NA	Solid	3546	
720-51565-16	TS-S4(4.0)	Total/NA	Solid	3546	
720-51565-17	TS-S5(4.0)	Total/NA	Solid	3546	
720-51565-25	TS-S21(4.0)	Total/NA	Solid	3546	
LCS 720-141903/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-141903/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-141903/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 141907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-141903/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	141903
LCSD 720-141903/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	141903
MB 720-141903/1-A	Method Blank	Total/NA	Solid	8270C SIM	141903

Analysis Batch: 141982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51565-4	EX5-S5(2.5)	Total/NA	Solid	8270C SIM	141903
720-51565-16	TS-S4(4.0)	Total/NA	Solid	8270C SIM	141903

Analysis Batch: 142001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51565-17	TS-S5(4.0)	Total/NA	Solid	8270C SIM	141903
720-51565-25	TS-S21(4.0)	Total/NA	Solid	8270C SIM	141903

GC Semi VOA

Analysis Batch: 142003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51565-4 MS	EX5-S5(2.5)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-4 MSD	EX5-S5(2.5)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-7	TS-B3(7.0)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-8	TS-B4(10.0)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-24	TS-S20(5.0)	Silica Gel Cleanup	Solid	8015B	142012
720-51565-24 MS	TS-S20(5.0)	Silica Gel Cleanup	Solid	8015B	142012
720-51565-24 MSD	TS-S20(5.0)	Silica Gel Cleanup	Solid	8015B	142012
LCS 720-142012/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	142012
LCSD 720-142012/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	142012
MB 720-142012/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	142012

Analysis Batch: 142004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51565-10	TS-B6(10.0)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-11	TS-B7(10.0)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-13	TS-B9(10.0)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-15	TS-B13(10.0)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-16	TS-S4(4.0)	Silica Gel Cleanup	Solid	8015B	142010
LCS 720-142010/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	142010
LCSD 720-142010/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	142010
MB 720-142010/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	142010

GC Semi VOA (Continued)

Prep Batch: 142010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51565-4	EX5-S5(2.5)	Silica Gel Cleanup	Solid	3546	
720-51565-4 MS	EX5-S5(2.5)	Silica Gel Cleanup	Solid	3546	
720-51565-4 MSD	EX5-S5(2.5)	Silica Gel Cleanup	Solid	3546	
720-51565-5	TS-B1(3.0)	Silica Gel Cleanup	Solid	3546	
720-51565-6	TS-B2(6.0)	Silica Gel Cleanup	Solid	3546	
720-51565-7	TS-B3(7.0)	Silica Gel Cleanup	Solid	3546	
720-51565-8	TS-B4(10.0)	Silica Gel Cleanup	Solid	3546	
720-51565-9	TS-B5(10.0)	Silica Gel Cleanup	Solid	3546	
720-51565-10	TS-B6(10.0)	Silica Gel Cleanup	Solid	3546	
720-51565-11	TS-B7(10.0)	Silica Gel Cleanup	Solid	3546	
720-51565-12	TS-B8(10.0)	Silica Gel Cleanup	Solid	3546	
720-51565-13	TS-B9(10.0)	Silica Gel Cleanup	Solid	3546	
720-51565-14	TS-B10(10.0)	Silica Gel Cleanup	Solid	3546	
720-51565-15	TS-B13(10.0)	Silica Gel Cleanup	Solid	3546	
720-51565-16	TS-S4(4.0)	Silica Gel Cleanup	Solid	3546	
720-51565-17	TS-S5(4.0)	Silica Gel Cleanup	Solid	3546	
720-51565-18	TS-S6(3.0)	Silica Gel Cleanup	Solid	3546	
720-51565-19	TS-S8(5.0)	Silica Gel Cleanup	Solid	3546	
720-51565-20	TS-S7(4.0)	Silica Gel Cleanup	Solid	3546	
720-51565-21	TS-S17(5.0)	Silica Gel Cleanup	Solid	3546	
720-51565-22	TS-S18(6.0)	Silica Gel Cleanup	Solid	3546	
720-51565-23	TS-S19(5.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-142010/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-142010/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-142010/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Prep Batch: 142012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51565-24	TS-S20(5.0)	Silica Gel Cleanup	Solid	3546	
720-51565-24 MS	TS-S20(5.0)	Silica Gel Cleanup	Solid	3546	
720-51565-24 MSD	TS-S20(5.0)	Silica Gel Cleanup	Solid	3546	
720-51565-25	TS-S21(4.0)	Silica Gel Cleanup	Solid	3546	
720-51565-26	TS-B11(3.0)	Silica Gel Cleanup	Solid	3546	
720-51565-27	TS-B12(3.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-142012/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-142012/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-142012/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 142015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51565-14	TS-B10(10.0)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-17	TS-S5(4.0)	Silica Gel Cleanup	Solid	8015B	142010

Analysis Batch: 142016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51565-5	TS-B1(3.0)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-21	TS-S17(5.0)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-22	TS-S18(6.0)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-23	TS-S19(5.0)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-25	TS-S21(4.0)	Silica Gel Cleanup	Solid	8015B	142012
720-51565-26	TS-B11(3.0)	Silica Gel Cleanup	Solid	8015B	142012

GC Semi VOA (Continued)

Analysis Batch: 142016 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51565-27	TS-B12(3.0)	Silica Gel Cleanup	Solid	8015B	142012

Analysis Batch: 142090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51565-4	EX5-S5(2.5)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-6	TS-B2(6.0)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-9	TS-B5(10.0)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-12	TS-B8(10.0)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-18	TS-S6(3.0)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-19	TS-S8(5.0)	Silica Gel Cleanup	Solid	8015B	142010
720-51565-20	TS-S7(4.0)	Silica Gel Cleanup	Solid	8015B	142010

Client Sample ID: EX5-S5(2.5)

Lab Sample ID: 720-51565-4

Date Collected: 08/09/13 14:03

Matrix: Solid

Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141903	08/09/13 18:30	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		50	141982	08/10/13 16:35	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	142090	08/13/13 14:50	DCH	TAL PLS

Client Sample ID: TS-B1(3.0)

Lab Sample ID: 720-51565-5

Date Collected: 08/09/13 15:52

Matrix: Solid

Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142016	08/12/13 21:46	DCH	TAL PLS

Client Sample ID: TS-B2(6.0)

Lab Sample ID: 720-51565-6

Date Collected: 08/09/13 15:53

Matrix: Solid

Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	142090	08/13/13 14:01	DCH	TAL PLS

Client Sample ID: TS-B3(7.0)

Lab Sample ID: 720-51565-7

Date Collected: 08/09/13 15:50

Matrix: Solid

Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142003	08/13/13 02:13	DCH	TAL PLS

Client Sample ID: TS-B4(10.0)

Lab Sample ID: 720-51565-8

Date Collected: 08/09/13 15:08

Matrix: Solid

Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142003	08/13/13 02:37	DCH	TAL PLS

Client Sample ID: TS-B5(10.0) — **Lab Sample ID: 720-51565-9**
Date Collected: 08/09/13 15:09 — **Matrix: Solid**
Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142090	08/13/13 11:06	DCH	TAL PLS

Client Sample ID: TS-B6(10.0) — **Lab Sample ID: 720-51565-10**
Date Collected: 08/09/13 15:10 — **Matrix: Solid**
Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142004	08/13/13 01:49	DCH	TAL PLS

Client Sample ID: TS-B7(10.0) — **Lab Sample ID: 720-51565-11**
Date Collected: 08/09/13 15:11 — **Matrix: Solid**
Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142004	08/13/13 01:24	DCH	TAL PLS

Client Sample ID: TS-B8(10.0) — **Lab Sample ID: 720-51565-12**
Date Collected: 08/09/13 15:13 — **Matrix: Solid**
Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	142090	08/13/13 11:55	DCH	TAL PLS

Client Sample ID: TS-B9(10.0) — **Lab Sample ID: 720-51565-13**
Date Collected: 08/09/13 15:14 — **Matrix: Solid**
Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142004	08/13/13 02:37	DCH	TAL PLS

Client Sample ID: TS-B10(10.0) — **Lab Sample ID: 720-51565-14**
Date Collected: 08/09/13 15:16 — **Matrix: Solid**
Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		50	142015	08/13/13 03:09	DCH	TAL PLS

Client Sample ID: TS-B13(10.0) — **Lab Sample ID: 720-51565-15**
Date Collected: 08/09/13 15:23 — **Matrix: Solid**
Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142004	08/13/13 03:02	DCH	TAL PLS

Client Sample ID: TS-S4(4.0) — **Lab Sample ID: 720-51565-16**
Date Collected: 08/09/13 16:19 — **Matrix: Solid**
Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141903	08/09/13 18:30	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		1	141982	08/10/13 16:58	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142004	08/13/13 03:26	DCH	TAL PLS

Client Sample ID: TS-S5(4.0) — **Lab Sample ID: 720-51565-17**
Date Collected: 08/09/13 16:23 — **Matrix: Solid**
Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141903	08/09/13 18:30	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		5	142001	08/11/13 16:38	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	142015	08/13/13 02:39	DCH	TAL PLS

Client Sample ID: TS-S6(3.0) — **Lab Sample ID: 720-51565-18**
Date Collected: 08/09/13 16:25 — **Matrix: Solid**
Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	142090	08/13/13 12:23	DCH	TAL PLS

Client Sample ID: TS-S8(5.0) — **Lab Sample ID: 720-51565-19**
Date Collected: 08/09/13 16:32 — **Matrix: Solid**
Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	142090	08/13/13 13:12	DCH	TAL PLS

Client Sample ID: TS-S7(4.0) — **Lab Sample ID: 720-51565-20**
Date Collected: 08/09/13 16:27 — **Matrix: Solid**
Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	142090	08/13/13 13:37	DCH	TAL PLS

Client Sample ID: TS-S17(5.0) — **Lab Sample ID: 720-51565-21**
Date Collected: 08/09/13 16:34 — **Matrix: Solid**
Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142016	08/13/13 01:41	DCH	TAL PLS

Client Sample ID: TS-S18(6.0) — **Lab Sample ID: 720-51565-22**
Date Collected: 08/09/13 16:36 — **Matrix: Solid**
Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142016	08/13/13 02:39	DCH	TAL PLS

Client Sample ID: TS-S19(5.0) — **Lab Sample ID: 720-51565-23**
Date Collected: 08/09/13 16:38 — **Matrix: Solid**
Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142010	08/12/13 08:36	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142016	08/13/13 02:10	DCH	TAL PLS

Client Sample ID: TS-S20(5.0) — **Lab Sample ID: 720-51565-24**
Date Collected: 08/09/13 16:40 — **Matrix: Solid**
Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142012	08/12/13 08:45	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142003	08/12/13 21:42	DCH	TAL PLS

Client Sample ID: TS-S21(4.0) — **Lab Sample ID: 720-51565-25**
Date Collected: 08/09/13 16:43 — **Matrix: Solid**
Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			141903	08/09/13 18:30	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		1	142001	08/11/13 16:59	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			142012	08/12/13 08:45	MRP	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Client Sample ID: TS-S21(4.0)

Lab Sample ID: 720-51565-25

Date Collected: 08/09/13 16:43

Matrix: Solid

Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Analysis	8015B		1	142016	08/12/13 20:19	DCH	TAL PLS

Client Sample ID: TS-B11(3.0)

Lab Sample ID: 720-51565-26

Date Collected: 08/09/13 15:17

Matrix: Solid

Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142012	08/12/13 08:45	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142016	08/12/13 20:48	DCH	TAL PLS

Client Sample ID: TS-B12(3.0)

Lab Sample ID: 720-51565-27

Date Collected: 08/09/13 15:24

Matrix: Solid

Date Received: 08/09/13 18:24

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142012	08/12/13 08:45	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142016	08/12/13 21:17	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51565-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51565-4	EX5-S5(2.5)	Solid	08/09/13 14:03	08/09/13 18:24
720-51565-5	TS-B1(3.0)	Solid	08/09/13 15:52	08/09/13 18:24
720-51565-6	TS-B2(6.0)	Solid	08/09/13 15:53	08/09/13 18:24
720-51565-7	TS-B3(7.0)	Solid	08/09/13 15:50	08/09/13 18:24
720-51565-8	TS-B4(10.0)	Solid	08/09/13 15:08	08/09/13 18:24
720-51565-9	TS-B5(10.0)	Solid	08/09/13 15:09	08/09/13 18:24
720-51565-10	TS-B6(10.0)	Solid	08/09/13 15:10	08/09/13 18:24
720-51565-11	TS-B7(10.0)	Solid	08/09/13 15:11	08/09/13 18:24
720-51565-12	TS-B8(10.0)	Solid	08/09/13 15:13	08/09/13 18:24
720-51565-13	TS-B9(10.0)	Solid	08/09/13 15:14	08/09/13 18:24
720-51565-14	TS-B10(10.0)	Solid	08/09/13 15:16	08/09/13 18:24
720-51565-15	TS-B13(10.0)	Solid	08/09/13 15:23	08/09/13 18:24
720-51565-16	TS-S4(4.0)	Solid	08/09/13 16:19	08/09/13 18:24
720-51565-17	TS-S5(4.0)	Solid	08/09/13 16:23	08/09/13 18:24
720-51565-18	TS-S6(3.0)	Solid	08/09/13 16:25	08/09/13 18:24
720-51565-19	TS-S8(5.0)	Solid	08/09/13 16:32	08/09/13 18:24
720-51565-20	TS-S7(4.0)	Solid	08/09/13 16:27	08/09/13 18:24
720-51565-21	TS-S17(5.0)	Solid	08/09/13 16:34	08/09/13 18:24
720-51565-22	TS-S18(6.0)	Solid	08/09/13 16:36	08/09/13 18:24
720-51565-23	TS-S19(5.0)	Solid	08/09/13 16:38	08/09/13 18:24
720-51565-24	TS-S20(5.0)	Solid	08/09/13 16:40	08/09/13 18:24
720-51565-25	TS-S21(4.0)	Solid	08/09/13 16:43	08/09/13 18:24
720-51565-26	TS-B11(3.0)	Solid	08/09/13 15:17	08/09/13 18:24
720-51565-27	TS-B12(3.0)	Solid	08/09/13 15:24	08/09/13 18:24

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-51565

Reference #: 147852

Date 8/9/13 Page 1 of 3

8/14/2013

Report To

Attn. KRISTIN GUTHRIE
Company Haley & Aldrich
Address: 2033 N Main St, Walnut Creek
Email: KGUTHRIE@haleyaldrich.com
Bill To: H&A
Sampled By: JSebik
Attn
Phone. 925-357-7355

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C PNA/PAH's by ☐ 8270C ☒ 8270C SIM	Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS)	☐ WET (STLC) ☐ WET (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Hold		Number of Containers
EB-080913	8/9/13	1657	W	—				X														X		2
CFS-B2(1.0)		0834	S	ice																		X		1
CF6-B2(1.0)		0808																				X		1
EX5-S5(2.5)		1403						X	X															1
TS-B1(15.0)		1552						X																1
TS-B2(16.0)		1553						X																1
TS-B3(15.0)		1550						X																1
TS-B4(10.0)		1508						X																1
TS-B5(10.0)		1509						X																1
TS-B6(10.0)		1510						X																1

RUSH

Project Info

Project Name/ #: Former Hanson Aggregates Facility
PO#: 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp. 4.9°C

TAT: 10 Day | 5 Day | 4 Day | 3 Day | (2 Day) | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____
8270C SIM - naphthalene only

See Terms and Conditions on reverse

1) Relinquished by:
Signature: [signature] Time: 1824
Printed Name: JOANNA SEBIK Date: 8/9/13
Company: Haley & Aldrich

2) Relinquished by:
Signature: Time:
Printed Name: Date:
Company:

3) Relinquished by
Signature: Time:
Printed Name: Date:
Company:

1) Received by:
Signature: [signature] Time: 1824
Printed Name: Mulley Date: 8-9-13
Company:

2) Received by
Signature: Time:
Printed Name: Date:
Company:

Received by
Signature: Time:
Printed Name: Date:
Company:

720-51565 Chain of Custody

Rev.10/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference # 147852
120-51565
Date 8/9/13 Page 2 of 3

8/14/2013

Report To

Attn: K GUTHRIE
Company Haley & Aldrich
Address 2033 N Main, Walnut Creek CA
Email KGUTHRIE@haleyaldrich.com
Bill To H&A
Sampled By: JSebin
Attn:
Phone: 925-357-7355

Analysis Request

Sample ID	Date	Time	Mat. Matrix	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☒ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
TS-B7(10.0)	8/9/13	1511	S	ice				X																		1
TS-B8(10.0)		1513						X																		1
TS-B9(10.0)		1514						X																		1
TS-B10(10.0)		1516						X																		1
~~TS-B11(10.0)~~		1517						X																		1
~~TS-B12(10.0)~~		1524						X																		1
TS-B13(10.0)		1523						X																		1
TS-S4(4.0)		1619						X		X																1
TS-S5(4.0)		1623						X		X																1
TS-S6(3.0)		1625						X																		1

RUSH

Project Info.

Project Name/ #: Former Hanson Aggregate Facility
PO#: 39792
Credit Card Y/N.

Sample Receipt

of Containers:
Head Space:
Temp:
If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | 3 Day | (2 Day) | 1 Day | Other

Report. ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments. ☐ Global ID
8270C sim - naphthalene ONLY

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Joanna Sebin Time: 1824	Signature: Time:	Signature: Time:
Printed Name: JOANNA SEBIN Date: 8/9/13	Printed Name: Date:	Printed Name: Date:
Company: H&A	Company:	Company:

1) Received by:	2) Received by:	3) Received by
Signature: Joan Mally Time: 1824	Signature: Time:	Signature: Time:
Printed Name: Mallory Date: 8-9-13	Printed Name: Date:	Printed Name: Date:
Company: tal Amic	Company:	Company:

Rev 10/2012

720-51565

HALE ALDRICH

Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1402

Phon 17) 886-7400
Fax (617) 886-7600

CHAIN OF CUSTODY RECORD

H&A FILE NO.	39792	LABORATORY	Test America
PROJECT NAME	Former Hanson Aggregate Facility	ADDRESS	1220 Quarry Lane
H&A CONTACT	J Sebik	CONTACT	D Sharma
		DELIVERY DATE	147852
		TURNAROUND TIME	48hr
		PROJECT MANAGER	K Guthrie

Sample No.	Date	Time	Depth	Type	VOA	ABNs PAH only	MCP Metals	Pesticides PCBs	VPH Full Suite C-ranges only	EPH Full Suite C-ranges only	TPH (specify)	TCLP (specify)	Reactivity Ignitability Corrosivity	TPH-8015 MO	Silica gel cleanup 8270SIM	Number of Containers
~~TS-56(4.0)~~																
TS-58(5.0)	8/9/13	1632	5.0	S										X	X	1
TS-57(4.0)		1627	4.0											X	X	1
TS-517(5.0)		1634	5.0											X	X	1
TS-518(6.0)		1636	6.0											X	X	1
TS-519(5.0)		1638	5.0											X	X	1
TS-520(5.0)		1640	5.0											X	X	1
TS-521(4.0)		1643	4.0											X	X	1
TS-311(3.0)		1517	3.0											X	X	1
TS-312(3.0)		1524	3.0											X	X	1

Analysis Requested

Comments (special instructions, precautions, additional method numbers, etc.)

~~Laboratory to use applicable DEP CAM methods, unless otherwise directed.~~

8270CSIM
→naphthalene
ONLY
2

Sampled and Relinquished by	Received by
Sign Joanna Sebik	Sign
Print JOANNA SEBIK	Print
Firm H&A	Firm
Date 8/9/13 Time 1824	Date 8-9-13 Time 1824
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID

VOA Vial
Amber Glass
Plastic Bottle
Preservative
Volume

SOLID

RUSH

VOA Vial
Amber Glass
Clear Glass
Preservative
Volume

Sampling Comments

Evidence samples were tampered with? YES NO

If YES, please explain in section below.

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Water/NaHSO4 (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate Laboratory should (specify if applicable) _____ analyz

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD - Haley & Aldrich Contact

Form 3003

APRIL 2004

8/14/2013

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51565-1

Login Number: 51565

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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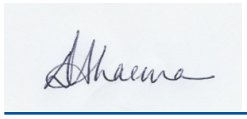
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51571-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie



Authorized for release by:
8/14/2013 3:31:12 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Job ID: 720-51571-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51571-1

Comments
No additional comments.

Receipt
The samples were received on 8/12/2013 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.2º C.

GC/MS Semi VOA
Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: EX4-S5(2.0) (720-51571-8), EX4-S6(2.0) (720-51571-9). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: EX4-B3(6.0) (720-51571-3), EX4-S3(3.0) (720-51571-6), EX4-S4(3.0) (720-51571-7), EX4-S5(2.0) (720-51571-8), EX4-S6(2.0) (720-51571-9), EX4-S7(3.0) (720-51571-10).

Method 8015B: Capric acid surrogate recovery for the following sample was outside control limits: EX11-S2(2.0) (720-51571-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX4-B1(6.0) — Lab Sample ID: 720-51571-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.1		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX4-B2(6.0) — Lab Sample ID: 720-51571-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	57		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	190		150		mg/Kg	3		8015B	Silica Gel Cleanup

Client Sample ID: EX4-B3(6.0) — Lab Sample ID: 720-51571-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	780		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	770		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S1(3.0) — Lab Sample ID: 720-51571-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	0.99		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S2(3.0) — Lab Sample ID: 720-51571-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	140		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	330		99		mg/Kg	2		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S3(3.0) — Lab Sample ID: 720-51571-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	280		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	560		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S4(3.0) — Lab Sample ID: 720-51571-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	850		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	840		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S5(2.0) — Lab Sample ID: 720-51571-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	570		4.9		mg/Kg	5		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client Sample ID: EX4-S5(2.0) (Continued) — Lab Sample ID: 720-51571-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	720		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S6(2.0) — Lab Sample ID: 720-51571-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	690		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	2200		990		mg/Kg	20		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S7(3.0) — Lab Sample ID: 720-51571-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	360		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	700		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S8(3.0) — Lab Sample ID: 720-51571-11

No Detections.

Client Sample ID: EX11-B1(4.0) — Lab Sample ID: 720-51571-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	63		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	130		49		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX11-S1(2.0) — Lab Sample ID: 720-51571-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	35		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	67		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX11-S2(2.0) — Lab Sample ID: 720-51571-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	170		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	120		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX11-S3(2.0) — Lab Sample ID: 720-51571-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	73		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	170		50		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX11-S4(2.0)

Lab Sample ID: 720-51571-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	33		0.98		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	76		49		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX4-B1(6.0)
Date Collected: 08/12/13 07:49
Date Received: 08/12/13 09:45

Lab Sample ID: 720-51571-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.1**		1.0		mg/Kg		08/12/13 11:42	08/12/13 19:20	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 11:42	08/12/13 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.03*		*0 - 1*	*08/12/13 11:42*	*08/12/13 19:20*	*1*
p-Terphenyl	*93*		*38 - 148*	*08/12/13 11:42*	*08/12/13 19:20*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX4-B2(6.0)
Date Collected: 08/12/13 07:48
Date Received: 08/12/13 09:45

Lab Sample ID: 720-51571-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	57		3.0		mg/Kg		08/12/13 11:42	08/13/13 12:47	3
Motor Oil Range Organics [C24-C36]	190		150		mg/Kg		08/12/13 11:42	08/13/13 12:47	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/12/13 11:42*	*08/13/13 12:47*	*3*
p-Terphenyl	*73*		*38 - 148*	*08/12/13 11:42*	*08/13/13 12:47*	*3*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX4-B3(6.0)
Date Collected: 08/12/13 07:48
Date Received: 08/12/13 09:45

Lab Sample ID: 720-51571-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	780		5.0		mg/Kg		08/12/13 11:42	08/13/13 01:12	5
Motor Oil Range Organics [C24-C36]	770		250		mg/Kg		08/12/13 11:42	08/13/13 01:12	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*	*D*	*0 - 1*	*08/12/13 11:42*	*08/13/13 01:12*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/12/13 11:42*	*08/13/13 01:12*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX4-S1(3.0)
Date Collected: 08/12/13 07:27
Date Received: 08/12/13 09:45

Lab Sample ID: 720-51571-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**0.99**		0.99		mg/Kg		08/12/13 11:42	08/12/13 18:51	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 11:42	08/12/13 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*08/12/13 11:42*	*08/12/13 18:51*	*1*
p-Terphenyl	*95*		*38 - 148*	*08/12/13 11:42*	*08/12/13 18:51*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX4-S2(3.0)
Date Collected: 08/12/13 07:30
Date Received: 08/12/13 09:45

Lab Sample ID: 720-51571-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	140		2.0		mg/Kg		08/12/13 11:42	08/12/13 21:46	2
Motor Oil Range Organics [C24-C36]	330		99		mg/Kg		08/12/13 11:42	08/12/13 21:46	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.3*		*0 - 1*	*08/12/13 11:42*	*08/12/13 21:46*	*2*
p-Terphenyl	*50*		*38 - 148*	*08/12/13 11:42*	*08/12/13 21:46*	*2*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX4-S3(3.0)
Date Collected: 08/12/13 07:36
Date Received: 08/12/13 09:45

Lab Sample ID: 720-51571-6
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	280		5.0		mg/Kg		08/12/13 11:42	08/13/13 00:13	5
Motor Oil Range Organics [C24-C36]	560		250		mg/Kg		08/12/13 11:42	08/13/13 00:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*	*D*	*0 - 1*	*08/12/13 11:42*	*08/13/13 00:13*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/12/13 11:42*	*08/13/13 00:13*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX4-S4(3.0)
Date Collected: 08/12/13 07:40
Date Received: 08/12/13 09:45

Lab Sample ID: 720-51571-7
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	850		5.0		mg/Kg		08/12/13 11:42	08/12/13 19:50	5
Motor Oil Range Organics [C24-C36]	840		250		mg/Kg		08/12/13 11:42	08/12/13 19:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*	*D*	*0 - 1*	*08/12/13 11:42*	*08/12/13 19:50*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/12/13 11:42*	*08/12/13 19:50*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX4-S5(2.0)
Date Collected: 08/12/13 07:45
Date Received: 08/12/13 09:45

Lab Sample ID: 720-51571-8
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		50		ug/Kg		08/12/13 11:59	08/13/13 16:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*105*		*33 - 120*	*08/12/13 11:59*	*08/13/13 16:24*	*10*
Terphenyl-d14	*106*		*35 - 146*	*08/12/13 11:59*	*08/13/13 16:24*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**570**		4.9		mg/Kg		08/12/13 11:42	08/13/13 00:42	5
Motor Oil Range Organics [C24-C36]	**720**		250		mg/Kg		08/12/13 11:42	08/13/13 00:42	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*	*D*	*0 - 1*	*08/12/13 11:42*	*08/13/13 00:42*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/12/13 11:42*	*08/13/13 00:42*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX4-S6(2.0)
Date Collected: 08/12/13 07:42
Date Received: 08/12/13 09:45

Lab Sample ID: 720-51571-9
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		490		ug/Kg		08/12/13 11:59	08/13/13 16:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*33 - 120*	*08/12/13 11:59*	*08/13/13 16:44*	*50*
Terphenyl-d14	*118*		*35 - 146*	*08/12/13 11:59*	*08/13/13 16:44*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**690**		20		mg/Kg		08/12/13 11:42	08/13/13 01:41	20
Motor Oil Range Organics [C24-C36]	**2200**		990		mg/Kg		08/12/13 11:42	08/13/13 01:41	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*	*D*	*0 - 1*	*08/12/13 11:42*	*08/13/13 01:41*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/12/13 11:42*	*08/13/13 01:41*	*20*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX4-S7(3.0)
Date Collected: 08/12/13 07:38
Date Received: 08/12/13 09:45

Lab Sample ID: 720-51571-10
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	360		5.0		mg/Kg		08/12/13 11:42	08/13/13 02:10	5
Motor Oil Range Organics [C24-C36]	700		250		mg/Kg		08/12/13 11:42	08/13/13 02:10	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*	*D*	*0 - 1*	*08/12/13 11:42*	*08/13/13 02:10*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/12/13 11:42*	*08/13/13 02:10*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX4-S8(3.0)
Date Collected: 08/12/13 07:32
Date Received: 08/12/13 09:45

Lab Sample ID: 720-51571-11
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/12/13 11:42	08/12/13 18:50	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/12/13 11:42	08/12/13 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.008*		*0 - 1*	*08/12/13 11:42*	*08/12/13 18:50*	*1*
p-Terphenyl	*76*		*38 - 148*	*08/12/13 11:42*	*08/12/13 18:50*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX11-B1(4.0)
Date Collected: 08/12/13 09:20
Date Received: 08/12/13 09:45

Lab Sample ID: 720-51571-12
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	63		0.99		mg/Kg		08/12/13 11:42	08/12/13 19:50	1
Motor Oil Range Organics [C24-C36]	130		49		mg/Kg		08/12/13 11:42	08/12/13 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/12/13 11:42*	*08/12/13 19:50*	*1*
p-Terphenyl	*80*		*38 - 148*	*08/12/13 11:42*	*08/12/13 19:50*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX11-S1(2.0)
Date Collected: 08/12/13 09:00
Date Received: 08/12/13 09:45

Lab Sample ID: 720-51571-13
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		4.9		ug/Kg		08/12/13 11:59	08/13/13 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*80*		*33 - 120*	*08/12/13 11:59*	*08/13/13 17:05*	*1*
Terphenyl-d14	*88*		*35 - 146*	*08/12/13 11:59*	*08/13/13 17:05*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**35**		0.99		mg/Kg		08/12/13 11:42	08/13/13 19:40	1
Motor Oil Range Organics [C24-C36]	**67**		50		mg/Kg		08/12/13 11:42	08/13/13 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.4*		*0 - 1*	*08/12/13 11:42*	*08/13/13 19:40*	*1*
p-Terphenyl	*83*		*38 - 148*	*08/12/13 11:42*	*08/13/13 19:40*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX11-S2(2.0)
Date Collected: 08/12/13 09:05
Date Received: 08/12/13 09:45

Lab Sample ID: 720-51571-14
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	170		1.0		mg/Kg		08/12/13 11:42	08/12/13 18:51	1
Motor Oil Range Organics [C24-C36]	120		50		mg/Kg		08/12/13 11:42	08/12/13 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*5*	*X*	*0 - 1*	*08/12/13 11:42*	*08/12/13 18:51*	*1*
p-Terphenyl	*96*		*38 - 148*	*08/12/13 11:42*	*08/12/13 18:51*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX11-S3(2.0)
Date Collected: 08/12/13 09:10
Date Received: 08/12/13 09:45

Lab Sample ID: 720-51571-15
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		08/12/13 11:59	08/13/13 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*33 - 120*	*08/12/13 11:59*	*08/13/13 15:22*	*1*
Terphenyl-d14	*92*		*35 - 146*	*08/12/13 11:59*	*08/13/13 15:22*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**73**		1.0		mg/Kg		08/12/13 11:42	08/12/13 19:15	1
Motor Oil Range Organics [C24-C36]	**170**		50		mg/Kg		08/12/13 11:42	08/12/13 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*1*		*0 - 1*	*08/12/13 11:42*	*08/12/13 19:15*	*1*
p-Terphenyl	*94*		*38 - 148*	*08/12/13 11:42*	*08/12/13 19:15*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX11-S4(2.0)
Date Collected: 08/12/13 09:15
Date Received: 08/12/13 09:45

Lab Sample ID: 720-51571-16
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	33		0.98		mg/Kg		08/12/13 11:42	08/12/13 20:04	1
Motor Oil Range Organics [C24-C36]	76		49		mg/Kg		08/12/13 11:42	08/12/13 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.06*		*0 - 1*	*08/12/13 11:42*	*08/12/13 20:04*	*1*
p-Terphenyl	*79*		*38 - 148*	*08/12/13 11:42*	*08/12/13 20:04*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-142024/1-A
Matrix: Solid
Analysis Batch: 142108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 142024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		08/12/13 11:59	08/13/13 15:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*33 - 120*	*08/12/13 11:59*	*08/13/13 15:01*	*1*
Terphenyl-d14	*105*		*35 - 146*	*08/12/13 11:59*	*08/13/13 15:01*	*1*

Lab Sample ID: LCS 720-142024/2-A
Matrix: Solid
Analysis Batch: 142108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 142024

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			333	213		ug/Kg		64	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*83*		*33 - 120*
Terphenyl-d14	*100*		*35 - 146*

Lab Sample ID: LCSD 720-142024/3-A
Matrix: Solid
Analysis Batch: 142108

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 142024

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			333	223		ug/Kg		67	46 - 120	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*87*		*33 - 120*
Terphenyl-d14	*100*		*35 - 146*

Lab Sample ID: 720-51571-15 MS
Matrix: Solid
Analysis Batch: 142108

Client Sample ID: EX11-S3(2.0)
Prep Type: Total/NA
Prep Batch: 142024

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene	ND		331	222		ug/Kg		67	32 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*33 - 120*
Terphenyl-d14	*86*		*35 - 146*

Lab Sample ID: 720-51571-15 MSD
Matrix: Solid
Analysis Batch: 142108

Client Sample ID: EX11-S3(2.0)
Prep Type: Total/NA
Prep Batch: 142024

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		333	227		ug/Kg		68	32 - 120	2	20

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: 720-51571-15 MSD
Matrix: Solid
Analysis Batch: 142108

Client Sample ID: EX11-S3(2.0)
Prep Type: Total/NA
Prep Batch: 142024

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	83		33 - 120
Terphenyl-d14	89		35 - 146

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-142012/1-A
Matrix: Solid
Analysis Batch: 142003

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 142012

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/12/13 08:45	08/12/13 22:58	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 08:45	08/12/13 22:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.006		0 - 1	08/12/13 08:45	08/12/13 22:58	1
p-Terphenyl	89		38 - 148	08/12/13 08:45	08/12/13 22:58	1

Lab Sample ID: LCS 720-142012/2-A
Matrix: Solid
Analysis Batch: 142003

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 142012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.8	61.7		mg/Kg		74	36 - 112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	97		38 - 148

Lab Sample ID: LCSD 720-142012/3-A
Matrix: Solid
Analysis Batch: 142003

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 142012

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	83.2	57.4		mg/Kg		69	36 - 112	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	93		38 - 148

GC/MS Semi VOA

Prep Batch: 142024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51571-8	EX4-S5(2.0)	Total/NA	Solid	3546	
720-51571-9	EX4-S6(2.0)	Total/NA	Solid	3546	
720-51571-13	EX11-S1(2.0)	Total/NA	Solid	3546	
720-51571-15	EX11-S3(2.0)	Total/NA	Solid	3546	
720-51571-15 MS	EX11-S3(2.0)	Total/NA	Solid	3546	
720-51571-15 MSD	EX11-S3(2.0)	Total/NA	Solid	3546	
LCS 720-142024/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-142024/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-142024/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 142108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51571-8	EX4-S5(2.0)	Total/NA	Solid	8270C SIM	142024
720-51571-9	EX4-S6(2.0)	Total/NA	Solid	8270C SIM	142024
720-51571-13	EX11-S1(2.0)	Total/NA	Solid	8270C SIM	142024
720-51571-15	EX11-S3(2.0)	Total/NA	Solid	8270C SIM	142024
720-51571-15 MS	EX11-S3(2.0)	Total/NA	Solid	8270C SIM	142024
720-51571-15 MSD	EX11-S3(2.0)	Total/NA	Solid	8270C SIM	142024
LCS 720-142024/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	142024
LCSD 720-142024/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	142024
MB 720-142024/1-A	Method Blank	Total/NA	Solid	8270C SIM	142024

GC Semi VOA

Analysis Batch: 142003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51571-4	EX4-S1(3.0)	Silica Gel Cleanup	Solid	8015B	142012
LCS 720-142012/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	142012
LCSD 720-142012/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	142012
MB 720-142012/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	142012

Analysis Batch: 142004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51571-13	EX11-S1(2.0)	Silica Gel Cleanup	Solid	8015B	142012
720-51571-14	EX11-S2(2.0)	Silica Gel Cleanup	Solid	8015B	142012
720-51571-15	EX11-S3(2.0)	Silica Gel Cleanup	Solid	8015B	142012
720-51571-16	EX11-S4(2.0)	Silica Gel Cleanup	Solid	8015B	142012

Prep Batch: 142012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51571-1	EX4-B1(6.0)	Silica Gel Cleanup	Solid	3546	
720-51571-2	EX4-B2(6.0)	Silica Gel Cleanup	Solid	3546	
720-51571-3	EX4-B3(6.0)	Silica Gel Cleanup	Solid	3546	
720-51571-4	EX4-S1(3.0)	Silica Gel Cleanup	Solid	3546	
720-51571-5	EX4-S2(3.0)	Silica Gel Cleanup	Solid	3546	
720-51571-6	EX4-S3(3.0)	Silica Gel Cleanup	Solid	3546	
720-51571-7	EX4-S4(3.0)	Silica Gel Cleanup	Solid	3546	
720-51571-8	EX4-S5(2.0)	Silica Gel Cleanup	Solid	3546	
720-51571-9	EX4-S6(2.0)	Silica Gel Cleanup	Solid	3546	
720-51571-10	EX4-S7(3.0)	Silica Gel Cleanup	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 142012 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51571-11	EX4-S8(3.0)	Silica Gel Cleanup	Solid	3546	
720-51571-12	EX11-B1(4.0)	Silica Gel Cleanup	Solid	3546	
720-51571-13	EX11-S1(2.0)	Silica Gel Cleanup	Solid	3546	
720-51571-14	EX11-S2(2.0)	Silica Gel Cleanup	Solid	3546	
720-51571-15	EX11-S3(2.0)	Silica Gel Cleanup	Solid	3546	
720-51571-16	EX11-S4(2.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-142012/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-142012/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-142012/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 142015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51571-3	EX4-B3(6.0)	Silica Gel Cleanup	Solid	8015B	142012
720-51571-5	EX4-S2(3.0)	Silica Gel Cleanup	Solid	8015B	142012
720-51571-6	EX4-S3(3.0)	Silica Gel Cleanup	Solid	8015B	142012
720-51571-7	EX4-S4(3.0)	Silica Gel Cleanup	Solid	8015B	142012
720-51571-8	EX4-S5(2.0)	Silica Gel Cleanup	Solid	8015B	142012
720-51571-9	EX4-S6(2.0)	Silica Gel Cleanup	Solid	8015B	142012
720-51571-10	EX4-S7(3.0)	Silica Gel Cleanup	Solid	8015B	142012

Analysis Batch: 142016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51571-1	EX4-B1(6.0)	Silica Gel Cleanup	Solid	8015B	142012
720-51571-11	EX4-S8(3.0)	Silica Gel Cleanup	Solid	8015B	142012
720-51571-12	EX11-B1(4.0)	Silica Gel Cleanup	Solid	8015B	142012

Analysis Batch: 142090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51571-2	EX4-B2(6.0)	Silica Gel Cleanup	Solid	8015B	142012

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX4-B1(6.0)

Lab Sample ID: 720-51571-1

Date Collected: 08/12/13 07:49

Matrix: Solid

Date Received: 08/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142012	08/12/13 11:42	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142016	08/12/13 19:20	DCH	TAL PLS

Client Sample ID: EX4-B2(6.0)

Lab Sample ID: 720-51571-2

Date Collected: 08/12/13 07:48

Matrix: Solid

Date Received: 08/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142012	08/12/13 11:42	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	142090	08/13/13 12:47	DCH	TAL PLS

Client Sample ID: EX4-B3(6.0)

Lab Sample ID: 720-51571-3

Date Collected: 08/12/13 07:48

Matrix: Solid

Date Received: 08/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142012	08/12/13 11:42	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	142015	08/13/13 01:12	DCH	TAL PLS

Client Sample ID: EX4-S1(3.0)

Lab Sample ID: 720-51571-4

Date Collected: 08/12/13 07:27

Matrix: Solid

Date Received: 08/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142012	08/12/13 11:42	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142003	08/12/13 18:51	DCH	TAL PLS

Client Sample ID: EX4-S2(3.0)

Lab Sample ID: 720-51571-5

Date Collected: 08/12/13 07:30

Matrix: Solid

Date Received: 08/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142012	08/12/13 11:42	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	142015	08/12/13 21:46	DCH	TAL PLS

Client Sample ID: EX4-S3(3.0)

Lab Sample ID: 720-51571-6

Date Collected: 08/12/13 07:36

Matrix: Solid

Date Received: 08/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142012	08/12/13 11:42	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	142015	08/13/13 00:13	DCH	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX4-S4(3.0)

Lab Sample ID: 720-51571-7

Date Collected: 08/12/13 07:40

Matrix: Solid

Date Received: 08/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142012	08/12/13 11:42	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	142015	08/12/13 19:50	DCH	TAL PLS

Client Sample ID: EX4-S5(2.0)

Lab Sample ID: 720-51571-8

Date Collected: 08/12/13 07:45

Matrix: Solid

Date Received: 08/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			142024	08/12/13 11:59	MRP	TAL PLS
Total/NA	Analysis	8270C SIM		10	142108	08/13/13 16:24	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			142012	08/12/13 11:42	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	142015	08/13/13 00:42	DCH	TAL PLS

Client Sample ID: EX4-S6(2.0)

Lab Sample ID: 720-51571-9

Date Collected: 08/12/13 07:42

Matrix: Solid

Date Received: 08/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			142024	08/12/13 11:59	MRP	TAL PLS
Total/NA	Analysis	8270C SIM		50	142108	08/13/13 16:44	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			142012	08/12/13 11:42	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	142015	08/13/13 01:41	DCH	TAL PLS

Client Sample ID: EX4-S7(3.0)

Lab Sample ID: 720-51571-10

Date Collected: 08/12/13 07:38

Matrix: Solid

Date Received: 08/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142012	08/12/13 11:42	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	142015	08/13/13 02:10	DCH	TAL PLS

Client Sample ID: EX4-S8(3.0)

Lab Sample ID: 720-51571-11

Date Collected: 08/12/13 07:32

Matrix: Solid

Date Received: 08/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142012	08/12/13 11:42	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142016	08/12/13 18:50	DCH	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Client Sample ID: EX11-B1(4.0)

Lab Sample ID: 720-51571-12

Date Collected: 08/12/13 09:20

Matrix: Solid

Date Received: 08/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142012	08/12/13 11:42	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142016	08/12/13 19:50	DCH	TAL PLS

Client Sample ID: EX11-S1(2.0)

Lab Sample ID: 720-51571-13

Date Collected: 08/12/13 09:00

Matrix: Solid

Date Received: 08/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			142024	08/12/13 11:59	MRP	TAL PLS
Total/NA	Analysis	8270C SIM		1	142108	08/13/13 17:05	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			142012	08/12/13 11:42	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142004	08/12/13 19:40	DCH	TAL PLS

Client Sample ID: EX11-S2(2.0)

Lab Sample ID: 720-51571-14

Date Collected: 08/12/13 09:05

Matrix: Solid

Date Received: 08/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142012	08/12/13 11:42	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142004	08/12/13 18:51	DCH	TAL PLS

Client Sample ID: EX11-S3(2.0)

Lab Sample ID: 720-51571-15

Date Collected: 08/12/13 09:10

Matrix: Solid

Date Received: 08/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			142024	08/12/13 11:59	MRP	TAL PLS
Total/NA	Analysis	8270C SIM		1	142108	08/13/13 15:22	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			142012	08/12/13 11:42	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142004	08/12/13 19:15	DCH	TAL PLS

Client Sample ID: EX11-S4(2.0)

Lab Sample ID: 720-51571-16

Date Collected: 08/12/13 09:15

Matrix: Solid

Date Received: 08/12/13 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142012	08/12/13 11:42	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142004	08/12/13 20:04	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51571-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51571-1	EX4-B1(6.0)	Solid	08/12/13 07:49	08/12/13 09:45
720-51571-2	EX4-B2(6.0)	Solid	08/12/13 07:48	08/12/13 09:45
720-51571-3	EX4-B3(6.0)	Solid	08/12/13 07:48	08/12/13 09:45
720-51571-4	EX4-S1(3.0)	Solid	08/12/13 07:27	08/12/13 09:45
720-51571-5	EX4-S2(3.0)	Solid	08/12/13 07:30	08/12/13 09:45
720-51571-6	EX4-S3(3.0)	Solid	08/12/13 07:36	08/12/13 09:45
720-51571-7	EX4-S4(3.0)	Solid	08/12/13 07:40	08/12/13 09:45
720-51571-8	EX4-S5(2.0)	Solid	08/12/13 07:45	08/12/13 09:45
720-51571-9	EX4-S6(2.0)	Solid	08/12/13 07:42	08/12/13 09:45
720-51571-10	EX4-S7(3.0)	Solid	08/12/13 07:38	08/12/13 09:45
720-51571-11	EX4-S8(3.0)	Solid	08/12/13 07:32	08/12/13 09:45
720-51571-12	EX11-B1(4.0)	Solid	08/12/13 09:20	08/12/13 09:45
720-51571-13	EX11-S1(2.0)	Solid	08/12/13 09:00	08/12/13 09:45
720-51571-14	EX11-S2(2.0)	Solid	08/12/13 09:05	08/12/13 09:45
720-51571-15	EX11-S3(2.0)	Solid	08/12/13 09:10	08/12/13 09:45
720-51571-16	EX11-S4(2.0)	Solid	08/12/13 09:15	08/12/13 09:45

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-51571

Reference #: 147860

Date 8/12/13 Page 1 of 2

8/14/2013

Report To

Attn: KRISTIN GUTHRIE
Company: Haley & Aldrich, Inc
Address: 2033 N Main St, Walnut Creek
Email: KGUTHRIE@haleyaldrich.com

Bill To: H&A
Sampled By: JS, BJM
Attn:
Phone: 925-357-7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNAPAH's by ☐ 8270C ☒ 8270C SIM CASE NARRATIVE ONLY	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals. ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
EX4-B1(6.0)	8/12/13	0749	S	ice				X																	1
EX4-B2(6.0)		0748						X																	1
EX4-B3(6.0)		0748						X																	1
EX4-S1(3.0)		0727						X																	1
EX4-S2(3.0)		0730						X																	1
EX4-S3(3.0)		0736						X																	1
EX4-S4(3.0)		0740						X																	1
EX4-S5(2.0)		0745						X		X															1
EX4-S6(2.0)		0742						X		X															1
EX4-S7(3.0)		0738						X																	1

RUSH

Project Info

Project Name/ #: Former Hanson Aggregate Facility
PO#: 39792-002
Credit Card Y/N.

Sample Receipt

of Containers:
Head Space:
Temp: 7.2°C 4/hrs

If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | (1 Day) | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____
8270C SIM – naphthalene ONLY

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time: 0945	Signature / Time	Signature / Time
Printed Name: [illegible] / Date: 8/12/13	Printed Name / Date	Printed Name / Date
Company: Haley & Aldrich, Inc	Company	Company

720-51571 Chain of Custody

1) Received by:	2) Received by:	3) Received by
Signature / Time: 945	Signature / Time	Signature / Time
Printed Name: [illegible] / Date: 8-12-13	Printed Name / Date	Printed Name / Date
Company: TestAmerica	Company	Company

Rev 10/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

TO-51571

Reference #: 147860

Date 8/12/13 Page 2 of 2

8/14/2013

Report To

Attn: KRISTIN GUTHRIE
Company: Haley & Aldrich, Inc
Address: 2033 N Main St, Walnut Creek
Email: KGUTHRIE@haleyaldrich.com
Bill To: H&A
Sampled By: JS, BSM
Attn:
Phone: 925-357-7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM Naphthalene ONLY	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
EX4-S8(3.0)	8/12/13	0732	S	ice				X																	1
EX11-B1(4.0)	8/12/13	0920	S	ice				X																	1
(JS) EX11-B			S																						
EX11-S1(2.0)	8/12/13	0900	S	ice				X		X															1
EX11-S2(2.0)		0905						X																	1
EX11-S3(2.0)		0910						X		X															1
EX11-S4(2.0)		0915						X																	1
											JS 8/12/13														

RUSH

Page 35 of 36

Project Info.

Project Name/ #: Former Hanson Aggregate Facility
PO#: 39792-002
Credit Card Y/N:
If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp.

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | (1 Day) | Other:

Report ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
naphthalene ONLY on 8270C SIM

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by
Signature: [signature] Time: 0945	Signature: Time:	Signature: Time:
Printed Name: Joanna Sears Date: 8/12/13	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich, Inc	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 945	Signature: Time:	Signature: Time:
Printed Name: [signature] Date: 8-12-13	Printed Name: Date:	Printed Name: Date:
Company: [signature]	Company:	Company:

Rev 10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51571-1

Login Number: 51571

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



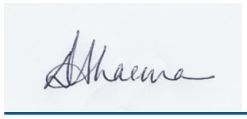
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51588-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie



Authorized for release by:
8/14/2013 12:43:35 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51588-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51588-1

Comments
No additional comments.

Receipt
The samples were received on 8/12/2013 5:56 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7º C.

GC/MS Semi VOA
Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: EX8-S1(1.0) (720-51588-7), EX8-S3(1.0) (720-51588-11). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: TS-S2(2.0) (720-51588-20), (720-51588-1 MS), (720-51588-1 MSD).

Method 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for batch 142068 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: TS-S11(2.0) — Lab Sample ID: 720-51588-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	89		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	290		98		mg/Kg	2		8015B	Silica Gel Cleanup

Client Sample ID: TS-S10(2.0) — Lab Sample ID: 720-51588-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	8.1		0.98		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX8-S2(1) — Lab Sample ID: 720-51588-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	5.2		0.98		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CC-B2(20.0) — Lab Sample ID: 720-51588-4

No Detections.

Client Sample ID: CC-B1(20.0) — Lab Sample ID: 720-51588-5

No Detections.

Client Sample ID: CC-B3(20.0) — Lab Sample ID: 720-51588-6

No Detections.

Client Sample ID: EX8-S1(1.0) — Lab Sample ID: 720-51588-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	9.9		0.98		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX8-S4(1.0) — Lab Sample ID: 720-51588-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	8.7		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX10-S1(3.0) — Lab Sample ID: 720-51588-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.3		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX10-S2(3.0) — Lab Sample ID: 720-51588-10

No Detections.

Client Sample ID: EX8-S3(1.0) — Lab Sample ID: 720-51588-11

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample ID: EX8-S3(1.0) (Continued) — Lab Sample ID: 720-51588-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	5.8		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	49		49		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX8-B1(2.0) — Lab Sample ID: 720-51588-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	5.2		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX10-B1(6.0) — Lab Sample ID: 720-51588-13

No Detections.

Client Sample ID: EX10-S6(3.0) — Lab Sample ID: 720-51588-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	18		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	55		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX10-S5(3.0) — Lab Sample ID: 720-51588-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.1		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX10-B2(6.0) — Lab Sample ID: 720-51588-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	240		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	500		150		mg/Kg	3		8015B	Silica Gel Cleanup

Client Sample ID: EX10-S3(3.0) — Lab Sample ID: 720-51588-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.9		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-S22(1.0) — Lab Sample ID: 720-51588-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	5.1		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-S2(2.0) — Lab Sample ID: 720-51588-20

This Detection Summary does not include radiochemical test results.

Client Sample ID: TS-S2(2.0) (Continued) — Lab Sample ID: 720-51588-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3300		99		mg/Kg	100		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	18000		4900		mg/Kg	100		8015B	Silica Gel Cleanup

Client Sample ID: DC-B1(1.0) — Lab Sample ID: 720-51588-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	8.9		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-S3(2.0) — Lab Sample ID: 720-51588-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	34		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	200		100		mg/Kg	2		8015B	Silica Gel Cleanup

Client Sample ID: TS-S23(2.5) — Lab Sample ID: 720-51588-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	30		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	200		99		mg/Kg	2		8015B	Silica Gel Cleanup

Client Sample ID: TS-S24(2.0) — Lab Sample ID: 720-51588-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	5.3		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-S16(3.5) — Lab Sample ID: 720-51588-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	13		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	79		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-S15(2.5) — Lab Sample ID: 720-51588-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	9.5		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS-S14(2.0) — Lab Sample ID: 720-51588-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	16		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	61		50		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: TS-S11(2.0)
Date Collected: 08/12/13 14:33
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	89		2.0		mg/Kg		08/12/13 20:40	08/14/13 00:20	2
Motor Oil Range Organics [C24-C36]	290		98		mg/Kg		08/12/13 20:40	08/14/13 00:20	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/12/13 20:40*	*08/14/13 00:20*	*2*
p-Terphenyl	*68*		*38 - 148*	*08/12/13 20:40*	*08/14/13 00:20*	*2*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: TS-S10(2.0)
Date Collected: 08/12/13 14:25
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8.1**		0.98		mg/Kg		08/12/13 20:40	08/13/13 19:47	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/12/13 20:40	08/13/13 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*08/12/13 20:40*	*08/13/13 19:47*	*1*
p-Terphenyl	*95*		*38 - 148*	*08/12/13 20:40*	*08/13/13 19:47*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: EX8-S2(1)
Date Collected: 08/12/13 12:05
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.2**		0.98		mg/Kg		08/12/13 20:40	08/13/13 20:11	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/12/13 20:40	08/13/13 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*08/12/13 20:40*	*08/13/13 20:11*	*1*
p-Terphenyl	*92*		*38 - 148*	*08/12/13 20:40*	*08/13/13 20:11*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: CC-B2(20.0)
Date Collected: 08/12/13 13:15
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/12/13 20:40	08/13/13 16:55	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/12/13 20:40	08/13/13 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*08/12/13 20:40*	*08/13/13 16:55*	*1*
p-Terphenyl	*95*		*38 - 148*	*08/12/13 20:40*	*08/13/13 16:55*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: CC-B1(20.0)
Date Collected: 08/12/13 14:35
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/12/13 20:40	08/13/13 18:09	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 20:40	08/13/13 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 1*	*08/12/13 20:40*	*08/13/13 18:09*	*1*
p-Terphenyl	*91*		*38 - 148*	*08/12/13 20:40*	*08/13/13 18:09*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: CC-B3(20.0)
Date Collected: 08/12/13 14:20
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-6
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/12/13 20:40	08/13/13 18:33	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/12/13 20:40	08/13/13 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.0007*		*0 - 1*	*08/12/13 20:40*	*08/13/13 18:33*	*1*
p-Terphenyl	*97*		*38 - 148*	*08/12/13 20:40*	*08/13/13 18:33*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: EX8-S1(1.0)
Date Collected: 08/12/13 12:00
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-7
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		9.9		ug/Kg		08/12/13 19:49	08/13/13 12:28	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*33 - 120*	*08/12/13 19:49*	*08/13/13 12:28*	*2*
Terphenyl-d14	*84*		*35 - 146*	*08/12/13 19:49*	*08/13/13 12:28*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**9.9**		0.98		mg/Kg		08/12/13 20:40	08/13/13 17:44	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/12/13 20:40	08/13/13 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.006*		*0 - 1*	*08/12/13 20:40*	*08/13/13 17:44*	*1*
p-Terphenyl	*78*		*38 - 148*	*08/12/13 20:40*	*08/13/13 17:44*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: EX8-S4(1.0)
Date Collected: 08/12/13 12:15
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-8
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8.7**		0.99		mg/Kg		08/12/13 20:40	08/13/13 19:47	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 20:40	08/13/13 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 1*	*08/12/13 20:40*	*08/13/13 19:47*	*1*
p-Terphenyl	*85*		*38 - 148*	*08/12/13 20:40*	*08/13/13 19:47*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: EX10-S1(3.0)
Date Collected: 08/12/13 09:40
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-9
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.3**		0.99		mg/Kg		08/12/13 20:40	08/13/13 20:36	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/12/13 20:40	08/13/13 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*08/12/13 20:40*	*08/13/13 20:36*	*1*
p-Terphenyl	*85*		*38 - 148*	*08/12/13 20:40*	*08/13/13 20:36*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: EX10-S2(3.0)
Date Collected: 08/12/13 10:40
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-10
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		4.9		ug/Kg		08/12/13 19:49	08/13/13 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*33 - 120*	*08/12/13 19:49*	*08/13/13 12:51*	*1*
Terphenyl-d14	*81*		*35 - 146*	*08/12/13 19:49*	*08/13/13 12:51*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/12/13 20:40	08/13/13 17:20	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 20:40	08/13/13 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*08/12/13 20:40*	*08/13/13 17:20*	*1*
p-Terphenyl	*94*		*38 - 148*	*08/12/13 20:40*	*08/13/13 17:20*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: EX8-S3(1.0)
Date Collected: 08/12/13 12:10
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-11
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		25		ug/Kg		08/12/13 19:49	08/13/13 13:15	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*33 - 120*	*08/12/13 19:49*	*08/13/13 13:15*	*5*
Terphenyl-d14	*87*		*35 - 146*	*08/12/13 19:49*	*08/13/13 13:15*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.8**		0.99		mg/Kg		08/12/13 20:40	08/13/13 19:22	1
Motor Oil Range Organics [C24-C36]	**49**		49		mg/Kg		08/12/13 20:40	08/13/13 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 1*	*08/12/13 20:40*	*08/13/13 19:22*	*1*
p-Terphenyl	*81*		*38 - 148*	*08/12/13 20:40*	*08/13/13 19:22*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: EX8-B1(2.0)
Date Collected: 08/12/13 12:20
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-12
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.2**		1.0		mg/Kg		08/12/13 20:40	08/13/13 17:20	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 20:40	08/13/13 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.005*		*0 - 1*	*08/12/13 20:40*	*08/13/13 17:20*	*1*
p-Terphenyl	*102*		*38 - 148*	*08/12/13 20:40*	*08/13/13 17:20*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: EX10-B1(6.0)
Date Collected: 08/12/13 10:45
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-13
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/12/13 20:40	08/13/13 17:44	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/12/13 20:40	08/13/13 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*08/12/13 20:40*	*08/13/13 17:44*	*1*
p-Terphenyl	*84*		*38 - 148*	*08/12/13 20:40*	*08/13/13 17:44*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: EX10-S6(3.0)
Date Collected: 08/12/13 09:30
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-14
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	18		0.99		mg/Kg		08/12/13 20:40	08/13/13 18:57	1
Motor Oil Range Organics [C24-C36]	55		50		mg/Kg		08/12/13 20:40	08/13/13 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*08/12/13 20:40*	*08/13/13 18:57*	*1*
p-Terphenyl	*73*		*38 - 148*	*08/12/13 20:40*	*08/13/13 18:57*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: EX10-S5(3.0)
Date Collected: 08/12/13 10:15
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-16
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		08/12/13 19:49	08/13/13 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*33 - 120*	*08/12/13 19:49*	*08/13/13 13:38*	*1*
Terphenyl-d14	*80*		*35 - 146*	*08/12/13 19:49*	*08/13/13 13:38*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.1**		0.99		mg/Kg		08/12/13 20:40	08/13/13 18:09	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/12/13 20:40	08/13/13 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 1*	*08/12/13 20:40*	*08/13/13 18:09*	*1*
p-Terphenyl	*90*		*38 - 148*	*08/12/13 20:40*	*08/13/13 18:09*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: EX10-B2(6.0)
Date Collected: 08/12/13 09:55
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-17
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	240		3.0		mg/Kg		08/12/13 20:40	08/13/13 21:00	3
Motor Oil Range Organics [C24-C36]	500		150		mg/Kg		08/12/13 20:40	08/13/13 21:00	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*08/12/13 20:40*	*08/13/13 21:00*	*3*
p-Terphenyl	*84*		*38 - 148*	*08/12/13 20:40*	*08/13/13 21:00*	*3*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: EX10-S3(3.0)
Date Collected: 08/12/13 10:50
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-18
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.9**		0.99		mg/Kg		08/12/13 20:40	08/13/13 19:22	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/12/13 20:40	08/13/13 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*08/12/13 20:40*	*08/13/13 19:22*	*1*
p-Terphenyl	*91*		*38 - 148*	*08/12/13 20:40*	*08/13/13 19:22*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: TS-S22(1.0)
Date Collected: 08/12/13 15:01
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-19
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.1**		0.99		mg/Kg		08/12/13 20:40	08/13/13 20:11	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/12/13 20:40	08/13/13 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.007*		*0 - 1*	*08/12/13 20:40*	*08/13/13 20:11*	*1*
p-Terphenyl	*96*		*38 - 148*	*08/12/13 20:40*	*08/13/13 20:11*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: TS-S2(2.0)
Date Collected: 08/12/13 14:57
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-20
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3300		99		mg/Kg		08/12/13 20:40	08/13/13 20:53	100
Motor Oil Range Organics [C24-C36]	18000		4900		mg/Kg		08/12/13 20:40	08/13/13 20:53	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/12/13 20:40*	*08/13/13 20:53*	*100*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/12/13 20:40*	*08/13/13 20:53*	*100*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: DC-B1(1.0)
Date Collected: 08/12/13 15:23
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-21
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		08/12/13 19:49	08/13/13 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*33 - 120*	*08/12/13 19:49*	*08/13/13 14:01*	*1*
Terphenyl-d14	*82*		*35 - 146*	*08/12/13 19:49*	*08/13/13 14:01*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8.9**		0.99		mg/Kg		08/12/13 20:40	08/13/13 19:25	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 20:40	08/13/13 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.03*		*0 - 1*	*08/12/13 20:40*	*08/13/13 19:25*	*1*
p-Terphenyl	*94*		*38 - 148*	*08/12/13 20:40*	*08/13/13 19:25*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: TS-S3(2.0)
Date Collected: 08/12/13 15:53
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-22
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	34		2.0		mg/Kg		08/12/13 19:55	08/13/13 19:54	2
Motor Oil Range Organics [C24-C36]	200		100		mg/Kg		08/12/13 19:55	08/13/13 19:54	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/12/13 19:55*	*08/13/13 19:54*	*2*
p-Terphenyl	*59*		*38 - 148*	*08/12/13 19:55*	*08/13/13 19:54*	*2*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: TS-S23(2.5)
Date Collected: 08/12/13 15:45
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-23
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	30		2.0		mg/Kg		08/12/13 19:55	08/13/13 21:22	2
Motor Oil Range Organics [C24-C36]	200		99		mg/Kg		08/12/13 19:55	08/13/13 21:22	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.05*		*0 - 1*	*08/12/13 19:55*	*08/13/13 21:22*	*2*
p-Terphenyl	*76*		*38 - 148*	*08/12/13 19:55*	*08/13/13 21:22*	*2*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: TS-S24(2.0)
Date Collected: 08/12/13 16:06
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-24
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.3**		1.0		mg/Kg		08/12/13 19:55	08/13/13 15:30	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 19:55	08/13/13 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/12/13 19:55*	*08/13/13 15:30*	*1*
p-Terphenyl	*89*		*38 - 148*	*08/12/13 19:55*	*08/13/13 15:30*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: TS-S16(3.5)
Date Collected: 08/12/13 15:39
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-25
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	13		1.0		mg/Kg		08/12/13 19:55	08/13/13 15:59	1
Motor Oil Range Organics [C24-C36]	79		50		mg/Kg		08/12/13 19:55	08/13/13 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.09*		*0 - 1*	*08/12/13 19:55*	*08/13/13 15:59*	*1*
p-Terphenyl	*76*		*38 - 148*	*08/12/13 19:55*	*08/13/13 15:59*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: TS-S15(2.5)
Date Collected: 08/12/13 15:33
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-26
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**9.5**		0.99		mg/Kg		08/12/13 19:55	08/13/13 16:28	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 19:55	08/13/13 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/12/13 19:55*	*08/13/13 16:28*	*1*
p-Terphenyl	*77*		*38 - 148*	*08/12/13 19:55*	*08/13/13 16:28*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Client Sample ID: TS-S14(2.0)
Date Collected: 08/12/13 15:30
Date Received: 08/12/13 17:56

Lab Sample ID: 720-51588-27
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	16		1.0		mg/Kg		08/12/13 19:55	08/13/13 16:58	1
Motor Oil Range Organics [C24-C36]	61		50		mg/Kg		08/12/13 19:55	08/13/13 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/12/13 19:55*	*08/13/13 16:58*	*1*
p-Terphenyl	*77*		*38 - 148*	*08/12/13 19:55*	*08/13/13 16:58*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-142073/1-A
Matrix: Solid
Analysis Batch: 142107

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 142073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		08/12/13 19:49	08/13/13 12:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*33 - 120*	*08/12/13 19:49*	*08/13/13 12:05*	*1*
Terphenyl-d14	*89*		*35 - 146*	*08/12/13 19:49*	*08/13/13 12:05*	*1*

Lab Sample ID: LCS 720-142073/2-A
Matrix: Solid
Analysis Batch: 142107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 142073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	332	189		ug/Kg		57	46 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*63*		*33 - 120*
Terphenyl-d14	*93*		*35 - 146*

Lab Sample ID: LCSD 720-142073/3-A
Matrix: Solid
Analysis Batch: 142107

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 142073

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	331	213		ug/Kg		64	46 - 120	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*33 - 120*
Terphenyl-d14	*90*		*35 - 146*

Lab Sample ID: 720-51588-7 MS
Matrix: Solid
Analysis Batch: 142107

Client Sample ID: EX8-S1(1.0)
Prep Type: Total/NA
Prep Batch: 142073

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		329	204		ug/Kg		62	32 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*33 - 120*
Terphenyl-d14	*84*		*35 - 146*

Lab Sample ID: 720-51588-7 MSD
Matrix: Solid
Analysis Batch: 142107

Client Sample ID: EX8-S1(1.0)
Prep Type: Total/NA
Prep Batch: 142073

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		333	169		ug/Kg		51	32 - 120	19	20

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: 720-51588-7 MSD
Matrix: Solid
Analysis Batch: 142107

Client Sample ID: EX8-S1(1.0)
Prep Type: Total/NA
Prep Batch: 142073

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*63*		*33 - 120*
Terphenyl-d14	*85*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-142068/1-A
Matrix: Solid
Analysis Batch: 142092

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 142068

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/12/13 20:40	08/13/13 23:48	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/12/13 20:40	08/13/13 23:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.007*		*0 - 1*	*08/12/13 20:40*	*08/13/13 23:48*	*1*
p-Terphenyl	*106*		*38 - 148*	*08/12/13 20:40*	*08/13/13 23:48*	*1*

Lab Sample ID: LCS 720-142068/2-A
Matrix: Solid
Analysis Batch: 142092

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 142068

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.2	79.4		mg/Kg		97	36 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*103*		*38 - 148*

Lab Sample ID: LCSD 720-142068/3-A
Matrix: Solid
Analysis Batch: 142092

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 142068

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	82.1	71.3		mg/Kg		87	36 - 112	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*104*		*38 - 148*

Lab Sample ID: 720-51588-1 MS
Matrix: Solid
Analysis Batch: 142090

Client Sample ID: TS-S11(2.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 142068

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	89		82.1	85.8	F	mg/Kg		-4	50 - 150

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-51588-1 MS
Matrix: Solid
Analysis Batch: 142090

Client Sample ID: TS-S11(2.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 142068

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	*0*	*X D*	*38 - 148*

Lab Sample ID: 720-51588-1 MSD
Matrix: Solid
Analysis Batch: 142090

Client Sample ID: TS-S11(2.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 142068

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	89		82.1	108	F	mg/Kg		23	50 - 150	23	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	*0*	*X D*	*38 - 148*

Lab Sample ID: MB 720-142075/1-A
Matrix: Solid
Analysis Batch: 142092

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 142075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/12/13 19:55	08/13/13 21:51	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/12/13 19:55	08/13/13 21:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	*0.008*		*0 - 1*	*08/12/13 19:55*	*08/13/13 21:51*	*1*
p-Terphenyl	*110*		*38 - 148*	*08/12/13 19:55*	*08/13/13 21:51*	*1*

Lab Sample ID: LCS 720-142075/2-A
Matrix: Solid
Analysis Batch: 142092

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 142075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.3	78.9		mg/Kg		96	36 - 112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*107*		*38 - 148*

Lab Sample ID: LCSD 720-142075/3-A
Matrix: Solid
Analysis Batch: 142092

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 142075

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	82.9	72.1		mg/Kg		87	36 - 112	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	*104*		*38 - 148*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-51588-22 MS
Matrix: Solid
Analysis Batch: 142092

Client Sample ID: TS-S3(2.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 142075

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	34		82.4	161	F	mg/Kg		154	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*38 - 148*

Lab Sample ID: 720-51588-22 MSD
Matrix: Solid
Analysis Batch: 142092

Client Sample ID: TS-S3(2.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 142075

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	34		83.2	127		mg/Kg		112	50 - 150	24	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*38 - 148*

GC/MS Semi VOA

Prep Batch: 142073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51588-7	EX8-S1(1.0)	Total/NA	Solid	3546	
720-51588-7 MS	EX8-S1(1.0)	Total/NA	Solid	3546	
720-51588-7 MSD	EX8-S1(1.0)	Total/NA	Solid	3546	
720-51588-10	EX10-S2(3.0)	Total/NA	Solid	3546	
720-51588-11	EX8-S3(1.0)	Total/NA	Solid	3546	
720-51588-16	EX10-S5(3.0)	Total/NA	Solid	3546	
720-51588-21	DC-B1(1.0)	Total/NA	Solid	3546	
LCS 720-142073/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-142073/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-142073/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 142107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51588-7	EX8-S1(1.0)	Total/NA	Solid	8270C SIM	142073
720-51588-7 MS	EX8-S1(1.0)	Total/NA	Solid	8270C SIM	142073
720-51588-7 MSD	EX8-S1(1.0)	Total/NA	Solid	8270C SIM	142073
720-51588-10	EX10-S2(3.0)	Total/NA	Solid	8270C SIM	142073
720-51588-11	EX8-S3(1.0)	Total/NA	Solid	8270C SIM	142073
720-51588-16	EX10-S5(3.0)	Total/NA	Solid	8270C SIM	142073
720-51588-21	DC-B1(1.0)	Total/NA	Solid	8270C SIM	142073
LCS 720-142073/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	142073
LCSD 720-142073/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	142073
MB 720-142073/1-A	Method Blank	Total/NA	Solid	8270C SIM	142073

GC Semi VOA

Prep Batch: 142068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51588-1	TS-S11(2.0)	Silica Gel Cleanup	Solid	3546	
720-51588-1 MS	TS-S11(2.0)	Silica Gel Cleanup	Solid	3546	
720-51588-1 MSD	TS-S11(2.0)	Silica Gel Cleanup	Solid	3546	
720-51588-2	TS-S10(2.0)	Silica Gel Cleanup	Solid	3546	
720-51588-3	EX8-S2(1)	Silica Gel Cleanup	Solid	3546	
720-51588-4	CC-B2(20.0)	Silica Gel Cleanup	Solid	3546	
720-51588-5	CC-B1(20.0)	Silica Gel Cleanup	Solid	3546	
720-51588-6	CC-B3(20.0)	Silica Gel Cleanup	Solid	3546	
720-51588-7	EX8-S1(1.0)	Silica Gel Cleanup	Solid	3546	
720-51588-8	EX8-S4(1.0)	Silica Gel Cleanup	Solid	3546	
720-51588-9	EX10-S1(3.0)	Silica Gel Cleanup	Solid	3546	
720-51588-10	EX10-S2(3.0)	Silica Gel Cleanup	Solid	3546	
720-51588-11	EX8-S3(1.0)	Silica Gel Cleanup	Solid	3546	
720-51588-12	EX8-B1(2.0)	Silica Gel Cleanup	Solid	3546	
720-51588-13	EX10-B1(6.0)	Silica Gel Cleanup	Solid	3546	
720-51588-14	EX10-S6(3.0)	Silica Gel Cleanup	Solid	3546	
720-51588-16	EX10-S5(3.0)	Silica Gel Cleanup	Solid	3546	
720-51588-17	EX10-B2(6.0)	Silica Gel Cleanup	Solid	3546	
720-51588-18	EX10-S3(3.0)	Silica Gel Cleanup	Solid	3546	
720-51588-19	TS-S22(1.0)	Silica Gel Cleanup	Solid	3546	
720-51588-20	TS-S2(2.0)	Silica Gel Cleanup	Solid	3546	
720-51588-21	DC-B1(1.0)	Silica Gel Cleanup	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 142068 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-142068/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-142068/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-142068/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Prep Batch: 142075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51588-22	TS-S3(2.0)	Silica Gel Cleanup	Solid	3546	
720-51588-22 MS	TS-S3(2.0)	Silica Gel Cleanup	Solid	3546	
720-51588-22 MSD	TS-S3(2.0)	Silica Gel Cleanup	Solid	3546	
720-51588-23	TS-S23(2.5)	Silica Gel Cleanup	Solid	3546	
720-51588-24	TS-S24(2.0)	Silica Gel Cleanup	Solid	3546	
720-51588-25	TS-S16(3.5)	Silica Gel Cleanup	Solid	3546	
720-51588-26	TS-S15(2.5)	Silica Gel Cleanup	Solid	3546	
720-51588-27	TS-S14(2.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-142075/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-142075/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-142075/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 142090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51588-1	TS-S11(2.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-1 MS	TS-S11(2.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-1 MSD	TS-S11(2.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-7	EX8-S1(1.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-8	EX8-S4(1.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-11	EX8-S3(1.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-12	EX8-B1(2.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-16	EX10-S5(3.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-19	TS-S22(1.0)	Silica Gel Cleanup	Solid	8015B	142068

Analysis Batch: 142091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51588-2	TS-S10(2.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-3	EX8-S2(1)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-4	CC-B2(20.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-5	CC-B1(20.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-6	CC-B3(20.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-9	EX10-S1(3.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-10	EX10-S2(3.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-13	EX10-B1(6.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-14	EX10-S6(3.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-17	EX10-B2(6.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-18	EX10-S3(3.0)	Silica Gel Cleanup	Solid	8015B	142068

Analysis Batch: 142092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51588-22	TS-S3(2.0)	Silica Gel Cleanup	Solid	8015B	142075
720-51588-22 MS	TS-S3(2.0)	Silica Gel Cleanup	Solid	8015B	142075
720-51588-22 MSD	TS-S3(2.0)	Silica Gel Cleanup	Solid	8015B	142075
720-51588-24	TS-S24(2.0)	Silica Gel Cleanup	Solid	8015B	142075
720-51588-25	TS-S16(3.5)	Silica Gel Cleanup	Solid	8015B	142075

GC Semi VOA (Continued)

Analysis Batch: 142092 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51588-26	TS-S15(2.5)	Silica Gel Cleanup	Solid	8015B	142075
720-51588-27	TS-S14(2.0)	Silica Gel Cleanup	Solid	8015B	142075
LCS 720-142068/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	142068
LCS 720-142075/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	142075
LCSD 720-142068/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	142068
LCSD 720-142075/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	142075
MB 720-142068/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	142068
MB 720-142075/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	142075

Analysis Batch: 142093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51588-20	TS-S2(2.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-21	DC-B1(1.0)	Silica Gel Cleanup	Solid	8015B	142068
720-51588-23	TS-S23(2.5)	Silica Gel Cleanup	Solid	8015B	142075

Client Sample ID: TS-S11(2.0)

Lab Sample ID: 720-51588-1

Date Collected: 08/12/13 14:33

Matrix: Solid

Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	142090	08/14/13 00:20	DCH	TAL PLS

Client Sample ID: TS-S10(2.0)

Lab Sample ID: 720-51588-2

Date Collected: 08/12/13 14:25

Matrix: Solid

Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142091	08/13/13 19:47	DCH	TAL PLS

Client Sample ID: EX8-S2(1)

Lab Sample ID: 720-51588-3

Date Collected: 08/12/13 12:05

Matrix: Solid

Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142091	08/13/13 20:11	DCH	TAL PLS

Client Sample ID: CC-B2(20.0)

Lab Sample ID: 720-51588-4

Date Collected: 08/12/13 13:15

Matrix: Solid

Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142091	08/13/13 16:55	DCH	TAL PLS

Client Sample ID: CC-B1(20.0)

Lab Sample ID: 720-51588-5

Date Collected: 08/12/13 14:35

Matrix: Solid

Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142091	08/13/13 18:09	DCH	TAL PLS

Client Sample ID: CC-B3(20.0)

Lab Sample ID: 720-51588-6

Date Collected: 08/12/13 14:20

Matrix: Solid

Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142091	08/13/13 18:33	DCH	TAL PLS

Client Sample ID: EX8-S1(1.0)

Lab Sample ID: 720-51588-7

Date Collected: 08/12/13 12:00

Matrix: Solid

Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			142073	08/12/13 19:49	DBT	TAL PLS
Total/NA	Analysis	8270C SIM		2	142107	08/13/13 12:28	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142090	08/13/13 17:44	DCH	TAL PLS

Client Sample ID: EX8-S4(1.0)

Lab Sample ID: 720-51588-8

Date Collected: 08/12/13 12:15

Matrix: Solid

Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142090	08/13/13 19:47	DCH	TAL PLS

Client Sample ID: EX10-S1(3.0)

Lab Sample ID: 720-51588-9

Date Collected: 08/12/13 09:40

Matrix: Solid

Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142091	08/13/13 20:36	DCH	TAL PLS

Client Sample ID: EX10-S2(3.0)

Lab Sample ID: 720-51588-10

Date Collected: 08/12/13 10:40

Matrix: Solid

Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			142073	08/12/13 19:49	DBT	TAL PLS
Total/NA	Analysis	8270C SIM		1	142107	08/13/13 12:51	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142091	08/13/13 17:20	DCH	TAL PLS

Client Sample ID: EX8-S3(1.0)

Lab Sample ID: 720-51588-11

Date Collected: 08/12/13 12:10

Matrix: Solid

Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			142073	08/12/13 19:49	DBT	TAL PLS
Total/NA	Analysis	8270C SIM		5	142107	08/13/13 13:15	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142090	08/13/13 19:22	DCH	TAL PLS

Client Sample ID: EX8-B1(2.0) — **Lab Sample ID: 720-51588-12**
Date Collected: 08/12/13 12:20 — **Matrix: Solid**
Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142090	08/13/13 17:20	DCH	TAL PLS

Client Sample ID: EX10-B1(6.0) — **Lab Sample ID: 720-51588-13**
Date Collected: 08/12/13 10:45 — **Matrix: Solid**
Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142091	08/13/13 17:44	DCH	TAL PLS

Client Sample ID: EX10-S6(3.0) — **Lab Sample ID: 720-51588-14**
Date Collected: 08/12/13 09:30 — **Matrix: Solid**
Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142091	08/13/13 18:57	DCH	TAL PLS

Client Sample ID: EX10-S5(3.0) — **Lab Sample ID: 720-51588-16**
Date Collected: 08/12/13 10:15 — **Matrix: Solid**
Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			142073	08/12/13 19:49	DBT	TAL PLS
Total/NA	Analysis	8270C SIM		1	142107	08/13/13 13:38	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142090	08/13/13 18:09	DCH	TAL PLS

Client Sample ID: EX10-B2(6.0) — **Lab Sample ID: 720-51588-17**
Date Collected: 08/12/13 09:55 — **Matrix: Solid**
Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	142091	08/13/13 21:00	DCH	TAL PLS

Client Sample ID: EX10-S3(3.0) — **Lab Sample ID: 720-51588-18**
Date Collected: 08/12/13 10:50 — **Matrix: Solid**
Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS

Client Sample ID: EX10-S3(3.0) — **Lab Sample ID: 720-51588-18**
Date Collected: 08/12/13 10:50 — **Matrix: Solid**
Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Analysis	8015B		1	142091	08/13/13 19:22	DCH	TAL PLS

Client Sample ID: TS-S22(1.0) — **Lab Sample ID: 720-51588-19**
Date Collected: 08/12/13 15:01 — **Matrix: Solid**
Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142090	08/13/13 20:11	DCH	TAL PLS

Client Sample ID: TS-S2(2.0) — **Lab Sample ID: 720-51588-20**
Date Collected: 08/12/13 14:57 — **Matrix: Solid**
Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		100	142093	08/13/13 20:53	DCH	TAL PLS

Client Sample ID: DC-B1(1.0) — **Lab Sample ID: 720-51588-21**
Date Collected: 08/12/13 15:23 — **Matrix: Solid**
Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			142073	08/12/13 19:49	DBT	TAL PLS
Total/NA	Analysis	8270C SIM		1	142107	08/13/13 14:01	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			142068	08/12/13 20:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142093	08/13/13 19:25	DCH	TAL PLS

Client Sample ID: TS-S3(2.0) — **Lab Sample ID: 720-51588-22**
Date Collected: 08/12/13 15:53 — **Matrix: Solid**
Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142075	08/12/13 19:55	DBT	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	142092	08/13/13 19:54	DCH	TAL PLS

Client Sample ID: TS-S23(2.5) — **Lab Sample ID: 720-51588-23**
Date Collected: 08/12/13 15:45 — **Matrix: Solid**
Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142075	08/12/13 19:55	DBT	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	142093	08/13/13 21:22	DCH	TAL PLS

Client Sample ID: TS-S24(2.0)

Lab Sample ID: 720-51588-24

Date Collected: 08/12/13 16:06

Matrix: Solid

Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142075	08/12/13 19:55	DBT	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142092	08/13/13 15:30	DCH	TAL PLS

Client Sample ID: TS-S16(3.5)

Lab Sample ID: 720-51588-25

Date Collected: 08/12/13 15:39

Matrix: Solid

Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142075	08/12/13 19:55	DBT	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142092	08/13/13 15:59	DCH	TAL PLS

Client Sample ID: TS-S15(2.5)

Lab Sample ID: 720-51588-26

Date Collected: 08/12/13 15:33

Matrix: Solid

Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142075	08/12/13 19:55	DBT	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142092	08/13/13 16:28	DCH	TAL PLS

Client Sample ID: TS-S14(2.0)

Lab Sample ID: 720-51588-27

Date Collected: 08/12/13 15:30

Matrix: Solid

Date Received: 08/12/13 17:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142075	08/12/13 19:55	DBT	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142092	08/13/13 16:58	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51588-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51588-1	TS-S11(2.0)	Solid	08/12/13 14:33	08/12/13 17:56
720-51588-2	TS-S10(2.0)	Solid	08/12/13 14:25	08/12/13 17:56
720-51588-3	EX8-S2(1)	Solid	08/12/13 12:05	08/12/13 17:56
720-51588-4	CC-B2(20.0)	Solid	08/12/13 13:15	08/12/13 17:56
720-51588-5	CC-B1(20.0)	Solid	08/12/13 14:35	08/12/13 17:56
720-51588-6	CC-B3(20.0)	Solid	08/12/13 14:20	08/12/13 17:56
720-51588-7	EX8-S1(1.0)	Solid	08/12/13 12:00	08/12/13 17:56
720-51588-8	EX8-S4(1.0)	Solid	08/12/13 12:15	08/12/13 17:56
720-51588-9	EX10-S1(3.0)	Solid	08/12/13 09:40	08/12/13 17:56
720-51588-10	EX10-S2(3.0)	Solid	08/12/13 10:40	08/12/13 17:56
720-51588-11	EX8-S3(1.0)	Solid	08/12/13 12:10	08/12/13 17:56
720-51588-12	EX8-B1(2.0)	Solid	08/12/13 12:20	08/12/13 17:56
720-51588-13	EX10-B1(6.0)	Solid	08/12/13 10:45	08/12/13 17:56
720-51588-14	EX10-S6(3.0)	Solid	08/12/13 09:30	08/12/13 17:56
720-51588-16	EX10-S5(3.0)	Solid	08/12/13 10:15	08/12/13 17:56
720-51588-17	EX10-B2(6.0)	Solid	08/12/13 09:55	08/12/13 17:56
720-51588-18	EX10-S3(3.0)	Solid	08/12/13 10:50	08/12/13 17:56
720-51588-19	TS-S22(1.0)	Solid	08/12/13 15:01	08/12/13 17:56
720-51588-20	TS-S2(2.0)	Solid	08/12/13 14:57	08/12/13 17:56
720-51588-21	DC-B1(1.0)	Solid	08/12/13 15:23	08/12/13 17:56
720-51588-22	TS-S3(2.0)	Solid	08/12/13 15:53	08/12/13 17:56
720-51588-23	TS-S23(2.5)	Solid	08/12/13 15:45	08/12/13 17:56
720-51588-24	TS-S24(2.0)	Solid	08/12/13 16:06	08/12/13 17:56
720-51588-25	TS-S16(3.5)	Solid	08/12/13 15:39	08/12/13 17:56
720-51588-26	TS-S15(2.5)	Solid	08/12/13 15:33	08/12/13 17:56
720-51588-27	TS-S14(2.0)	Solid	08/12/13 15:30	08/12/13 17:56

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone (925) 484-1919 • Fax (925) 600-3002

Reference #: 147872

720-51588

Date 8/12/13 Page 1 of 3

Report To

Attn. Kristin Guthrie
Company Haley & Aldrich, Inc.
Address 2033 North Main St., Suite 309 Walnut Creek, CA
Email Kguthrie@haleyaldrich.com
Bill To. Haley & Aldrich
Sampled By: JGebik, B. Mulholland
Attn. Accounts Payable
Phone: 926-949-1017

Analysis Request

Sample ID	Date	Time	Mat'l	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Diesel ☒ Motor Oil ☐ Other ___ (3630c) Silica Gel	SemiVolatile Organics GC/MS ☐ EPA 8270C PNA/PAH's by ☐ 8270C ☒ 8270C SIM (Naphthalene only)	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other. ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS) ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions . ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
TS-S11 (2.0)	8/12/13	1433	S	unp.				X																	1
TS-S10 (2.0)		1425						X																	1
EX8-B2 (1)		1205						X																	1
CC-B2 (20.0)		1316						X																	1
CC-B1 (20.0)		1435						X																	1
CC-B3 (20.0)		1420						X																	1
EX8-S1-(1.0)		1200						X	X																1
EX8-S9 (1.0)		1215						X																	1
EX10-S1 (3.0)		0940						X																	1
EX10-S2 (3.0)		1040						X	X																1

RUSH

Project Info

Project Name/ #: Former Hanson Aggregate Facility
PO#. # 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers.
Head Space:
Temp: 1.7°C

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | (1 Day) | Other

Report. ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID
8270C SIM - naphthalene ONLY

See Terms and Conditions on reverse

1) Relinquished by: Joanna Sebik 1756 / 1536
Signature Time
Joanna Sebik 8/12/13
Printed Name Date
Haley & Aldrich
Company

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by:
Signature Time
Printed Name Date
Company

1) Received by: Joan Mulholland 1756
Signature Time
Mulholland 8-12-13
Printed Name Date
Company

2) Receiv
Signature
Printed Name Date
Company

720-51588 Chain of Custody

ed by:
Time
Printed Name Date
Company

Rev.10/2012

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8/14/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-6002

720-51588

Reference #: 147872

Date 8/12/13 Page 2 of 3

Report To

Attn: Kristen Guthrie
Company: Haley & Aldrich, Inc.
Address: 2033 North Main St., Suite 309, Walnut Creek, CA
Email: Kguthrie@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: J. Sobik, B. Mulholland
Attn: Accounts Payable
Phone: 925-949-1019

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ (340.5) ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☒ 8270C SIM (2-methylnaphthalene only)	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS)	W E T (STLC) ☐ W.E.T (DI) ☐ TCLP ☐	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Place samples on "Hold" pending request for analysis		Number of Containers
EX8-S3-(1.0) ✓	8/12/13	1210	S	unp.				X		X																1
EX8-B2(2.0) ✓		1220						X																		1
EX10-B2(6.0) ✓		1095						X																		1
EX10-S6(3.0) ✓		0930						X																		1
EX10-S4(3.0) (hold)		1105						X																	X	1
EX10-S5(3.0) ✓		1015						X		X																1
EX10-B2(6.0) ✓		0955						X																		1
EX10-S3(3.0) ✓		1050						X																		1
TS-B22(1.0) ✓		1501						X																		1
TS-S2 (2.0) ✓		1457						X																		1

RUSH

Page 90 of 90

Project Info

Project Name/ #: Former Hanson Aggregate Facility
PO#: #39772
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 1.7°

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | (1 Day) | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID
8270C SIM - naphthalene only

8/14/2013

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1556	Signature: Time:	Signature: Time:
Printed Name: JOANNA SOBIK Date: 8/12/13	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1756	Signature: Time:	Signature: Time:
Printed Name: K Mulley Date: 8-12-13	Printed Name: Date:	Printed Name: Date:
Company: [signature]	Company:	Company:

Rev. 10/2012

147872

CHAIN OF CUSTODY RECORD

720-51588

HALEY & ALDRICH

Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1402

Phone 617) 886-7400
Fax .617) 886-7600

H&A FILE NO.	39792	LABORATORY	Test America
PROJECT NAME	Former Hanson Aggregate Facility	ADDRESS	1220 Quarry Lane
H&A CONTACT	Kristen Guthrie	CONTACT	Dimple Sharma
DELIVERY DATE	8/12/13		
TURNAROUND TIME	1 day !!		
PROJECT MANAGER	Kristen Guthrie		

Sample No.	Date	Time	Depth	Type	Analysis Requested: VOA	ABNs PAH only	MCP Metals	Pesticides PCBs	VPH Full Suite C-ranges only	EPH Full Suite C-ranges only	TPH (specify) mg/kg	TCLP (specify)	Reactivity Ignitability Corrosivity	Naphthalene (Carbon Steel)		Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
DC-B1(1.0)	8/12/13	1523	1.0	SO:1							X			X		1	Laboratory to use applicable DEP CAM methods, ~~unless otherwise directed.~~ JS
TS-S3(2.0)		1553	2.0								X					1	
TS-S23(2.5)		1545	2.5								X					1	
TS-S24(2.0)		1606	2.0								X					1	
TS-S16(3.5)		1539	3.5								X					1	
TS-S15(2.5)		1533	2.5								X					1	
TS-S14(2.0)		1530	2.0								X					1	

JS 8/12/13

Sampled and Relinquished by	Received by
Sign	Sign
Print JOANNA SEBIK	Print
Firm Haley & Aldrich	Firm
Date 8/12/13 Time ~~1750~~ 1756	Date 8-12-13 Time 1756
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID

RUSH

VOA Vial	
Amber Glass	
Plastic Bottle	
Preservative	
Volume	

SOLID

VOA Vial	
Amber Glass	
Clear Glass	X
Preservative	A
Volume	4oz.

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Water/NaHSO4 (circle)

Sampling Comments

Evidence samples were tampered with? YES NO

If YES, please explain in section below.

1.7c

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate. Laboratory should (specify if applicable) _____ analyz

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD - Haley & Aldrich Contact

Form 3003

APRIL 2004

8/14/2013

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51588-1

Login Number: 51588

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



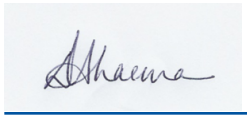
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51599-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie



Authorized for release by:
8/15/2013 5:30:07 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51599-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51599-1

Comments
No additional comments.

Receipt
The samples were received on 8/13/2013 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7º C.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: EX7-B1(4.0) (720-51599-5), EX7-S2(2.0) (720-51599-2), (720-51599-1 MS), (720-51599-1 MSD), EX7-S1(2.0) (720-51599-1).

Method 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for batch 142160 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-1

Client Sample ID: EX7-S1(2.0) — Lab Sample ID: 720-51599-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	480		9.8		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1400		490		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: EX7-S2(2.0) — Lab Sample ID: 720-51599-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	740		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	3100		990		mg/Kg	20		8015B	Silica Gel Cleanup

Client Sample ID: EX7-S3(2.0) — Lab Sample ID: 720-51599-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	17		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	57		49		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX7-S4(2.0) — Lab Sample ID: 720-51599-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.1		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX7-B1(4.0) — Lab Sample ID: 720-51599-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	250		4.9		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	860		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: COMPOSITE-BP2 — Lab Sample ID: 720-51599-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.2		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-1

Client Sample ID: EX7-S1(2.0)
Date Collected: 08/13/13 10:05
Date Received: 08/13/13 15:00

Lab Sample ID: 720-51599-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	480		9.8		mg/Kg		08/13/13 21:21	08/14/13 19:02	10
Motor Oil Range Organics [C24-C36]	1400		490		mg/Kg		08/13/13 21:21	08/14/13 19:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/13/13 21:21*	*08/14/13 19:02*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/13/13 21:21*	*08/14/13 19:02*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-1

Client Sample ID: EX7-S2(2.0)
Date Collected: 08/13/13 10:10
Date Received: 08/13/13 15:00

Lab Sample ID: 720-51599-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	740		20		mg/Kg		08/13/13 21:21	08/14/13 19:02	20
Motor Oil Range Organics [C24-C36]	3100		990		mg/Kg		08/13/13 21:21	08/14/13 19:02	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/13/13 21:21*	*08/14/13 19:02*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/13/13 21:21*	*08/14/13 19:02*	*20*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-1

Client Sample ID: EX7-S3(2.0)
Date Collected: 08/13/13 10:15
Date Received: 08/13/13 15:00

Lab Sample ID: 720-51599-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	17		0.99		mg/Kg		08/13/13 21:22	08/14/13 16:59	1
Motor Oil Range Organics [C24-C36]	57		49		mg/Kg		08/13/13 21:22	08/14/13 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.5*		*0 - 1*	*08/13/13 21:22*	*08/14/13 16:59*	*1*
p-Terphenyl	*96*		*38 - 148*	*08/13/13 21:22*	*08/14/13 16:59*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-1

Client Sample ID: EX7-S4(2.0)
Date Collected: 08/13/13 10:20
Date Received: 08/13/13 15:00

Lab Sample ID: 720-51599-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.1**		0.99		mg/Kg		08/13/13 21:22	08/14/13 16:59	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/13/13 21:22	08/14/13 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.0003*		*0 - 1*	*08/13/13 21:22*	*08/14/13 16:59*	*1*
p-Terphenyl	*121*		*38 - 148*	*08/13/13 21:22*	*08/14/13 16:59*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-1

Client Sample ID: EX7-B1(4.0)
Date Collected: 08/13/13 10:25
Date Received: 08/13/13 15:00

Lab Sample ID: 720-51599-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	250		4.9		mg/Kg		08/13/13 21:22	08/14/13 18:37	5
Motor Oil Range Organics [C24-C36]	860		250		mg/Kg		08/13/13 21:22	08/14/13 18:37	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/13/13 21:22*	*08/14/13 18:37*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/13/13 21:22*	*08/14/13 18:37*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-1

Client Sample ID: COMPOSITE-BP2
Date Collected: 08/13/13 13:40
Date Received: 08/13/13 15:00

Lab Sample ID: 720-51599-10
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.2**		0.99		mg/Kg		08/13/13 21:22	08/14/13 17:24	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/13/13 21:22	08/14/13 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 1*	*08/13/13 21:22*	*08/14/13 17:24*	*1*
p-Terphenyl	*110*		*38 - 148*	*08/13/13 21:22*	*08/14/13 17:24*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-142160/1-A
Matrix: Solid
Analysis Batch: 142168

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 142160

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/13/13 21:21	08/14/13 19:51	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/13/13 21:21	08/14/13 19:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*08/13/13 21:21*	*08/14/13 19:51*	*1*
p-Terphenyl	*101*		*38 - 148*	*08/13/13 21:21*	*08/14/13 19:51*	*1*

Lab Sample ID: LCS 720-142160/2-A
Matrix: Solid
Analysis Batch: 142168

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 142160

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.1	58.5		mg/Kg		71	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*113*		*38 - 148*

Lab Sample ID: LCSD 720-142160/3-A
Matrix: Solid
Analysis Batch: 142168

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 142160

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.1	60.7		mg/Kg		74	36 - 112	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*114*		*38 - 148*

Lab Sample ID: 720-51599-1 MS
Matrix: Solid
Analysis Batch: 142169

Client Sample ID: EX7-S1(2.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 142160

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	480		82.2	499	4	mg/Kg		28	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*38 - 148*

Lab Sample ID: 720-51599-1 MSD
Matrix: Solid
Analysis Batch: 142169

Client Sample ID: EX7-S1(2.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 142160

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	480		82.2	527	4	mg/Kg		63	50 - 150	6	30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-51599-1 MSD
Matrix: Solid
Analysis Batch: 142169

Client Sample ID: EX7-S1(2.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 142160

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	*0*	*X D*	*38 - 148*

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-1

GC Semi VOA

Prep Batch: 142160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51599-1	EX7-S1(2.0)	Silica Gel Cleanup	Solid	3546	
720-51599-1 MS	EX7-S1(2.0)	Silica Gel Cleanup	Solid	3546	
720-51599-1 MSD	EX7-S1(2.0)	Silica Gel Cleanup	Solid	3546	
720-51599-2	EX7-S2(2.0)	Silica Gel Cleanup	Solid	3546	
720-51599-3	EX7-S3(2.0)	Silica Gel Cleanup	Solid	3546	
720-51599-4	EX7-S4(2.0)	Silica Gel Cleanup	Solid	3546	
720-51599-5	EX7-B1(4.0)	Silica Gel Cleanup	Solid	3546	
720-51599-10	COMPOSITE-BP2	Silica Gel Cleanup	Solid	3546	
LCS 720-142160/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-142160/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-142160/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 142168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51599-2	EX7-S2(2.0)	Silica Gel Cleanup	Solid	8015B	142160
720-51599-4	EX7-S4(2.0)	Silica Gel Cleanup	Solid	8015B	142160
720-51599-5	EX7-B1(4.0)	Silica Gel Cleanup	Solid	8015B	142160
720-51599-10	COMPOSITE-BP2	Silica Gel Cleanup	Solid	8015B	142160
LCS 720-142160/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	142160
LCSD 720-142160/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	142160
MB 720-142160/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	142160

Analysis Batch: 142169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51599-1	EX7-S1(2.0)	Silica Gel Cleanup	Solid	8015B	142160
720-51599-1 MS	EX7-S1(2.0)	Silica Gel Cleanup	Solid	8015B	142160
720-51599-1 MSD	EX7-S1(2.0)	Silica Gel Cleanup	Solid	8015B	142160
720-51599-3	EX7-S3(2.0)	Silica Gel Cleanup	Solid	8015B	142160

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-1

Client Sample ID: EX7-S1(2.0)

Lab Sample ID: 720-51599-1

Date Collected: 08/13/13 10:05

Matrix: Solid

Date Received: 08/13/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142160	08/13/13 21:21	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	142169	08/14/13 19:02	DCH	TAL PLS

Client Sample ID: EX7-S2(2.0)

Lab Sample ID: 720-51599-2

Date Collected: 08/13/13 10:10

Matrix: Solid

Date Received: 08/13/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142160	08/13/13 21:21	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	142168	08/14/13 19:02	DCH	TAL PLS

Client Sample ID: EX7-S3(2.0)

Lab Sample ID: 720-51599-3

Date Collected: 08/13/13 10:15

Matrix: Solid

Date Received: 08/13/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142160	08/13/13 21:22	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142169	08/14/13 16:59	DCH	TAL PLS

Client Sample ID: EX7-S4(2.0)

Lab Sample ID: 720-51599-4

Date Collected: 08/13/13 10:20

Matrix: Solid

Date Received: 08/13/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142160	08/13/13 21:22	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142168	08/14/13 16:59	DCH	TAL PLS

Client Sample ID: EX7-B1(4.0)

Lab Sample ID: 720-51599-5

Date Collected: 08/13/13 10:25

Matrix: Solid

Date Received: 08/13/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142160	08/13/13 21:22	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	142168	08/14/13 18:37	DCH	TAL PLS

Client Sample ID: COMPOSITE-BP2

Lab Sample ID: 720-51599-10

Date Collected: 08/13/13 13:40

Matrix: Solid

Date Received: 08/13/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142160	08/13/13 21:22	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142168	08/14/13 17:24	DCH	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-1

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51599-1	EX7-S1(2.0)	Solid	08/13/13 10:05	08/13/13 15:00
720-51599-2	EX7-S2(2.0)	Solid	08/13/13 10:10	08/13/13 15:00
720-51599-3	EX7-S3(2.0)	Solid	08/13/13 10:15	08/13/13 15:00
720-51599-4	EX7-S4(2.0)	Solid	08/13/13 10:20	08/13/13 15:00
720-51599-5	EX7-B1(4.0)	Solid	08/13/13 10:25	08/13/13 15:00
720-51599-10	COMPOSITE-BP2	Solid	08/13/13 13:40	08/13/13 15:00

HALL & ALDRICH

Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1402

720-51599

CHAIN OF CUSTODY RECORD

147892

Phone 617) 886-7400
Fax 617) 886-7600

Page 1 of

H&A FILE NO.	B39792	LABORATORY	Test America
PROJECT NAME	Former Hanson Aggregate Facility	ADDRESS	1220 Quarry Lane, Pleasanton, CA.
H&A CONTACT	Kristin Guthrie	CONTACT	Dimple Sharma
DELIVERY DATE	8/13/13 (Tu.)		
TURNAROUND TIME	1 Day (24hr.)		
PROJECT MANAGER	Kristin & Dimple		

Sample No.	Date	Time	Depth	Type	VOA	ABNs PAH only	MCP Metals	Pesticides PCBs	VPH Full Suite C-ranges only	EPH Full Suite C-ranges only	Cr, Cam, Nigel. TPH (specify)	TCLP (specify)	Reactivity Ignitability Corrosivity	Geotech Proctor	Number of Containers
Ex9-S1 (2.0)	8/13/13	1005	2.0	Soil							X				1
Ex9-S2 (2.0)	8/13/13	1010	2.0	Soil							X				1
Ex9-S3 (2.0)	8/13/13	1015	2.0	Soil							X				1
Ex9-S4 (2.0)	8/13/13	1020	2.0	Soil							X				1
Ex9-B1 (4.0)	8/13/13	1025	4.0	Soil							X				1
Composite-BP2	8/13/13	1340	0.5	Soil							X			X	5

Comments (special instructions, precautions, additional method numbers, etc.)

Laboratory to use applicable DEP CAM methods, unless otherwise directed.

② - Use 5 gallon bucket Sample for geotechnical analysis.

720-51599 Chain of Custody

Sampled and Relinquished by	Received by
Sign	Sign
Print David Gerhardstein	Print
Firm H&A	Firm
Date 08/13/13 Time 1500	Date Time
Relinquished by	**Received by**
Sign	Sign
Print Justin Morales	Print
Firm IAP	Firm
Date 8/13/13 Time 1500	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID

RUSH

VOA Vial	
Amber Glass	
Plastic Bottle	
Preservative	
Volume	

SOLID

VOA Vial	bucket
Clear Glass	X
Preservative	A
Volume	902. 5gal

Sampling Comments

3.7°C

Evidence samples were tampered with? YES NO

If YES, please explain in section below.

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Water/NaHSO4 (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate Laboratory should (specify if applicable) _____ analyz

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD - Haley & Aldrich Contact APRIL 2004

Form 3003

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51599-1

Login Number: 51599

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51599-2
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
8/16/2013 4:17:05 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51599-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51599-2

Comments
No additional comments.

Receipt
The samples were received on 8/13/2013 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7º C.

GC/MS Semi VOA
Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch #142266 was outside control limits. Non-homogeneity of the sample matrix is suspected. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision met acceptance criteria.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: EX7-S2(2.0) (720-51599-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-2

Client Sample ID: EX7-S2(2.0) **Lab Sample ID: 720-51599-2**

No Detections.

Client Sample ID: EX7-S4(2.0) **Lab Sample ID: 720-51599-4**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-2

Client Sample ID: EX7-S2(2.0)
Date Collected: 08/13/13 10:10
Date Received: 08/13/13 15:00

Lab Sample ID: 720-51599-2
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		500		ug/Kg		08/15/13 17:42	08/16/13 00:23	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*33 - 120*	*08/15/13 17:42*	*08/16/13 00:23*	*20*
Terphenyl-d14	*83*		*35 - 146*	*08/15/13 17:42*	*08/16/13 00:23*	*20*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-2

Client Sample ID: EX7-S4(2.0)
Date Collected: 08/13/13 10:20
Date Received: 08/13/13 15:00

Lab Sample ID: 720-51599-4
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		08/15/13 17:42	08/15/13 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*33 - 120*	*08/15/13 17:42*	*08/15/13 23:59*	*1*
Terphenyl-d14	*69*		*35 - 146*	*08/15/13 17:42*	*08/15/13 23:59*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-2

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-142266/1-A
Matrix: Solid
Analysis Batch: 142272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 142266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		08/15/13 12:11	08/15/13 22:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*54*		*33 - 120*	*08/15/13 12:11*	*08/15/13 22:26*	*1*
Terphenyl-d14	*79*		*35 - 146*	*08/15/13 12:11*	*08/15/13 22:26*	*1*

Lab Sample ID: LCS 720-142266/2-A
Matrix: Solid
Analysis Batch: 142272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 142266

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			330	180		ug/Kg		54	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*68*		*33 - 120*
Terphenyl-d14	*76*		*35 - 146*

Lab Sample ID: LCSD 720-142266/3-A
Matrix: Solid
Analysis Batch: 142272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 142266

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			332	174		ug/Kg		52	46 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*64*		*33 - 120*
Terphenyl-d14	*71*		*35 - 146*

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-2

GC/MS Semi VOA

Prep Batch: 142266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51599-2	EX7-S2(2.0)	Total/NA	Solid	3546	
720-51599-4	EX7-S4(2.0)	Total/NA	Solid	3546	
LCS 720-142266/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-142266/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-142266/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 142272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51599-2	EX7-S2(2.0)	Total/NA	Solid	8270C SIM	142266
720-51599-4	EX7-S4(2.0)	Total/NA	Solid	8270C SIM	142266
LCS 720-142266/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	142266
LCSD 720-142266/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	142266
MB 720-142266/1-A	Method Blank	Total/NA	Solid	8270C SIM	142266

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-2

Client Sample ID: EX7-S2(2.0)

Lab Sample ID: 720-51599-2

Date Collected: 08/13/13 10:10

Matrix: Solid

Date Received: 08/13/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			142266	08/15/13 17:42	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		20	142272	08/16/13 00:23	MQL	TAL PLS

Client Sample ID: EX7-S4(2.0)

Lab Sample ID: 720-51599-4

Date Collected: 08/13/13 10:20

Matrix: Solid

Date Received: 08/13/13 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			142266	08/15/13 17:42	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		1	142272	08/15/13 23:59	MQL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-2

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-2

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51599-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51599-2	EX7-S2(2.0)	Solid	08/13/13 10:10	08/13/13 15:00
720-51599-4	EX7-S4(2.0)	Solid	08/13/13 10:20	08/13/13 15:00

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51599-2

Login Number: 51599

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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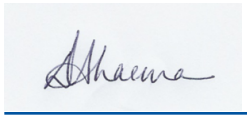
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51640-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie



Authorized for release by:
8/19/2013 5:00:31 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51640-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51640-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51640-1

Comments
No additional comments.

Receipt
The samples were received on 8/14/2013 4:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3º C.

GC/MS Semi VOA
Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: EX9-S1(3.0) (720-51640-3). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: Internal standard response was outside of acceptance limits for the following sample: EX9-S1(3.0) (720-51640-3). The sample shows evidence of matrix interference.

No other analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: EX9-S1(3.0) (720-51640-3).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51640-1

Client Sample ID: EX9-B1(8.0) — Lab Sample ID: 720-51640-1

No Detections.

Client Sample ID: EX9-B2(8.0) — Lab Sample ID: 720-51640-2

No Detections.

Client Sample ID: EX9-S1(3.0) — Lab Sample ID: 720-51640-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	5300		200		mg/Kg	200		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	30000		9800		mg/Kg	200		8015B	Silica Gel Cleanup

Client Sample ID: EX9-S2(4.0) — Lab Sample ID: 720-51640-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	17		0.98		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	81		49		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX9-S3(6.0) — Lab Sample ID: 720-51640-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	7.4		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX9-S4(6.0) — Lab Sample ID: 720-51640-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.5		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX9-S5(6.0) — Lab Sample ID: 720-51640-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.7		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51640-1

Client Sample ID: EX9-B1(8.0)
Date Collected: 08/14/13 11:41
Date Received: 08/14/13 16:30

Lab Sample ID: 720-51640-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98		mg/Kg		08/14/13 18:20	08/15/13 14:53	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/14/13 18:20	08/15/13 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/14/13 18:20*	*08/15/13 14:53*	*1*
p-Terphenyl	*100*		*38 - 148*	*08/14/13 18:20*	*08/15/13 14:53*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51640-1

Client Sample ID: EX9-B2(8.0)
Date Collected: 08/14/13 11:43
Date Received: 08/14/13 16:30

Lab Sample ID: 720-51640-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/14/13 18:20	08/15/13 15:23	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/14/13 18:20	08/15/13 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/14/13 18:20*	*08/15/13 15:23*	*1*
p-Terphenyl	*99*		*38 - 148*	*08/14/13 18:20*	*08/15/13 15:23*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51640-1

Client Sample ID: EX9-S1(3.0)
Date Collected: 08/14/13 11:22
Date Received: 08/14/13 16:30

Lab Sample ID: 720-51640-3
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		50		ug/Kg		08/14/13 19:28	08/15/13 15:38	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*97*		*33 - 120*	*08/14/13 19:28*	*08/15/13 15:38*	*2*
Terphenyl-d14	*106*		*35 - 146*	*08/14/13 19:28*	*08/15/13 15:38*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5300**		200		mg/Kg		08/14/13 18:20	08/16/13 22:19	200
Motor Oil Range Organics [C24-C36]	**30000**		9800		mg/Kg		08/14/13 18:20	08/16/13 22:19	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/14/13 18:20*	*08/16/13 22:19*	*200*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/14/13 18:20*	*08/16/13 22:19*	*200*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51640-1

Client Sample ID: EX9-S2(4.0)
Date Collected: 08/14/13 11:18
Date Received: 08/14/13 16:30

Lab Sample ID: 720-51640-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	17		0.98		mg/Kg		08/14/13 18:20	08/15/13 22:44	1
Motor Oil Range Organics [C24-C36]	81		49		mg/Kg		08/14/13 18:20	08/15/13 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.1*		*0 - 1*	*08/14/13 18:20*	*08/15/13 22:44*	*1*
p-Terphenyl	*71*		*38 - 148*	*08/14/13 18:20*	*08/15/13 22:44*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51640-1

Client Sample ID: EX9-S3(6.0)
Date Collected: 08/14/13 11:40
Date Received: 08/14/13 16:30

Lab Sample ID: 720-51640-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**7.4**		0.99		mg/Kg		08/14/13 18:20	08/15/13 16:21	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/14/13 18:20	08/15/13 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/14/13 18:20*	*08/15/13 16:21*	*1*
p-Terphenyl	*83*		*38 - 148*	*08/14/13 18:20*	*08/15/13 16:21*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51640-1

Client Sample ID: EX9-S4(6.0)
Date Collected: 08/14/13 11:37
Date Received: 08/14/13 16:30

Lab Sample ID: 720-51640-6
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.5**		0.99		mg/Kg		08/14/13 18:20	08/15/13 14:12	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/14/13 18:20	08/15/13 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 1*	*08/14/13 18:20*	*08/15/13 14:12*	*1*
p-Terphenyl	*88*		*38 - 148*	*08/14/13 18:20*	*08/15/13 14:12*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51640-1

Client Sample ID: EX9-S5(6.0)
Date Collected: 08/14/13 11:28
Date Received: 08/14/13 16:30

Lab Sample ID: 720-51640-7
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		08/14/13 19:28	08/15/13 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*33 - 120*	*08/14/13 19:28*	*08/15/13 16:02*	*1*
Terphenyl-d14	*81*		*35 - 146*	*08/14/13 19:28*	*08/15/13 16:02*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.7**		0.99		mg/Kg		08/14/13 18:20	08/15/13 15:52	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/14/13 18:20	08/15/13 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 1*	*08/14/13 18:20*	*08/15/13 15:52*	*1*
p-Terphenyl	*95*		*38 - 148*	*08/14/13 18:20*	*08/15/13 15:52*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-142236/1-A
Matrix: Solid
Analysis Batch: 142272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 142236

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		08/14/13 19:28	08/15/13 15:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*33 - 120*	*08/14/13 19:28*	*08/15/13 15:15*	*1*
Terphenyl-d14	*79*		*35 - 146*	*08/14/13 19:28*	*08/15/13 15:15*	*1*

Lab Sample ID: LCS 720-142236/2-A
Matrix: Solid
Analysis Batch: 142272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 142236

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			331	173		ug/Kg		52	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*64*		*33 - 120*
Terphenyl-d14	*82*		*35 - 146*

Lab Sample ID: LCSD 720-142236/3-A
Matrix: Solid
Analysis Batch: 142272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 142236

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			331	171		ug/Kg		52	46 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*62*		*33 - 120*
Terphenyl-d14	*80*		*35 - 146*

Lab Sample ID: 720-51640-3 MS
Matrix: Solid
Analysis Batch: 142272

Client Sample ID: EX9-S1(3.0)
Prep Type: Total/NA
Prep Batch: 142236

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene	ND		329	254		ug/Kg		77	32 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*100*		*33 - 120*
Terphenyl-d14	*97*		*35 - 146*

Lab Sample ID: 720-51640-3 MSD
Matrix: Solid
Analysis Batch: 142272

Client Sample ID: EX9-S1(3.0)
Prep Type: Total/NA
Prep Batch: 142236

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		332	247		ug/Kg		75	32 - 120	3	20

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: 720-51640-3 MSD
Matrix: Solid
Analysis Batch: 142272

Client Sample ID: EX9-S1(3.0)
Prep Type: Total/NA
Prep Batch: 142236

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*91*		*33 - 120*
Terphenyl-d14	*90*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-142208/1-A
Matrix: Solid
Analysis Batch: 142327

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 142208

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/14/13 14:36	08/16/13 23:53	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/14/13 14:36	08/16/13 23:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.005*		*0 - 1*	*08/14/13 14:36*	*08/16/13 23:53*	*1*
p-Terphenyl	*99*		*38 - 148*	*08/14/13 14:36*	*08/16/13 23:53*	*1*

Lab Sample ID: LCS 720-142208/2-A
Matrix: Solid
Analysis Batch: 142327

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 142208

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.3	53.4		mg/Kg		65	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*104*		*38 - 148*

Lab Sample ID: LCSD 720-142208/3-A
Matrix: Solid
Analysis Batch: 142327

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 142208

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.5	49.6		mg/Kg		60	36 - 112	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*100*		*38 - 148*

GC/MS Semi VOA

Prep Batch: 142236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51640-3	EX9-S1(3.0)	Total/NA	Solid	3546	
720-51640-3 MS	EX9-S1(3.0)	Total/NA	Solid	3546	
720-51640-3 MSD	EX9-S1(3.0)	Total/NA	Solid	3546	
720-51640-7	EX9-S5(6.0)	Total/NA	Solid	3546	
LCS 720-142236/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-142236/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-142236/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 142272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51640-3	EX9-S1(3.0)	Total/NA	Solid	8270C SIM	142236
720-51640-3 MS	EX9-S1(3.0)	Total/NA	Solid	8270C SIM	142236
720-51640-3 MSD	EX9-S1(3.0)	Total/NA	Solid	8270C SIM	142236
720-51640-7	EX9-S5(6.0)	Total/NA	Solid	8270C SIM	142236
LCS 720-142236/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	142236
LCSD 720-142236/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	142236
MB 720-142236/1-A	Method Blank	Total/NA	Solid	8270C SIM	142236

GC Semi VOA

Prep Batch: 142208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51640-1	EX9-B1(8.0)	Silica Gel Cleanup	Solid	3546	
720-51640-2	EX9-B2(8.0)	Silica Gel Cleanup	Solid	3546	
720-51640-3	EX9-S1(3.0)	Silica Gel Cleanup	Solid	3546	
720-51640-4	EX9-S2(4.0)	Silica Gel Cleanup	Solid	3546	
720-51640-5	EX9-S3(6.0)	Silica Gel Cleanup	Solid	3546	
720-51640-6	EX9-S4(6.0)	Silica Gel Cleanup	Solid	3546	
720-51640-7	EX9-S5(6.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-142208/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-142208/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-142208/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 142244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51640-6	EX9-S4(6.0)	Silica Gel Cleanup	Solid	8015B	142208

Analysis Batch: 142247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51640-1	EX9-B1(8.0)	Silica Gel Cleanup	Solid	8015B	142208
720-51640-2	EX9-B2(8.0)	Silica Gel Cleanup	Solid	8015B	142208
720-51640-4	EX9-S2(4.0)	Silica Gel Cleanup	Solid	8015B	142208
720-51640-5	EX9-S3(6.0)	Silica Gel Cleanup	Solid	8015B	142208
720-51640-7	EX9-S5(6.0)	Silica Gel Cleanup	Solid	8015B	142208

Analysis Batch: 142327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-142208/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	142208
LCSD 720-142208/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	142208
MB 720-142208/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	142208

GC Semi VOA (Continued)

Analysis Batch: 142338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51640-3	EX9-S1(3.0)	Silica Gel Cleanup	Solid	8015B	142208

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51640-1

Client Sample ID: EX9-B1(8.0)

Lab Sample ID: 720-51640-1

Date Collected: 08/14/13 11:41

Matrix: Solid

Date Received: 08/14/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142208	08/14/13 18:20	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142247	08/15/13 14:53	DCH	TAL PLS

Client Sample ID: EX9-B2(8.0)

Lab Sample ID: 720-51640-2

Date Collected: 08/14/13 11:43

Matrix: Solid

Date Received: 08/14/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142208	08/14/13 18:20	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142247	08/15/13 15:23	DCH	TAL PLS

Client Sample ID: EX9-S1(3.0)

Lab Sample ID: 720-51640-3

Date Collected: 08/14/13 11:22

Matrix: Solid

Date Received: 08/14/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			142236	08/14/13 19:28	DBT	TAL PLS
Total/NA	Analysis	8270C SIM		2	142272	08/15/13 15:38	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			142208	08/14/13 18:20	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		200	142338	08/16/13 22:19	DCH	TAL PLS

Client Sample ID: EX9-S2(4.0)

Lab Sample ID: 720-51640-4

Date Collected: 08/14/13 11:18

Matrix: Solid

Date Received: 08/14/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142208	08/14/13 18:20	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142247	08/15/13 22:44	DCH	TAL PLS

Client Sample ID: EX9-S3(6.0)

Lab Sample ID: 720-51640-5

Date Collected: 08/14/13 11:40

Matrix: Solid

Date Received: 08/14/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142208	08/14/13 18:20	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142247	08/15/13 16:21	DCH	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51640-1

Client Sample ID: EX9-S4(6.0)

Lab Sample ID: 720-51640-6

Date Collected: 08/14/13 11:37

Matrix: Solid

Date Received: 08/14/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142208	08/14/13 18:20	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142244	08/15/13 14:12	DCH	TAL PLS

Client Sample ID: EX9-S5(6.0)

Lab Sample ID: 720-51640-7

Date Collected: 08/14/13 11:28

Matrix: Solid

Date Received: 08/14/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			142236	08/14/13 19:28	DBT	TAL PLS
Total/NA	Analysis	8270C SIM		1	142272	08/15/13 16:02	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			142208	08/14/13 18:20	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142247	08/15/13 15:52	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51640-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51640-1

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51640-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51640-1	EX9-B1(8.0)	Solid	08/14/13 11:41	08/14/13 16:30
720-51640-2	EX9-B2(8.0)	Solid	08/14/13 11:43	08/14/13 16:30
720-51640-3	EX9-S1(3.0)	Solid	08/14/13 11:22	08/14/13 16:30
720-51640-4	EX9-S2(4.0)	Solid	08/14/13 11:18	08/14/13 16:30
720-51640-5	EX9-S3(6.0)	Solid	08/14/13 11:40	08/14/13 16:30
720-51640-6	EX9-S4(6.0)	Solid	08/14/13 11:37	08/14/13 16:30
720-51640-7	EX9-S5(6.0)	Solid	08/14/13 11:28	08/14/13 16:30

720-51640

147927

HALEY & ALDRICH

Haley & Aldrich, Inc.
2033 N. Main St, Ste 309
Walnut Creek, CA 94596-7260

CHAIN OF CUSTODY RECORD

Phone (925) 949-1012
Fax (925) 979-1456
Page 1 of 1

H&A FILE NO.	39792- ~~002~~	LABORATORY	Test America, Pleasanton, Ca
PROJECT NAME	Former Hanson Aggregate Facility	ADDRESS	1200 Quarry Lane, 94566
H&A CONTACT	J. Sebik, R Brownsberger ~~D Gerhardstein~~	CONTACT	Dimple Sharma
DELIVERY DATE			
TURNAROUND TIME	24- hour		
PROJECT MANAGER	K. Guthrie, J Schwartz		

Sample No.	Date	Time	Depth	Type	Analysis Requested: TPH-d/mo by 8015B with silica gel cleanup	Naphthalene ONLY by 8270C SIM	Proctor Test (Compaction Curve)	CAM17 metals	TPH-g	pH by 9040	VOCs	SVOCs	Asbestos by CARB 435			Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
EX9-B1(8.0)	8/14/13	1141	8.0	S	X											1	
EX9-B2(8.0)		1143	8.0		X											1	
EX9-S1(3.0)		1122	3.0		X	X										1	
EX9-S2(4.0)		1118	4.0		X											1	
EX9-S3(6.0)		1140	6.0		X											1	
EX9-S4(6.0)		1137	6.0		X											1	
EX9-S5(6.0)		1128	6.0		X	X										1	
CC-Spoils-081413		1350	-				X									1	
																8S	

Sampled and Relinquished by	Received by
Sign	Sign
Print JOANNA SEBIK	Print
Firm Haley & Aldrich	Firm ~~test~~ Amer
Date 8/14/13 Time 1630	Date 8-14-13 Time 1630
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID

RUSH

VOA Vial		
Amber Glass		
Plas		
Pre		
Vol		

SOLID

VO		
Aml		
Clear Glass	X	x
Preservative	A	A
Volume	8oz	8oz

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Water/NaHSO4 (circle)

Sampling Comments

Archive all samples after analysis.

720-51640 Chain of Custody

Evidence samples were tampered with? YES NO

If YES, please explain in section below.

2.3°

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate Laboratory should (specify if applicable) _____ analyz

Required Reporting Limits and Data Quality Objectives

- ☐ RC-S1
- ☐ RC-S2
- ☐ RC-GW1
- ☐ RC-GW2
- ☐ S1
- ☒ S2
- ☐ S3
- ☐ GW1
- ☐ GW2
- ☐ GW3

September 2012

Form 3003

8/19/2013

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51640-1

Login Number: 51640

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51664-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
8/19/2013 2:46:51 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51664-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51664-1

Comments
No additional comments.

Receipt
The samples were received on 8/15/2013 10:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.4° C.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51664-1

Client Sample ID: CC-B20(9.0) — Lab Sample ID: 720-51664-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.6		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CC-B60(14.0) — Lab Sample ID: 720-51664-5

No Detections.

Client Sample ID: CC-B100(18.0) — Lab Sample ID: 720-51664-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.3		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CC-B140(20.0) — Lab Sample ID: 720-51664-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	15		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CC-B160(20.0) — Lab Sample ID: 720-51664-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	5.3		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51664-1

Client Sample ID: CC-B20(9.0)
Date Collected: 08/15/13 08:26
Date Received: 08/15/13 10:55

Lab Sample ID: 720-51664-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.6**		0.99		mg/Kg		08/15/13 12:14	08/16/13 16:03	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/15/13 12:14	08/16/13 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.0006*		*0 - 1*	*08/15/13 12:14*	*08/16/13 16:03*	*1*
p-Terphenyl	*91*		*38 - 148*	*08/15/13 12:14*	*08/16/13 16:03*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51664-1

Client Sample ID: CC-B60(14.0)
Date Collected: 08/15/13 08:19
Date Received: 08/15/13 10:55

Lab Sample ID: 720-51664-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/15/13 12:14	08/16/13 15:38	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/15/13 12:14	08/16/13 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 1*	*08/15/13 12:14*	*08/16/13 15:38*	*1*
p-Terphenyl	*88*		*38 - 148*	*08/15/13 12:14*	*08/16/13 15:38*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51664-1

Client Sample ID: CC-B100(18.0)
Date Collected: 08/15/13 08:09
Date Received: 08/15/13 10:55

Lab Sample ID: 720-51664-8
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.3**		0.99		mg/Kg		08/15/13 12:14	08/16/13 02:32	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/15/13 12:14	08/16/13 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.0005*		*0 - 1*	*08/15/13 12:14*	*08/16/13 02:32*	*1*
p-Terphenyl	*92*		*38 - 148*	*08/15/13 12:14*	*08/16/13 02:32*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51664-1

Client Sample ID: CC-B140(20.0)
Date Collected: 08/15/13 07:54
Date Received: 08/15/13 10:55

Lab Sample ID: 720-51664-11
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**15**		0.99		mg/Kg		08/15/13 12:14	08/16/13 03:21	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/15/13 12:14	08/16/13 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*08/15/13 12:14*	*08/16/13 03:21*	*1*
p-Terphenyl	*102*		*38 - 148*	*08/15/13 12:14*	*08/16/13 03:21*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51664-1

Client Sample ID: CC-B160(20.0)
Date Collected: 08/15/13 07:46
Date Received: 08/15/13 10:55

Lab Sample ID: 720-51664-13
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.3**		1.0		mg/Kg		08/15/13 12:14	08/16/13 02:56	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/15/13 12:14	08/16/13 02:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*08/15/13 12:14*	*08/16/13 02:56*	*1*
p-Terphenyl	*93*		*38 - 148*	*08/15/13 12:14*	*08/16/13 02:56*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-142267/1-A
Matrix: Solid
Analysis Batch: 142245

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 142267

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/15/13 12:14	08/16/13 05:22	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/15/13 12:14	08/16/13 05:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/15/13 12:14*	*08/16/13 05:22*	*1*
p-Terphenyl	*93*		*38 - 148*	*08/15/13 12:14*	*08/16/13 05:22*	*1*

Lab Sample ID: LCS 720-142267/2-A
Matrix: Solid
Analysis Batch: 142245

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 142267

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.4	50.3		mg/Kg		61	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*106*		*38 - 148*

Lab Sample ID: LCSD 720-142267/3-A
Matrix: Solid
Analysis Batch: 142245

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 142267

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			83.1	48.9		mg/Kg		59	36 - 112	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*111*		*38 - 148*

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51664-1

GC Semi VOA

Analysis Batch: 142245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51664-8	CC-B100(18.0)	Silica Gel Cleanup	Solid	8015B	142267
720-51664-11	CC-B140(20.0)	Silica Gel Cleanup	Solid	8015B	142267
720-51664-13	CC-B160(20.0)	Silica Gel Cleanup	Solid	8015B	142267
LCS 720-142267/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	142267
LCSD 720-142267/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	142267
MB 720-142267/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	142267

Prep Batch: 142267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51664-2	CC-B20(9.0)	Silica Gel Cleanup	Solid	3546	
720-51664-5	CC-B60(14.0)	Silica Gel Cleanup	Solid	3546	
720-51664-8	CC-B100(18.0)	Silica Gel Cleanup	Solid	3546	
720-51664-11	CC-B140(20.0)	Silica Gel Cleanup	Solid	3546	
720-51664-13	CC-B160(20.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-142267/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-142267/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-142267/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 142326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51664-2	CC-B20(9.0)	Silica Gel Cleanup	Solid	8015B	142267
720-51664-5	CC-B60(14.0)	Silica Gel Cleanup	Solid	8015B	142267

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51664-1

Client Sample ID: CC-B20(9.0)

Lab Sample ID: 720-51664-2

Date Collected: 08/15/13 08:26

Matrix: Solid

Date Received: 08/15/13 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142267	08/15/13 12:14	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142326	08/16/13 16:03	DCH	TAL PLS

Client Sample ID: CC-B60(14.0)

Lab Sample ID: 720-51664-5

Date Collected: 08/15/13 08:19

Matrix: Solid

Date Received: 08/15/13 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142267	08/15/13 12:14	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142326	08/16/13 15:38	DCH	TAL PLS

Client Sample ID: CC-B100(18.0)

Lab Sample ID: 720-51664-8

Date Collected: 08/15/13 08:09

Matrix: Solid

Date Received: 08/15/13 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142267	08/15/13 12:14	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142245	08/16/13 02:32	DCH	TAL PLS

Client Sample ID: CC-B140(20.0)

Lab Sample ID: 720-51664-11

Date Collected: 08/15/13 07:54

Matrix: Solid

Date Received: 08/15/13 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142267	08/15/13 12:14	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142245	08/16/13 03:21	DCH	TAL PLS

Client Sample ID: CC-B160(20.0)

Lab Sample ID: 720-51664-13

Date Collected: 08/15/13 07:46

Matrix: Solid

Date Received: 08/15/13 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142267	08/15/13 12:14	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142245	08/16/13 02:56	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51664-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51664-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51664-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51664-2	CC-B20(9.0)	Solid	08/15/13 08:26	08/15/13 10:55
720-51664-5	CC-B60(14.0)	Solid	08/15/13 08:19	08/15/13 10:55
720-51664-8	CC-B100(18.0)	Solid	08/15/13 08:09	08/15/13 10:55
720-51664-11	CC-B140(20.0)	Solid	08/15/13 07:54	08/15/13 10:55
720-51664-13	CC-B160(20.0)	Solid	08/15/13 07:46	08/15/13 10:55

147952

HALEY & ALDRICH

Haley & Aldrich, Inc.
2033 N. Main St, Ste 309
Walnut Creek, CA 94596-7260

CHAIN OF CUSTODY RECORD

Phone (925) 949-1012
Fax (925) 979-1456
Page 1 of 2

720-51664

H&A FILE NO.	39792-	LABORATORY	Test America, Pleasanton, Ca
PROJECT NAME	Former Hanson Aggregate Facility	ADDRESS	1200 Quarry Lane, 94566
H&A CONTACT	J. Sebik, R Brownsberger	CONTACT	Dimple Sharma
DELIVERY DATE			
TURNAROUND TIME	24- hour		
PROJECT MANAGER	K. Guthrie, J Schwartz		

Sample No.	Date	Time	Depth	Type	TPH-d/mo by 8015B with silica gel cleanup	Naphthalene ONLY by 8270C SIM	Proctor Test (Compaction Curve)	CAM17 metals	TPH-g	pH by 9040	VOCs	SVOCs	Asbestos by CARB 435			Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
CC-B10(8.0)	8/15/13	0830	8.0	S	X											1	
CC-B20(9.0)		0826	9.0		X											1	
CC-B30(11.0)		0825	11.0		X											1	
CC-B50(13.0)		0821	13.0		X											1	
CC-B60(14.0)		0819	14.0		X											1	
CC-B70(15.0)		0816	15.0		X											1	
CC-B90(16.0)		0813	16.0		X											1	
CC-B100(18.0)		0809	18.0		X											1	
CC-B110(20.0)		0806	20.0		X											1	
CC-B130(20.0)		0758	20.0		X											1	

Analysis Requested

Sampled and Relinquished by	Received by
Sign	Sign
Print JOANNA SEBIK	Print
Firm H&A	Firm
Date 8/15/13 Time 1055	Date 8-15-13 Time 1055
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID

720-51664 Chain of Custody

VOA Vial
Amber Glass
Plastic Bottle
Preservative
Volume

SOLID

X
A
8oz

RUSH

VOA Vial
Amber Glass
Clear Glass
Preservative
Volume

Sampling Comments

Archive all samples after analysis.

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

5.4°

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Water/NaHSO4 (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate Laboratory should (specify if applicable) _____ analyz

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

September 2012

Form 3003

8/19/2013

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HALEY & ALDRICH

Haley & Aldrich, Inc.
2033 N. Main St, Ste 309
Walnut Creek, CA 94596-7260

720- CHAIN OF CUSTODY RECORD

Phone (925) 949-1012
Fax (925) 979-1456
Page 2 of 2

H&A FILE NO.	39792-	LABORATORY	Test America, Pleasanton, Ca	DELIVERY DATE	
PROJECT NAME	Former Hanson Aggregate Facility	ADDRESS	1200 Quarry Lane, 94566	TURNAROUND TIME	24- hour
H&A CONTACT	J. Sebik, R Brownsberger	CONTACT	Dimple Sharma	PROJECT MANAGER	K. Guthrie, J Schwartz

Sample No.	Date	Time	Depth	Type	TPH-d/mo by 8015B with silica gel cleanup	Naphthalene ONLY by 8270C SIM	Proctor Test (Compaction Curve)	CAM17 metals	TPH-g	pH by 9040	VOCs	SVOCs	Asbestos by CARB 435			Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
CC-B140 (20.0)	8/15/13	0754	20.0	S	X											1	
CC-B150 (20.0)		0750	20.0		X											1	
CC-B160 (20.0)		0746	20.0		X											1	
TS-Spoils-081513		0940	-			X										1	

JS
8/15/13

Sampled and Relinquished by	Received by
Sign	Sign
Print JOANNA SEGAL	Print
Firm Haley & Aldrich	Firm
Date 8/15/13 Time 1055	Date 8-15-13 Time 1055
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID		SOLID	
	VOA Vial		VOA Vial
	Amber Glass		Amber Glass
	Plastic Bottle	X	Clear Glass
	Preservative	A	Preservative
	Volume	8oz	Volume

RUSH

Sampling Comments

Archive all samples after analysis.

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

5.4°

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Water/NaHSO4 (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate. Laboratory should (specify if applicable) _____ analyz

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

September 2012

Form 3003

8/19/2013

Sharma, Dimple

From: Sebik, Joanna [JSebik@haleyaldrich.com]
Sent: Thursday, August 15, 2013 2:57 PM
To: Sharma, Dimple
Cc: Guthrie, Kristin; Schwartz, James
Subject: Samples on hold

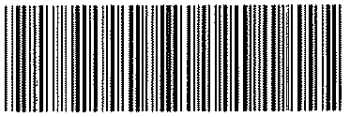
Dimple,

Per our conversation a few minutes ago, please place the following samples, which were submitted this morning, on hold:
CC-B10(8)
CC-B30(11)
CC-B50(13)
CC-B70(15)
CC-B90(16)
CC-B110(20)
CC-B130(20)
CC-B150(20)

Additionally, the geotechnical sample (unfortunately I do not have the sample login to get the ID for you) submitted on Tuesday the 12th should be analyzed for a Proctor test (compaction curve) only.

Thank you!

Joanna Sebik
Engineer
HALEY & ALDRICH
2033 North Main Street, Suite 309
Walnut Creek, CA 94596
Office: 925.949.1020
Cell: 925.357.7355
JSebik@HaleyAldrich.com
www.HaleyAldrich.com


720-51664 Chain of Custody

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51664-1

Login Number: 51664

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51679-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
8/19/2013 2:53:53 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51679-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51679-1

Job ID: 720-51679-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51679-1

Comments
No additional comments.

Receipt
The samples were received on 8/15/2013 4:38 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 10.3º C.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: TS-S1(1.0) (720-51679-1).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51679-1

Client Sample ID: TS-S1(1.0) — Lab Sample ID: 720-51679-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	340		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1600		990		mg/Kg	20		8015B	Silica Gel Cleanup

Client Sample ID: TS-S12(1.5) — Lab Sample ID: 720-51679-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	23		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	140		99		mg/Kg	2		8015B	Silica Gel Cleanup

Client Sample ID: EB-081513 — Lab Sample ID: 720-51679-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51679-1

Client Sample ID: TS-S1(1.0)
Date Collected: 08/15/13 15:36
Date Received: 08/15/13 16:38

Lab Sample ID: 720-51679-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	340		20		mg/Kg		08/15/13 17:12	08/16/13 04:09	20
Motor Oil Range Organics [C24-C36]	1600		990		mg/Kg		08/15/13 17:12	08/16/13 04:09	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/15/13 17:12*	*08/16/13 04:09*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/15/13 17:12*	*08/16/13 04:09*	*20*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51679-1

Client Sample ID: TS-S12(1.5)
Date Collected: 08/15/13 15:52
Date Received: 08/15/13 16:38

Lab Sample ID: 720-51679-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	23		2.0		mg/Kg		08/15/13 17:12	08/16/13 03:45	2
Motor Oil Range Organics [C24-C36]	140		99		mg/Kg		08/15/13 17:12	08/16/13 03:45	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/15/13 17:12*	*08/16/13 03:45*	*2*
p-Terphenyl	*85*		*38 - 148*	*08/15/13 17:12*	*08/16/13 03:45*	*2*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51679-1

Client Sample ID: EB-081513
Date Collected: 08/15/13 16:10
Date Received: 08/15/13 16:38

Lab Sample ID: 720-51679-3
Matrix: Water

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		08/15/13 17:15	08/16/13 16:55	1
Motor Oil Range Organics [C24-C36]	ND		100		ug/L		08/15/13 17:15	08/16/13 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.03*		*0 - 5*	*08/15/13 17:15*	*08/16/13 16:55*	*1*
p-Terphenyl	*74*		*31 - 150*	*08/15/13 17:15*	*08/16/13 16:55*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51679-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-142267/1-A
Matrix: Solid
Analysis Batch: 142245

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 142267

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/15/13 12:14	08/16/13 05:22	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/15/13 12:14	08/16/13 05:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/15/13 12:14*	*08/16/13 05:22*	*1*
p-Terphenyl	*93*		*38 - 148*	*08/15/13 12:14*	*08/16/13 05:22*	*1*

Lab Sample ID: LCS 720-142267/2-A
Matrix: Solid
Analysis Batch: 142245

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 142267

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.4	50.3		mg/Kg		61	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*106*		*38 - 148*

Lab Sample ID: LCSD 720-142267/3-A
Matrix: Solid
Analysis Batch: 142245

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 142267

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			83.1	48.9		mg/Kg		59	36 - 112	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*111*		*38 - 148*

Lab Sample ID: MB 720-142276/1-A
Matrix: Water
Analysis Batch: 142339

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 142276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		08/15/13 13:56	08/16/13 21:20	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		08/15/13 13:56	08/16/13 21:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 5*	*08/15/13 13:56*	*08/16/13 21:20*	*1*
p-Terphenyl	*82*		*31 - 150*	*08/15/13 13:56*	*08/16/13 21:20*	*1*

Lab Sample ID: LCS 720-142276/2-A
Matrix: Water
Analysis Batch: 142339

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 142276

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			2500	1710		ug/L		69	32 - 119		

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-142276/2-A
Matrix: Water
Analysis Batch: 142339

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 142276

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*97*		*31 - 150*

Lab Sample ID: LCSD 720-142276/3-A
Matrix: Water
Analysis Batch: 142339

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 142276

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			2500	1530		ug/L		61	32 - 119	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	*93*		*31 - 150*

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51679-1

GC Semi VOA

Analysis Batch: 142245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51679-1	TS-S1(1.0)	Silica Gel Cleanup	Solid	8015B	142267
720-51679-2	TS-S12(1.5)	Silica Gel Cleanup	Solid	8015B	142267
LCS 720-142267/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	142267
LCSD 720-142267/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	142267
MB 720-142267/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	142267

Prep Batch: 142267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51679-1	TS-S1(1.0)	Silica Gel Cleanup	Solid	3546	
720-51679-2	TS-S12(1.5)	Silica Gel Cleanup	Solid	3546	
LCS 720-142267/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-142267/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-142267/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Prep Batch: 142276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51679-3	EB-081513	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-142276/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-142276/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 720-142276/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

Analysis Batch: 142339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51679-3	EB-081513	Silica Gel Cleanup	Water	8015B	142276
LCS 720-142276/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	142276
LCSD 720-142276/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	142276
MB 720-142276/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	142276

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51679-1

Client Sample ID: TS-S1(1.0)

Lab Sample ID: 720-51679-1

Date Collected: 08/15/13 15:36

Matrix: Solid

Date Received: 08/15/13 16:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142267	08/15/13 17:12	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	142245	08/16/13 04:09	DCH	TAL PLS

Client Sample ID: TS-S12(1.5)

Lab Sample ID: 720-51679-2

Date Collected: 08/15/13 15:52

Matrix: Solid

Date Received: 08/15/13 16:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142267	08/15/13 17:12	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	142245	08/16/13 03:45	DCH	TAL PLS

Client Sample ID: EB-081513

Lab Sample ID: 720-51679-3

Date Collected: 08/15/13 16:10

Matrix: Water

Date Received: 08/15/13 16:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3510C SGC			142276	08/15/13 17:15	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142339	08/16/13 16:55	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51679-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51679-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51679-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51679-1	TS-S1(1.0)	Solid	08/15/13 15:36	08/15/13 16:38
720-51679-2	TS-S12(1.5)	Solid	08/15/13 15:52	08/15/13 16:38
720-51679-3	EB-081513	Water	08/15/13 16:10	08/15/13 16:38

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 Fax: (925) 600-3002

720-51679

Reference #: 147970

Date 8/15/13 Page 1 of 1

8/19/2013

Report To

Attn: Kouthrie
Company: Haley & Aldrich
Address: 2033 N Main St, Walnut Creek
Email: KOUTHRIE@haleyaldrich.com
Bill To: HA
Sampled By: J Sebik
Attn:
Phone: 925 357 7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals, ☐ 6020 ☐ 200.8 (ICP-MS):	☐ WET (STLC) ☐ WET (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
TS-S1(1.0)	8/15/13	1536	S	-				X																		1
TS-S2(1.5)	8/15/13	1552	S	-				X																		1
EB 081513	8/15/13	1610	W	-				X																		2

720-51679 Chain of Custody

RUSH

JS 8/15/13

Page 16 of 17

Project Info

Project Name/ #: Former Hanson Aggregate Facility
PO#: 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 10.3°C <4hrs

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | (1 Day) | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by
Signature: [signature] Time: 1638	Signature: Time:	Signature: Time:
Printed Name: Joanna Sebik Date: 8/15/13	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1638	Signature: Time:	Signature: Time:
Printed Name: Mullen Date: 8-15-13	Printed Name: Date:	Printed Name: Date:
Company: Test Amer	Company:	Company:

Rev 10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51679-1

Login Number: 51679

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51718-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
8/19/2013 3:50:19 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51718-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51718-1

Comments
No additional comments.

Receipt
The samples were received on 8/16/2013 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 6.2° C.

GC/MS VOA
No analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-1

Client Sample ID: EB-081613 — Lab Sample ID: 720-51718-1

No Detections.

Client Sample ID: EX7-S5(3.0) — Lab Sample ID: 720-51718-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	500		25		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1800		1200		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: EX7-S6(3.5) — Lab Sample ID: 720-51718-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	460		25		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1800		1200		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: EX7-SPOILS — Lab Sample ID: 720-51718-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2000		49		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	5700		2500		mg/Kg	20		8015B	Silica Gel Cleanup
Antimony	3.9		1.9		mg/Kg	4		6010B	Total/NA
Arsenic	3.7		3.7		mg/Kg	4		6010B	Total/NA
Barium	140		1.9		mg/Kg	4		6010B	Total/NA
Chromium	39		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	9.8		0.75		mg/Kg	4		6010B	Total/NA
Copper	44		5.6		mg/Kg	4		6010B	Total/NA
Lead	110		1.9		mg/Kg	4		6010B	Total/NA
Molybdenum	4.2		1.9		mg/Kg	4		6010B	Total/NA
Nickel	66		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	37		1.9		mg/Kg	4		6010B	Total/NA
Zinc	100		5.6		mg/Kg	4		6010B	Total/NA
Mercury	0.097		0.0094		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX6-SPOILS — Lab Sample ID: 720-51718-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	41		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	120		49		mg/Kg	1		8015B	Silica Gel Cleanup
Arsenic	4.5		3.7		mg/Kg	4		6010B	Total/NA
Barium	110		1.9		mg/Kg	4		6010B	Total/NA
Chromium	40		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	10		0.74		mg/Kg	4		6010B	Total/NA
Copper	34		5.6		mg/Kg	4		6010B	Total/NA
Lead	7.9		1.9		mg/Kg	4		6010B	Total/NA
Nickel	58		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	39		1.9		mg/Kg	4		6010B	Total/NA
Zinc	46		5.6		mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-1

Client Sample ID: EX6-SPOILS (Continued)

Lab Sample ID: 720-51718-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.046		0.0092		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-1

Client Sample ID: EB-081613
Date Collected: 08/16/13 16:31
Date Received: 08/16/13 16:40

Lab Sample ID: 720-51718-1
Matrix: Water

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		51		ug/L		08/18/13 09:32	08/18/13 20:53	1
Motor Oil Range Organics [C24-C36]	ND		100		ug/L		08/18/13 09:32	08/18/13 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 5*	*08/18/13 09:32*	*08/18/13 20:53*	*1*
p-Terphenyl	*70*		*31 - 150*	*08/18/13 09:32*	*08/18/13 20:53*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-1

Client Sample ID: EX7-S5(3.0)
Date Collected: 08/16/13 15:17
Date Received: 08/16/13 16:40

Lab Sample ID: 720-51718-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	500		25		mg/Kg		08/17/13 14:14	08/19/13 10:51	10
Motor Oil Range Organics [C24-C36]	1800		1200		mg/Kg		08/17/13 14:14	08/19/13 10:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/17/13 14:14*	*08/19/13 10:51*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/17/13 14:14*	*08/19/13 10:51*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-1

Client Sample ID: EX7-S6(3.5)
Date Collected: 08/16/13 15:20
Date Received: 08/16/13 16:40

Lab Sample ID: 720-51718-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	460		25		mg/Kg		08/17/13 14:14	08/19/13 11:15	10
Motor Oil Range Organics [C24-C36]	1800		1200		mg/Kg		08/17/13 14:14	08/19/13 11:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/17/13 14:14*	*08/19/13 11:15*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/17/13 14:14*	*08/19/13 11:15*	*10*

Client Sample ID: EX7-SPOILS
Date Collected: 08/16/13 14:48
Date Received: 08/16/13 16:40

Lab Sample ID: 720-51718-8
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/16/13 18:20	08/16/13 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*45 - 131*	*08/16/13 18:20*	*08/16/13 19:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*	*08/16/13 18:20*	*08/16/13 19:12*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*08/16/13 18:20*	*08/16/13 19:12*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2000**		49		mg/Kg		08/17/13 14:14	08/19/13 11:40	20
Motor Oil Range Organics [C24-C36]	**5700**		2500		mg/Kg		08/17/13 14:14	08/19/13 11:40	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/17/13 14:14*	*08/19/13 11:40*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*08/17/13 14:14*	*08/19/13 11:40*	*20*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.9**		1.9		mg/Kg		08/17/13 11:37	08/18/13 11:00	4
Arsenic	**3.7**		3.7		mg/Kg		08/17/13 11:37	08/18/13 11:00	4
Barium	**140**		1.9		mg/Kg		08/17/13 11:37	08/18/13 11:00	4
Beryllium	ND		0.37		mg/Kg		08/17/13 11:37	08/18/13 11:00	4
Cadmium	ND		0.47		mg/Kg		08/17/13 11:37	08/18/13 11:00	4
Chromium	**39**		1.9		mg/Kg		08/17/13 11:37	08/18/13 11:00	4
Cobalt	**9.8**		0.75		mg/Kg		08/17/13 11:37	08/18/13 11:00	4
Copper	**44**		5.6		mg/Kg		08/17/13 11:37	08/18/13 11:00	4
Lead	**110**		1.9		mg/Kg		08/17/13 11:37	08/18/13 11:00	4
Molybdenum	**4.2**		1.9		mg/Kg		08/17/13 11:37	08/18/13 11:00	4
Nickel	**66**		1.9		mg/Kg		08/17/13 11:37	08/18/13 11:00	4
Selenium	ND		3.7		mg/Kg		08/17/13 11:37	08/18/13 11:00	4
Silver	ND		0.93		mg/Kg		08/17/13 11:37	08/18/13 11:00	4
Thallium	ND		1.9		mg/Kg		08/17/13 11:37	08/18/13 11:00	4
Vanadium	**37**		1.9		mg/Kg		08/17/13 11:37	08/18/13 11:00	4
Zinc	**100**		5.6		mg/Kg		08/17/13 11:37	08/18/13 11:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.097**		0.0094		mg/Kg		08/17/13 15:26	08/18/13 11:23	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-1

Client Sample ID: EX6-SPOILS
Date Collected: 08/16/13 14:55
Date Received: 08/16/13 16:40

Lab Sample ID: 720-51718-13
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/16/13 18:20	08/16/13 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*45 - 131*	*08/16/13 18:20*	*08/16/13 19:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*	*08/16/13 18:20*	*08/16/13 19:40*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*	*08/16/13 18:20*	*08/16/13 19:40*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**41**		0.99		mg/Kg		08/17/13 14:14	08/19/13 02:59	1
Motor Oil Range Organics [C24-C36]	**120**		49		mg/Kg		08/17/13 14:14	08/19/13 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.04*		*0 - 1*	*08/17/13 14:14*	*08/19/13 02:59*	*1*
p-Terphenyl	*106*		*38 - 148*	*08/17/13 14:14*	*08/19/13 02:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		08/17/13 11:37	08/18/13 11:05	4
Arsenic	**4.5**		3.7		mg/Kg		08/17/13 11:37	08/18/13 11:05	4
Barium	**110**		1.9		mg/Kg		08/17/13 11:37	08/18/13 11:05	4
Beryllium	ND		0.37		mg/Kg		08/17/13 11:37	08/18/13 11:05	4
Cadmium	ND		0.46		mg/Kg		08/17/13 11:37	08/18/13 11:05	4
Chromium	**40**		1.9		mg/Kg		08/17/13 11:37	08/18/13 11:05	4
Cobalt	**10**		0.74		mg/Kg		08/17/13 11:37	08/18/13 11:05	4
Copper	**34**		5.6		mg/Kg		08/17/13 11:37	08/18/13 11:05	4
Lead	**7.9**		1.9		mg/Kg		08/17/13 11:37	08/18/13 11:05	4
Molybdenum	ND		1.9		mg/Kg		08/17/13 11:37	08/18/13 11:05	4
Nickel	**58**		1.9		mg/Kg		08/17/13 11:37	08/18/13 11:05	4
Selenium	ND		3.7		mg/Kg		08/17/13 11:37	08/18/13 11:05	4
Silver	ND		0.93		mg/Kg		08/17/13 11:37	08/18/13 11:05	4
Thallium	ND		1.9		mg/Kg		08/17/13 11:37	08/18/13 11:05	4
Vanadium	**39**		1.9		mg/Kg		08/17/13 11:37	08/18/13 11:05	4
Zinc	**46**		5.6		mg/Kg		08/17/13 11:37	08/18/13 11:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.046**		0.0092		mg/Kg		08/17/13 15:26	08/18/13 11:25	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-142331/4
Matrix: Solid
Analysis Batch: 142331

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			08/16/13 09:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*45 - 131*		*08/16/13 09:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*		*08/16/13 09:27*	*1*
Toluene-d8 (Surr)	*99*		*58 - 140*		*08/16/13 09:27*	*1*

Lab Sample ID: LCS 720-142331/7
Matrix: Solid
Analysis Batch: 142331

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			1000	961		ug/Kg		96	61 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: LCSD 720-142331/8
Matrix: Solid
Analysis Batch: 142331

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	978		ug/Kg		98	61 - 128	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*100*		*58 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-142426/1-A
Matrix: Solid
Analysis Batch: 142448

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 142426

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/17/13 14:14	08/19/13 00:33	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/17/13 14:14	08/19/13 00:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.005*		*0 - 1*	*08/17/13 14:14*	*08/19/13 00:33*	*1*
p-Terphenyl	*106*		*38 - 148*	*08/17/13 14:14*	*08/19/13 00:33*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-142426/2-A
Matrix: Solid
Analysis Batch: 142448

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 142426

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.0	62.3		mg/Kg		76	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*120*		*38 - 148*

Lab Sample ID: LCSD 720-142426/3-A
Matrix: Solid
Analysis Batch: 142448

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 142426

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.4	66.8		mg/Kg		81	36 - 112	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*122*		*38 - 148*

Lab Sample ID: MB 720-142433/1-A
Matrix: Water
Analysis Batch: 142449

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 142433

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		08/18/13 09:32	08/18/13 19:39	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		08/18/13 09:32	08/18/13 19:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.05*		*0 - 5*	*08/18/13 09:32*	*08/18/13 19:39*	*1*
p-Terphenyl	*97*		*31 - 150*	*08/18/13 09:32*	*08/18/13 19:39*	*1*

Lab Sample ID: LCS 720-142433/2-A
Matrix: Water
Analysis Batch: 142449

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 142433

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			2500	1630		ug/L		65	32 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*107*		*31 - 150*

Lab Sample ID: LCSD 720-142433/3-A
Matrix: Water
Analysis Batch: 142449

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 142433

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			2500	1660		ug/L		67	32 - 119	2	35

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-142433/3-A
Matrix: Water
Analysis Batch: 142449

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 142433

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*111*		*31 - 150*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-142363/1-A
Matrix: Solid
Analysis Batch: 142441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 142363

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		08/16/13 14:04	08/18/13 10:30	1
Arsenic	ND		1.0		mg/Kg		08/16/13 14:04	08/18/13 10:30	1
Barium	ND		0.50		mg/Kg		08/16/13 14:04	08/18/13 10:30	1
Beryllium	ND		0.10		mg/Kg		08/16/13 14:04	08/18/13 10:30	1
Cadmium	ND		0.13		mg/Kg		08/16/13 14:04	08/18/13 10:30	1
Chromium	ND		0.50		mg/Kg		08/16/13 14:04	08/18/13 10:30	1
Cobalt	ND		0.20		mg/Kg		08/16/13 14:04	08/18/13 10:30	1
Copper	ND		1.5		mg/Kg		08/16/13 14:04	08/18/13 10:30	1
Lead	ND		0.50		mg/Kg		08/16/13 14:04	08/18/13 10:30	1
Molybdenum	ND		0.50		mg/Kg		08/16/13 14:04	08/18/13 10:30	1
Nickel	ND		0.50		mg/Kg		08/16/13 14:04	08/18/13 10:30	1
Selenium	ND		1.0		mg/Kg		08/16/13 14:04	08/18/13 10:30	1
Silver	ND		0.25		mg/Kg		08/16/13 14:04	08/18/13 10:30	1
Thallium	ND		0.50		mg/Kg		08/16/13 14:04	08/18/13 10:30	1
Vanadium	ND		0.50		mg/Kg		08/16/13 14:04	08/18/13 10:30	1
Zinc	ND		1.5		mg/Kg		08/16/13 14:04	08/18/13 10:30	1

Lab Sample ID: LCS 720-142363/2-A
Matrix: Solid
Analysis Batch: 142441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 142363

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.1		mg/Kg		94	80 - 120
Arsenic	50.0	47.5		mg/Kg		95	80 - 120
Barium	50.0	48.7		mg/Kg		97	80 - 120
Beryllium	50.0	49.1		mg/Kg		98	80 - 120
Cadmium	50.0	48.0		mg/Kg		96	80 - 120
Chromium	50.0	48.8		mg/Kg		98	80 - 120
Cobalt	50.0	49.2		mg/Kg		98	80 - 120
Copper	50.0	48.9		mg/Kg		98	80 - 120
Lead	50.0	49.2		mg/Kg		98	80 - 120
Molybdenum	50.0	49.2		mg/Kg		98	80 - 120
Nickel	50.0	49.3		mg/Kg		99	80 - 120
Selenium	50.0	46.4		mg/Kg		93	80 - 120
Silver	25.0	23.8		mg/Kg		95	80 - 120
Thallium	50.0	49.5		mg/Kg		99	80 - 120
Vanadium	50.0	48.3		mg/Kg		97	80 - 120
Zinc	50.0	48.0		mg/Kg		96	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 720-142363/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 142441 — **Prep Batch: 142363**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony			50.0	48.8		mg/Kg		98	80 - 120	4	20
Arsenic			50.0	49.2		mg/Kg		98	80 - 120	3	20
Barium			50.0	50.8		mg/Kg		102	80 - 120	4	20
Beryllium			50.0	51.0		mg/Kg		102	80 - 120	4	20
Cadmium			50.0	49.7		mg/Kg		99	80 - 120	4	20
Chromium			50.0	55.4		mg/Kg		111	80 - 120	13	20
Cobalt			50.0	50.9		mg/Kg		102	80 - 120	3	20
Copper			50.0	55.8		mg/Kg		112	80 - 120	13	20
Lead			50.0	50.7		mg/Kg		101	80 - 120	3	20
Molybdenum			50.0	51.1		mg/Kg		102	80 - 120	4	20
Nickel			50.0	50.8		mg/Kg		102	80 - 120	3	20
Selenium			50.0	47.9		mg/Kg		96	80 - 120	3	20
Silver			25.0	27.2		mg/Kg		109	80 - 120	13	20
Thallium			50.0	51.2		mg/Kg		102	80 - 120	3	20
Vanadium			50.0	55.0		mg/Kg		110	80 - 120	13	20
Zinc			50.0	49.7		mg/Kg		99	80 - 120	3	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-142428/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 142439 — **Prep Batch: 142428**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		08/17/13 15:26	08/18/13 10:40	1

Lab Sample ID: LCS 720-142428/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 142439 — **Prep Batch: 142428**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.788		mg/Kg		95	80 - 120		

Lab Sample ID: LCSD 720-142428/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 142439 — **Prep Batch: 142428**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.833	0.842		mg/Kg		101	80 - 120	7	20

GC/MS VOA

Analysis Batch: 142331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-8	EX7-SPOILS	Total/NA	Solid	8260B/CA_LUFT MS	142356
720-51718-13	EX6-SPOILS	Total/NA	Solid	8260B/CA_LUFT MS	142356
LCS 720-142331/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-142331/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-142331/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 142356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-8	EX7-SPOILS	Total/NA	Solid	5030B	
720-51718-13	EX6-SPOILS	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 142426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-2	EX7-S5(3.0)	Silica Gel Cleanup	Solid	3546	
720-51718-3	EX7-S6(3.5)	Silica Gel Cleanup	Solid	3546	
720-51718-8	EX7-SPOILS	Silica Gel Cleanup	Solid	3546	
720-51718-13	EX6-SPOILS	Silica Gel Cleanup	Solid	3546	
LCS 720-142426/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-142426/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-142426/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Prep Batch: 142433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-1	EB-081613	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-142433/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-142433/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 720-142433/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

Analysis Batch: 142448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-142426/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	142426
LCSD 720-142426/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	142426
MB 720-142426/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	142426

Analysis Batch: 142449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-1	EB-081613	Silica Gel Cleanup	Water	8015B	142433
720-51718-13	EX6-SPOILS	Silica Gel Cleanup	Solid	8015B	142426
LCS 720-142433/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	142433
LCSD 720-142433/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	142433
MB 720-142433/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	142433

Analysis Batch: 142462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-2	EX7-S5(3.0)	Silica Gel Cleanup	Solid	8015B	142426

GC Semi VOA (Continued)

Analysis Batch: 142462 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-3	EX7-S6(3.5)	Silica Gel Cleanup	Solid	8015B	142426
720-51718-8	EX7-SPOILS	Silica Gel Cleanup	Solid	8015B	142426

Metals

Prep Batch: 142363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-8	EX7-SPOILS	Total/NA	Solid	3050B	
720-51718-13	EX6-SPOILS	Total/NA	Solid	3050B	
LCS 720-142363/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-142363/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-142363/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 142428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-8	EX7-SPOILS	Total/NA	Solid	7471A	
720-51718-13	EX6-SPOILS	Total/NA	Solid	7471A	
LCS 720-142428/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-142428/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-142428/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 142439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-8	EX7-SPOILS	Total/NA	Solid	7471A	142428
720-51718-13	EX6-SPOILS	Total/NA	Solid	7471A	142428
LCS 720-142428/2-A	Lab Control Sample	Total/NA	Solid	7471A	142428
LCSD 720-142428/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	142428
MB 720-142428/1-A	Method Blank	Total/NA	Solid	7471A	142428

Analysis Batch: 142441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-8	EX7-SPOILS	Total/NA	Solid	6010B	142363
720-51718-13	EX6-SPOILS	Total/NA	Solid	6010B	142363
LCS 720-142363/2-A	Lab Control Sample	Total/NA	Solid	6010B	142363
LCSD 720-142363/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	142363
MB 720-142363/1-A	Method Blank	Total/NA	Solid	6010B	142363

Client Sample ID: EB-081613

Lab Sample ID: 720-51718-1

Date Collected: 08/16/13 16:31

Matrix: Water

Date Received: 08/16/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3510C SGC			142433	08/18/13 09:32	JRM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142449	08/18/13 20:53	DCH	TAL PLS

Client Sample ID: EX7-S5(3.0)

Lab Sample ID: 720-51718-2

Date Collected: 08/16/13 15:17

Matrix: Solid

Date Received: 08/16/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142426	08/17/13 14:14	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	142462	08/19/13 10:51	DCH	TAL PLS

Client Sample ID: EX7-S6(3.5)

Lab Sample ID: 720-51718-3

Date Collected: 08/16/13 15:20

Matrix: Solid

Date Received: 08/16/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			142426	08/17/13 14:14	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	142462	08/19/13 11:15	DCH	TAL PLS

Client Sample ID: EX7-SPOILS

Lab Sample ID: 720-51718-8

Date Collected: 08/16/13 14:48

Matrix: Solid

Date Received: 08/16/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			142356	08/16/13 18:20	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	142331	08/16/13 19:12	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			142426	08/17/13 14:14	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	142462	08/19/13 11:40	DCH	TAL PLS
Total/NA	Prep	7471A			142428	08/17/13 15:26	CTD	TAL PLS
Total/NA	Analysis	7471A		1	142439	08/18/13 11:23	EFH	TAL PLS
Total/NA	Prep	3050B			142363	08/17/13 11:37	CTD	TAL PLS
Total/NA	Analysis	6010B		4	142441	08/18/13 11:00	EFH	TAL PLS

Client Sample ID: EX6-SPOILS

Lab Sample ID: 720-51718-13

Date Collected: 08/16/13 14:55

Matrix: Solid

Date Received: 08/16/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			142356	08/16/13 18:20	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	142331	08/16/13 19:40	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			142426	08/17/13 14:14	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142449	08/19/13 02:59	DCH	TAL PLS
Total/NA	Prep	7471A			142428	08/17/13 15:26	CTD	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-1

Client Sample ID: EX6-SPOILS
Date Collected: 08/16/13 14:55
Date Received: 08/16/13 16:40

Lab Sample ID: 720-51718-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		1	142439	08/18/13 11:25	EFH	TAL PLS
Total/NA	Prep	3050B			142363	08/17/13 11:37	CTD	TAL PLS
Total/NA	Analysis	6010B		4	142441	08/18/13 11:05	EFH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51718-1	EB-081613	Water	08/16/13 16:31	08/16/13 16:40
720-51718-2	EX7-S5(3.0)	Solid	08/16/13 15:17	08/16/13 16:40
720-51718-3	EX7-S6(3.5)	Solid	08/16/13 15:20	08/16/13 16:40
720-51718-8	EX7-SPOILS	Solid	08/16/13 14:48	08/16/13 16:40
720-51718-13	EX6-SPOILS	Solid	08/16/13 14:55	08/16/13 16:40

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-51718

Reference #: 148006

Date 8/16/13 Page 1 of 1

8/19/2013

Report To

Attn: K GUTHRIE
Company: Haley & Aldrich Inc
Address: 2033 W Main St Walnut Creek
Email: KGuthrie@haleyaldrich.com
Bill To: H&A
Sampled By: J Sebia
Attn:
Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B. ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS)	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Composite 4 jars in lab	TPHG	Number of Containers
EB-081613	8/16/13	1631	W	—				X																	2
EX7-S5(3.0)		1517	S	—				X																	1
EX7-S6(3.5)		1520	S	—				X																	1
EX7-Spoils		1448	S	—				X					X										X	X	4
EX6-Spoils		1455	S	—				X					X										X	X	4

RUSH

JS
8/16/13

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Project Info.

Project Name / #: Former Hanson Aggregate Facility
PO#: 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp. 6.2°C

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other:
						(1 Day)	

Report. ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by: Joanna Sebia 1640
Signature Time
JOANNA SEBIA 8/16/13
Printed Name Date
Haley & Aldrich, Inc
Company

2) Relinquished by:
Signature Time
Printed Name
Company

3) Relinquished by:
Signature Time
Printed Name
Company
Date

720-51718 Chain of Custody

1) Received by: Joanna Sebia 1640
Signature Time
Mallory 8/16/13
Printed Name Date
Test America
Company

2) Received by:
Signature Time
Printed Name Date
Company

Signature Time
Printed Name Date
Company

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51718-1

Login Number: 51718

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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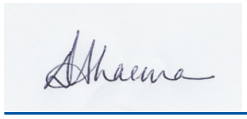
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51718-2
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie



Authorized for release by:
9/3/2013 11:57:37 AM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51718-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51718-2

Comments
No additional comments.

Receipt
The samples were received on 8/16/2013 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 6.2° C.

Metals
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-2

Client Sample ID: EX7-SPOILS

Lab Sample ID: 720-51718-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	5.4		0.13		mg/L	2.5		6010B	STLC Citrate

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-2

Client Sample ID: EX7-SPOILS
Date Collected: 08/16/13 14:48
Date Received: 08/16/13 16:40

Lab Sample ID: 720-51718-8
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.4		0.13		mg/L		08/31/13 14:15	09/03/13 10:19	2.5

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-143458/1-A
Matrix: Solid
Analysis Batch: 143498

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 143458

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050		mg/L		08/31/13 14:15	09/03/13 09:53	1

Lab Sample ID: LCS 720-143458/2-A
Matrix: Solid
Analysis Batch: 143498

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 143458

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	0.865		mg/L		87	80 - 120

Lab Sample ID: LCSD 720-143458/3-A
Matrix: Solid
Analysis Batch: 143498

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 143458

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.00	0.877		mg/L		88	80 - 120	1	20

Lab Sample ID: LB4 720-143255/1-C LB4
Matrix: Solid
Analysis Batch: 143498

Client Sample ID: Method Blank
Prep Type: STLC Citrate
Prep Batch: 143458

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.13		mg/L		08/31/13 14:15	09/03/13 10:05	2.5

Lab Sample ID: 720-51718-8 MS
Matrix: Solid
Analysis Batch: 143498

Client Sample ID: EX7-SPOILS
Prep Type: STLC Citrate
Prep Batch: 143458

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	5.4		10.0	13.5		mg/L		81	75 - 125

Lab Sample ID: 720-51718-8 MSD
Matrix: Solid
Analysis Batch: 143498

Client Sample ID: EX7-SPOILS
Prep Type: STLC Citrate
Prep Batch: 143458

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	5.4		10.0	13.7		mg/L		83	75 - 125	2	20

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-2

Metals

Leach Batch: 143255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-8	EX7-SPOILS	STLC Citrate	Solid	CA WET Citrate	
720-51718-8 MS	EX7-SPOILS	STLC Citrate	Solid	CA WET Citrate	
720-51718-8 MSD	EX7-SPOILS	STLC Citrate	Solid	CA WET Citrate	
LB4 720-143255/1-C LB4	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 143458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-8	EX7-SPOILS	STLC Citrate	Solid	3005A	143255
720-51718-8 MS	EX7-SPOILS	STLC Citrate	Solid	3005A	143255
720-51718-8 MSD	EX7-SPOILS	STLC Citrate	Solid	3005A	143255
LB4 720-143255/1-C LB4	Method Blank	STLC Citrate	Solid	3005A	143255
LCS 720-143458/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-143458/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-143458/1-A	Method Blank	Total Recoverable	Solid	3005A	

Analysis Batch: 143498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-8	EX7-SPOILS	STLC Citrate	Solid	6010B	143458
720-51718-8 MS	EX7-SPOILS	STLC Citrate	Solid	6010B	143458
720-51718-8 MSD	EX7-SPOILS	STLC Citrate	Solid	6010B	143458
LB4 720-143255/1-C LB4	Method Blank	STLC Citrate	Solid	6010B	143458
LCS 720-143458/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	143458
LCSD 720-143458/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	143458
MB 720-143458/1-A	Method Blank	Total Recoverable	Solid	6010B	143458

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-2

Client Sample ID: EX7-SPOILS
Date Collected: 08/16/13 14:48
Date Received: 08/16/13 16:40

Lab Sample ID: 720-51718-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			143255	08/29/13 09:28	ASB	TAL PLS
STLC Citrate	Prep	3005A			143458	08/31/13 14:15	ASB	TAL PLS
STLC Citrate	Analysis	6010B		2.5	143498	09/03/13 10:19	EFH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-2

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51718-8	EX7-SPOILS	Solid	08/16/13 14:48	08/16/13 16:40

Salimpour, Afsaneh 720-51718-2

From: Sebik, Joanna [JSebik@haleyaldrich.com]
Sent: Wednesday, August 28, 2013 1:36 PM
To: Sharma, Dimple; Salimpour, Afsaneh
Cc: Guthrie, Kristin
Subject: Haley & Aldrich Archived Samples run for Cr and Pb by STLC

Importance: High

Afsaneh,

We submitted some 4-point composite samples on 8/16 and 8/19, which now need to be run for Chromium and Lead by STLC on a 48 hour TAT. Would you still have these samples to analyze?

Chromium by STLC:
from 720-51729-1 (8/19) samples EX4-Spoils, EX3/4-Spoils, and CS-Spoils from 720-51739-1 (8/19) samples EX9-Spoils and EX10-Spoils

Lead by STLC:
from 720-51718-1 (8/16) sample EX7-Spoils

My email is not currently working on my cell phone so please give me a call at 925-357-7355 if there are any issues or questions.

Thank you,

Joanna Sebik
Engineer
HALEY & ALDRICH
2033 North Main Street, Suite 309
Walnut Creek, CA 94596
Office: 925.949.1020
Cell: 925.357.7355
JSebik@HaleyAldrich.com
www.HaleyAldrich.com

RUSH



720-51718 Chain of Custody

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51718-2

Login Number: 51718

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51718-3
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
9/3/2013 1:58:28 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-3

Job ID: 720-51718-3

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51718-3

Comments
No additional comments.

Receipt
The samples were received on 8/16/2013 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 6.2º C.

GC/MS VOA
Method 8260B: Internal standard response for the following sample 51718-8 exceeded the lower control limit and confirmed by reanalysis.

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-3

Client Sample ID: EX7-SPOILS — Lab Sample ID: 720-51718-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	13		9.1		ug/Kg	1		8260B	Total/NA

Client Sample ID: EX6-SPOILS — Lab Sample ID: 720-51718-13

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-3

Client Sample ID: EX7-SPOILS
Date Collected: 08/16/13 14:48
Date Received: 08/16/13 16:40

Lab Sample ID: 720-51718-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Acetone	ND		45		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Benzene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Dichlorobromomethane	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Bromobenzene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Chlorobromomethane	ND		18		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Bromoform	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Bromomethane	ND		9.1		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
2-Butanone (MEK)	ND		45		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
n-Butylbenzene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
sec-Butylbenzene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
tert-Butylbenzene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Carbon disulfide	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Carbon tetrachloride	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Chlorobenzene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Chloroethane	ND		9.1		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Chloroform	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Chloromethane	ND		9.1		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
2-Chlorotoluene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
4-Chlorotoluene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Chlorodibromomethane	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,2-Dichlorobenzene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,3-Dichlorobenzene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,4-Dichlorobenzene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,3-Dichloropropane	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,1-Dichloropropene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,2-Dibromo-3-Chloropropane	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Ethylene Dibromide	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Dibromomethane	ND		9.1		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Dichlorodifluoromethane	ND		9.1		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,1-Dichloroethane	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,2-Dichloroethane	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,1-Dichloroethene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
cis-1,2-Dichloroethene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
trans-1,2-Dichloroethene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,2-Dichloropropane	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
cis-1,3-Dichloropropene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
trans-1,3-Dichloropropene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Ethylbenzene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Hexachlorobutadiene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
2-Hexanone	ND		45		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Isopropylbenzene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
4-Isopropyltoluene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Methylene Chloride	**13**		9.1		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
4-Methyl-2-pentanone (MIBK)	ND		45		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Naphthalene	ND		9.1		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
N-Propylbenzene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Styrene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,1,1,2-Tetrachloroethane	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-3

Client Sample ID: EX7-SPOILS
Date Collected: 08/16/13 14:48
Date Received: 08/16/13 16:40

Lab Sample ID: 720-51718-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Tetrachloroethene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Toluene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,2,3-Trichlorobenzene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,2,4-Trichlorobenzene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,1,1-Trichloroethane	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,1,2-Trichloroethane	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Trichloroethene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Trichlorofluoromethane	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,2,3-Trichloropropane	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,2,4-Trimethylbenzene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
1,3,5-Trimethylbenzene	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Vinyl acetate	ND		45		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Vinyl chloride	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
Xylenes, Total	ND		9.1		ug/Kg		08/30/13 09:00	08/30/13 11:07	1
2,2-Dichloropropane	ND		4.5		ug/Kg		08/30/13 09:00	08/30/13 11:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*77*		*45 - 131*	*08/30/13 09:00*	*08/30/13 11:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*	*08/30/13 09:00*	*08/30/13 11:07*	*1*
Toluene-d8 (Surr)	*90*		*58 - 140*	*08/30/13 09:00*	*08/30/13 11:07*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-3

Client Sample ID: EX6-SPOILS
Date Collected: 08/16/13 14:55
Date Received: 08/16/13 16:40

Lab Sample ID: 720-51718-13
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Acetone	ND		50		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Benzene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Bromobenzene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Chlorobromomethane	ND		20		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Bromoform	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Bromomethane	ND		9.9		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
2-Butanone (MEK)	ND		50		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
n-Butylbenzene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Carbon disulfide	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Chlorobenzene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Chloroethane	ND		9.9		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Chloroform	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Chloromethane	ND		9.9		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Dibromomethane	ND		9.9		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Ethylbenzene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
2-Hexanone	ND		50		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Isopropylbenzene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Methylene Chloride	ND		9.9		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Naphthalene	ND		9.9		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
N-Propylbenzene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Styrene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-3

Client Sample ID: EX6-SPOILS
Date Collected: 08/16/13 14:55
Date Received: 08/16/13 16:40

Lab Sample ID: 720-51718-13
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Tetrachloroethene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Toluene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Trichloroethene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Vinyl acetate	ND		50		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Vinyl chloride	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
Xylenes, Total	ND		9.9		ug/Kg		08/30/13 09:00	08/30/13 11:35	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/30/13 09:00	08/30/13 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*45 - 131*	*08/30/13 09:00*	*08/30/13 11:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*	*08/30/13 09:00*	*08/30/13 11:35*	*1*
Toluene-d8 (Surr)	*96*		*58 - 140*	*08/30/13 09:00*	*08/30/13 11:35*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-143359/4
Matrix: Solid
Analysis Batch: 143359

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			08/30/13 08:49	1
Acetone	ND		50		ug/Kg			08/30/13 08:49	1
Benzene	ND		5.0		ug/Kg			08/30/13 08:49	1
Dichlorobromomethane	ND		5.0		ug/Kg			08/30/13 08:49	1
Bromobenzene	ND		5.0		ug/Kg			08/30/13 08:49	1
Chlorobromomethane	ND		20		ug/Kg			08/30/13 08:49	1
Bromoform	ND		5.0		ug/Kg			08/30/13 08:49	1
Bromomethane	ND		10		ug/Kg			08/30/13 08:49	1
2-Butanone (MEK)	ND		50		ug/Kg			08/30/13 08:49	1
n-Butylbenzene	ND		5.0		ug/Kg			08/30/13 08:49	1
sec-Butylbenzene	ND		5.0		ug/Kg			08/30/13 08:49	1
tert-Butylbenzene	ND		5.0		ug/Kg			08/30/13 08:49	1
Carbon disulfide	ND		5.0		ug/Kg			08/30/13 08:49	1
Carbon tetrachloride	ND		5.0		ug/Kg			08/30/13 08:49	1
Chlorobenzene	ND		5.0		ug/Kg			08/30/13 08:49	1
Chloroethane	ND		10		ug/Kg			08/30/13 08:49	1
Chloroform	ND		5.0		ug/Kg			08/30/13 08:49	1
Chloromethane	ND		10		ug/Kg			08/30/13 08:49	1
2-Chlorotoluene	ND		5.0		ug/Kg			08/30/13 08:49	1
4-Chlorotoluene	ND		5.0		ug/Kg			08/30/13 08:49	1
Chlorodibromomethane	ND		5.0		ug/Kg			08/30/13 08:49	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			08/30/13 08:49	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			08/30/13 08:49	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			08/30/13 08:49	1
1,3-Dichloropropane	ND		5.0		ug/Kg			08/30/13 08:49	1
1,1-Dichloropropene	ND		5.0		ug/Kg			08/30/13 08:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			08/30/13 08:49	1
Ethylene Dibromide	ND		5.0		ug/Kg			08/30/13 08:49	1
Dibromomethane	ND		10		ug/Kg			08/30/13 08:49	1
Dichlorodifluoromethane	ND		10		ug/Kg			08/30/13 08:49	1
1,1-Dichloroethane	ND		5.0		ug/Kg			08/30/13 08:49	1
1,2-Dichloroethane	ND		5.0		ug/Kg			08/30/13 08:49	1
1,1-Dichloroethene	ND		5.0		ug/Kg			08/30/13 08:49	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			08/30/13 08:49	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			08/30/13 08:49	1
1,2-Dichloropropane	ND		5.0		ug/Kg			08/30/13 08:49	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			08/30/13 08:49	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			08/30/13 08:49	1
Ethylbenzene	ND		5.0		ug/Kg			08/30/13 08:49	1
Hexachlorobutadiene	ND		5.0		ug/Kg			08/30/13 08:49	1
2-Hexanone	ND		50		ug/Kg			08/30/13 08:49	1
Isopropylbenzene	ND		5.0		ug/Kg			08/30/13 08:49	1
4-Isopropyltoluene	ND		5.0		ug/Kg			08/30/13 08:49	1
Methylene Chloride	ND		10		ug/Kg			08/30/13 08:49	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			08/30/13 08:49	1
Naphthalene	ND		10		ug/Kg			08/30/13 08:49	1
N-Propylbenzene	ND		5.0		ug/Kg			08/30/13 08:49	1
Styrene	ND		5.0		ug/Kg			08/30/13 08:49	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-143359/4
Matrix: Solid
Analysis Batch: 143359

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			08/30/13 08:49	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			08/30/13 08:49	1
Tetrachloroethene	ND		5.0		ug/Kg			08/30/13 08:49	1
Toluene	ND		5.0		ug/Kg			08/30/13 08:49	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			08/30/13 08:49	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			08/30/13 08:49	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			08/30/13 08:49	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			08/30/13 08:49	1
Trichloroethene	ND		5.0		ug/Kg			08/30/13 08:49	1
Trichlorofluoromethane	ND		5.0		ug/Kg			08/30/13 08:49	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			08/30/13 08:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			08/30/13 08:49	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			08/30/13 08:49	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			08/30/13 08:49	1
Vinyl acetate	ND		50		ug/Kg			08/30/13 08:49	1
Vinyl chloride	ND		5.0		ug/Kg			08/30/13 08:49	1
Xylenes, Total	ND		10		ug/Kg			08/30/13 08:49	1
2,2-Dichloropropane	ND		5.0		ug/Kg			08/30/13 08:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*45 - 131*		*08/30/13 08:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*		*08/30/13 08:49*	*1*
Toluene-d8 (Surr)	*99*		*58 - 140*		*08/30/13 08:49*	*1*

Lab Sample ID: LCS 720-143359/5
Matrix: Solid
Analysis Batch: 143359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	49.4		ug/Kg		99	70 - 144
Acetone	250	260		ug/Kg		104	30 - 162
Benzene	50.0	48.2		ug/Kg		96	70 - 130
Dichlorobromomethane	50.0	48.2		ug/Kg		96	70 - 131
Bromobenzene	50.0	50.5		ug/Kg		101	70 - 130
Chlorobromomethane	50.0	50.8		ug/Kg		102	70 - 130
Bromoform	50.0	53.6		ug/Kg		107	59 - 158
Bromomethane	50.0	49.2		ug/Kg		98	59 - 132
2-Butanone (MEK)	250	271		ug/Kg		108	53 - 124
n-Butylbenzene	50.0	51.5		ug/Kg		103	70 - 142
sec-Butylbenzene	50.0	51.8		ug/Kg		104	70 - 136
tert-Butylbenzene	50.0	53.2		ug/Kg		106	70 - 130
Carbon disulfide	50.0	41.6		ug/Kg		83	60 - 140
Carbon tetrachloride	50.0	48.8		ug/Kg		98	70 - 138
Chlorobenzene	50.0	51.0		ug/Kg		102	70 - 130
Chloroethane	50.0	51.5		ug/Kg		103	65 - 130
Chloroform	50.0	48.7		ug/Kg		97	77 - 127
Chloromethane	50.0	44.3		ug/Kg		89	55 - 140
2-Chlorotoluene	50.0	51.2		ug/Kg		102	70 - 138

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-143359/5
Matrix: Solid
Analysis Batch: 143359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	50.0	49.8		ug/Kg		100	70 - 136
Chlorodibromomethane	50.0	53.7		ug/Kg		107	70 - 146
1,2-Dichlorobenzene	50.0	52.8		ug/Kg		106	70 - 130
1,3-Dichlorobenzene	50.0	53.4		ug/Kg		107	70 - 131
1,4-Dichlorobenzene	50.0	53.0		ug/Kg		106	70 - 130
1,3-Dichloropropane	50.0	52.7		ug/Kg		105	70 - 140
1,1-Dichloropropene	50.0	52.1		ug/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	53.2		ug/Kg		106	60 - 145
Ethylene Dibromide	50.0	54.3		ug/Kg		109	70 - 140
Dibromomethane	50.0	50.7		ug/Kg		101	70 - 139
Dichlorodifluoromethane	50.0	37.0		ug/Kg		74	37 - 158
1,1-Dichloroethane	50.0	47.6		ug/Kg		95	70 - 130
1,2-Dichloroethane	50.0	49.1		ug/Kg		98	70 - 130
1,1-Dichloroethene	50.0	42.8		ug/Kg		86	76 - 122
cis-1,2-Dichloroethene	50.0	49.1		ug/Kg		98	70 - 138
trans-1,2-Dichloroethene	50.0	47.2		ug/Kg		94	67 - 130
1,2-Dichloropropane	50.0	52.5		ug/Kg		105	73 - 127
cis-1,3-Dichloropropene	50.0	51.6		ug/Kg		103	68 - 147
trans-1,3-Dichloropropene	50.0	49.5		ug/Kg		99	70 - 136
Ethylbenzene	50.0	48.4		ug/Kg		97	80 - 137
Hexachlorobutadiene	50.0	48.3		ug/Kg		97	70 - 132
2-Hexanone	250	260		ug/Kg		104	44 - 133
Isopropylbenzene	50.0	53.9		ug/Kg		108	88 - 128
4-Isopropyltoluene	50.0	52.1		ug/Kg		104	70 - 133
Methylene Chloride	50.0	46.0		ug/Kg		92	70 - 134
4-Methyl-2-pentanone (MIBK)	250	267		ug/Kg		107	60 - 160
Naphthalene	50.0	52.9		ug/Kg		106	60 - 147
N-Propylbenzene	50.0	51.8		ug/Kg		104	70 - 130
Styrene	50.0	49.4		ug/Kg		99	70 - 130
1,1,1,2-Tetrachloroethane	50.0	49.8		ug/Kg		100	70 - 130
1,1,2,2-Tetrachloroethane	50.0	53.3		ug/Kg		107	70 - 146
Tetrachloroethene	50.0	52.1		ug/Kg		104	70 - 132
Toluene	50.0	48.2		ug/Kg		96	80 - 128
1,2,3-Trichlorobenzene	50.0	50.6		ug/Kg		101	60 - 140
1,2,4-Trichlorobenzene	50.0	51.6		ug/Kg		103	60 - 140
1,1,1-Trichloroethane	50.0	51.0		ug/Kg		102	70 - 130
1,1,2-Trichloroethane	50.0	54.1		ug/Kg		108	70 - 130
Trichloroethene	50.0	51.9		ug/Kg		104	70 - 133
Trichlorofluoromethane	50.0	50.9		ug/Kg		102	60 - 140
1,2,3-Trichloropropane	50.0	51.4		ug/Kg		103	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.1		ug/Kg		92	60 - 140
1,2,4-Trimethylbenzene	50.0	53.7		ug/Kg		107	70 - 130
1,3,5-Trimethylbenzene	50.0	52.7		ug/Kg		105	70 - 131
Vinyl acetate	50.0	63.9		ug/Kg		128	38 - 176
Vinyl chloride	50.0	47.1		ug/Kg		94	58 - 125
m-Xylene & p-Xylene	100	102		ug/Kg		102	70 - 146
o-Xylene	50.0	52.1		ug/Kg		104	70 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-143359/5
Matrix: Solid
Analysis Batch: 143359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,2-Dichloropropane			50.0	59.9		ug/Kg		120	70 - 162		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCSD 720-143359/6
Matrix: Solid
Analysis Batch: 143359

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether			50.0	50.1		ug/Kg		100	70 - 144	1	20
Acetone			250	249		ug/Kg		100	30 - 162	4	30
Benzene			50.0	47.5		ug/Kg		95	70 - 130	1	20
Dichlorobromomethane			50.0	47.7		ug/Kg		95	70 - 131	1	20
Bromobenzene			50.0	48.6		ug/Kg		97	70 - 130	4	20
Chlorobromomethane			50.0	50.1		ug/Kg		100	70 - 130	1	20
Bromoform			50.0	54.7		ug/Kg		109	59 - 158	2	20
Bromomethane			50.0	48.7		ug/Kg		97	59 - 132	1	20
2-Butanone (MEK)			250	276		ug/Kg		110	53 - 124	2	20
n-Butylbenzene			50.0	50.2		ug/Kg		100	70 - 142	3	20
sec-Butylbenzene			50.0	50.1		ug/Kg		100	70 - 136	3	20
tert-Butylbenzene			50.0	51.2		ug/Kg		102	70 - 130	4	20
Carbon disulfide			50.0	41.6		ug/Kg		83	60 - 140	0	20
Carbon tetrachloride			50.0	48.8		ug/Kg		98	70 - 138	0	20
Chlorobenzene			50.0	50.3		ug/Kg		101	70 - 130	1	20
Chloroethane			50.0	50.9		ug/Kg		102	65 - 130	1	20
Chloroform			50.0	47.8		ug/Kg		96	77 - 127	2	20
Chloromethane			50.0	43.9		ug/Kg		88	55 - 140	1	20
2-Chlorotoluene			50.0	49.3		ug/Kg		99	70 - 138	4	20
4-Chlorotoluene			50.0	48.0		ug/Kg		96	70 - 136	4	20
Chlorodibromomethane			50.0	53.3		ug/Kg		107	70 - 146	1	20
1,2-Dichlorobenzene			50.0	51.5		ug/Kg		103	70 - 130	2	20
1,3-Dichlorobenzene			50.0	51.6		ug/Kg		103	70 - 131	3	20
1,4-Dichlorobenzene			50.0	52.0		ug/Kg		104	70 - 130	2	20
1,3-Dichloropropane			50.0	52.2		ug/Kg		104	70 - 140	1	20
1,1-Dichloropropene			50.0	51.4		ug/Kg		103	70 - 130	1	20
1,2-Dibromo-3-Chloropropane			50.0	54.8		ug/Kg		110	60 - 145	3	20
Ethylene Dibromide			50.0	54.0		ug/Kg		108	70 - 140	0	20
Dibromomethane			50.0	50.1		ug/Kg		100	70 - 139	1	20
Dichlorodifluoromethane			50.0	37.1		ug/Kg		74	37 - 158	0	20
1,1-Dichloroethane			50.0	46.9		ug/Kg		94	70 - 130	2	20
1,2-Dichloroethane			50.0	48.8		ug/Kg		98	70 - 130	1	20
1,1-Dichloroethene			50.0	42.8		ug/Kg		86	76 - 122	0	20
cis-1,2-Dichloroethene			50.0	48.2		ug/Kg		96	70 - 138	2	20
trans-1,2-Dichloroethene			50.0	46.2		ug/Kg		92	67 - 130	2	20
1,2-Dichloropropane			50.0	51.7		ug/Kg		103	73 - 127	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-143359/6
Matrix: Solid
Analysis Batch: 143359

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			50.0	51.1		ug/Kg		102	68 - 147	1	20
trans-1,3-Dichloropropene			50.0	49.6		ug/Kg		99	70 - 136	0	20
Ethylbenzene			50.0	47.9		ug/Kg		96	80 - 137	1	20
Hexachlorobutadiene			50.0	49.3		ug/Kg		99	70 - 132	2	20
2-Hexanone			250	267		ug/Kg		107	44 - 133	3	20
Isopropylbenzene			50.0	53.2		ug/Kg		106	88 - 128	1	20
4-Isopropyltoluene			50.0	50.8		ug/Kg		102	70 - 133	3	20
Methylene Chloride			50.0	45.8		ug/Kg		92	70 - 134	0	20
4-Methyl-2-pentanone (MIBK)			250	273		ug/Kg		109	60 - 160	2	20
Naphthalene			50.0	55.4		ug/Kg		111	60 - 147	5	20
N-Propylbenzene			50.0	49.7		ug/Kg		99	70 - 130	4	20
Styrene			50.0	49.3		ug/Kg		99	70 - 130	0	20
1,1,1,2-Tetrachloroethane			50.0	49.5		ug/Kg		99	70 - 130	1	20
1,1,2,2-Tetrachloroethane			50.0	52.6		ug/Kg		105	70 - 146	1	20
Tetrachloroethene			50.0	51.1		ug/Kg		102	70 - 132	2	20
Toluene			50.0	47.5		ug/Kg		95	80 - 128	1	20
1,2,3-Trichlorobenzene			50.0	53.2		ug/Kg		106	60 - 140	5	20
1,2,4-Trichlorobenzene			50.0	53.3		ug/Kg		107	60 - 140	3	20
1,1,1-Trichloroethane			50.0	50.6		ug/Kg		101	70 - 130	1	20
1,1,2-Trichloroethane			50.0	54.0		ug/Kg		108	70 - 130	0	20
Trichloroethene			50.0	51.1		ug/Kg		102	70 - 133	2	20
Trichlorofluoromethane			50.0	51.2		ug/Kg		102	60 - 140	1	20
1,2,3-Trichloropropane			50.0	50.4		ug/Kg		101	70 - 146	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	46.1		ug/Kg		92	60 - 140	0	20
1,2,4-Trimethylbenzene			50.0	52.0		ug/Kg		104	70 - 130	3	20
1,3,5-Trimethylbenzene			50.0	50.7		ug/Kg		101	70 - 131	4	20
Vinyl acetate			50.0	66.1		ug/Kg		132	38 - 176	3	20
Vinyl chloride			50.0	46.0		ug/Kg		92	58 - 125	2	20
m-Xylene & p-Xylene			100	100		ug/Kg		100	70 - 146	1	20
o-Xylene			50.0	51.8		ug/Kg		104	70 - 140	0	20
2,2-Dichloropropane			50.0	57.7		ug/Kg		115	70 - 162	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-3

GC/MS VOA

Analysis Batch: 143359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-8	EX7-SPOILS	Total/NA	Solid	8260B	143400
720-51718-13	EX6-SPOILS	Total/NA	Solid	8260B	143400
LCS 720-143359/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-143359/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-143359/4	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 143400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-8	EX7-SPOILS	Total/NA	Solid	5030B	
720-51718-13	EX6-SPOILS	Total/NA	Solid	5030B	

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-3

Client Sample ID: EX7-SPOILS

Lab Sample ID: 720-51718-8

Date Collected: 08/16/13 14:48

Matrix: Solid

Date Received: 08/16/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			143400	08/30/13 09:00	ASC	TAL PLS
Total/NA	Analysis	8260B		1	143359	08/30/13 11:07	ASC	TAL PLS

Client Sample ID: EX6-SPOILS

Lab Sample ID: 720-51718-13

Date Collected: 08/16/13 14:55

Matrix: Solid

Date Received: 08/16/13 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			143400	08/30/13 09:00	ASC	TAL PLS
Total/NA	Analysis	8260B		1	143359	08/30/13 11:35	ASC	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-3

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-3

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51718-8	EX7-SPOILS	Solid	08/16/13 14:48	08/16/13 16:40
720-51718-13	EX6-SPOILS	Solid	08/16/13 14:55	08/16/13 16:40

720-51718-3

Sharma, Dimple

From: Sebik, Joanna [JSebik@haleyaldrich.com]
Sent: Thursday, August 29, 2013 1:05 PM
To: Sharma, Dimple
Cc: Guthrie, Kristin; Miller, Katherine; Minor, Pam
Subject: Additional Analyses for Hanson samples from 8/16 and 8/19

Dimple,

We just learned that the landfill accepting our soil waste requires VOC analysis by 8260. The relevant samples were submitted on 8/16 and 8/19 (these include the STLC samples requested yesterday). Would it be possible to run these samples for VOCs on a 48 hr TAT?

Samples are as follows:
720-51718-1 (8/16/13) - EX6-Spoils, EX7-Spoils
720-51729-1 (8/19/13) - EX3/4-Spoils, EX4-Spoils, EX5-Spoils, CS-Spoils
720-51739-1 (8/19/13) - EX9-Spoils, EX10-Spoils, EX11-Spoils

Thank you,

Joanna Sebik
Engineer
HALEY & ALDRICH
2033 North Main Street, Suite 309
Walnut Creek, CA 94596
Office: 925.949.1020
Cell: 925.357.7355
JSebik@HaleyAldrich.com
www.HaleyAldrich.com

720-51718 Chain of Custody

RUSH

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51718-3

Login Number: 51718

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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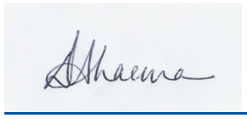
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51718-4
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie



Authorized for release by:
9/12/2013 3:44:10 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-4

Job ID: 720-51718-4

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51718-4

Comments
No additional comments.

Receipt
The samples were received on 8/16/2013 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 6.2° C.

Metals
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-4

Client Sample ID: EX7-SPOILS **Lab Sample ID: 720-51718-8**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-4

Client Sample ID: EX7-SPOILS
Date Collected: 08/16/13 14:48
Date Received: 08/16/13 16:40

Lab Sample ID: 720-51718-8
Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.13		mg/L		09/10/13 18:57	09/12/13 00:01	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-4

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-143972/1-A
Matrix: Solid
Analysis Batch: 144056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143972

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050		mg/L		09/10/13 18:57	09/11/13 17:40	1

Lab Sample ID: LCS 720-143972/2-A
Matrix: Solid
Analysis Batch: 144056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	0.994		mg/L		99	80 - 120

Lab Sample ID: LCSD 720-143972/3-A
Matrix: Solid
Analysis Batch: 144056

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 143972

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.00	1.01		mg/L		101	80 - 120	2	20

Lab Sample ID: LB 720-143848/1-C LB
Matrix: Solid
Analysis Batch: 144056

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 143972

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.13		mg/L		09/10/13 18:57	09/11/13 17:53	2.5

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-4

Metals

Leach Batch: 143848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-8	EX7-SPOILS	TCLP	Solid	1311	
LB 720-143848/1-C LB	Method Blank	TCLP	Solid	1311	

Prep Batch: 143972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-8	EX7-SPOILS	TCLP	Solid	3010A	143848
LB 720-143848/1-C LB	Method Blank	TCLP	Solid	3010A	143848
LCS 720-143972/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 720-143972/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	
MB 720-143972/1-A	Method Blank	Total/NA	Solid	3010A	

Analysis Batch: 144056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 720-143848/1-C LB	Method Blank	TCLP	Solid	6010B	143972
LCS 720-143972/2-A	Lab Control Sample	Total/NA	Solid	6010B	143972
LCSD 720-143972/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	143972
MB 720-143972/1-A	Method Blank	Total/NA	Solid	6010B	143972

Analysis Batch: 144082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51718-8	EX7-SPOILS	TCLP	Solid	6010B	143972

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-4

Client Sample ID: EX7-SPOILS
Date Collected: 08/16/13 14:48
Date Received: 08/16/13 16:40

Lab Sample ID: 720-51718-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			143848	09/09/13 12:11	ECT	TAL PLS
TCLP	Prep	3010A			143972	09/10/13 18:57	ASB	TAL PLS
TCLP	Analysis	6010B		2.5	144082	09/12/13 00:01	SLK	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-4

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-4

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51718-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51718-8	EX7-SPOILS	Solid	08/16/13 14:48	08/16/13 16:40

720-51718-4

Sharma, Dimple

From: Sebik, Joanna [JSebik@haleyaldrich.com]
Sent: Friday, September 06, 2013 10:55 AM
To: Sharma, Dimple
Cc: Schwartz, James; Guthrie, Kristin

Dimple,

Please run a TCLP analysis for lead on sample 720-51718-8 (H&A ID EX7-Spoils). 5 day TAT please.

Thank you,

Joanna Sebik
Engineer
HALEY & ALDRICH
2033 North Main Street, Suite 309
Walnut Creek, CA 94596
Office: 925.949.1020
Cell: 925.357.7355
JSebik@HaleyAldrich.com
www.HaleyAldrich.com



720-51718 Chain of Custody

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51718-4

Login Number: 51718

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51946-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
8/28/2013 5:26:40 PM
Afsaneh Salimpour, Project Manager I
afsaneh.salimpour@testamericainc.com

Designee for

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51946-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51946-1

Comments
No additional comments.

Receipt
The samples were received on 8/27/2013 3:58 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 7.1° C.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51946-1

Client Sample ID: EX10-B4(15.0) **Lab Sample ID: 720-51946-2**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51946-1

Client Sample ID: EX10-B4(15.0)
Date Collected: 08/27/13 14:25
Date Received: 08/27/13 15:58

Lab Sample ID: 720-51946-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/27/13 16:51	08/28/13 00:11	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/27/13 16:51	08/28/13 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.005*		*0 - 1*	*08/27/13 16:51*	*08/28/13 00:11*	*1*
p-Terphenyl	*97*		*38 - 148*	*08/27/13 16:51*	*08/28/13 00:11*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-143152/1-A
Matrix: Solid
Analysis Batch: 143086

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 143152

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/27/13 16:51	08/28/13 03:35	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/27/13 16:51	08/28/13 03:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/27/13 16:51*	*08/28/13 03:35*	*1*
p-Terphenyl	*108*		*38 - 148*	*08/27/13 16:51*	*08/28/13 03:35*	*1*

Lab Sample ID: LCS 720-143152/2-A
Matrix: Solid
Analysis Batch: 143086

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 143152

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.0	84.7		mg/Kg		103	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*103*		*38 - 148*

Lab Sample ID: LCSD 720-143152/3-A
Matrix: Solid
Analysis Batch: 143086

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 143152

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.4	83.2		mg/Kg		101	36 - 112	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*101*		*38 - 148*

Lab Sample ID: 720-51946-2 MS
Matrix: Solid
Analysis Batch: 143086

Client Sample ID: EX10-B4(15.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 143152

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	ND		82.0	71.8		mg/Kg		88	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*98*		*38 - 148*

Lab Sample ID: 720-51946-2 MSD
Matrix: Solid
Analysis Batch: 143086

Client Sample ID: EX10-B4(15.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 143152

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		82.2	71.3		mg/Kg		87	50 - 150	1	30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-51946-2 MSD
Matrix: Solid
Analysis Batch: 143086

Client Sample ID: EX10-B4(15.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 143152

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	*92*		*38 - 148*

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51946-1

GC Semi VOA

Analysis Batch: 143086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51946-2	EX10-B4(15.0)	Silica Gel Cleanup	Solid	8015B	143152
720-51946-2 MS	EX10-B4(15.0)	Silica Gel Cleanup	Solid	8015B	143152
720-51946-2 MSD	EX10-B4(15.0)	Silica Gel Cleanup	Solid	8015B	143152
LCS 720-143152/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	143152
LCSD 720-143152/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	143152
MB 720-143152/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	143152

Prep Batch: 143152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51946-2	EX10-B4(15.0)	Silica Gel Cleanup	Solid	3546	
720-51946-2 MS	EX10-B4(15.0)	Silica Gel Cleanup	Solid	3546	
720-51946-2 MSD	EX10-B4(15.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-143152/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-143152/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-143152/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51946-1

Client Sample ID: EX10-B4(15.0)
Date Collected: 08/27/13 14:25
Date Received: 08/27/13 15:58

Lab Sample ID: 720-51946-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143152	08/27/13 16:51	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	143086	08/28/13 00:11	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51946-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51946-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51946-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51946-2	EX10-B4(15.0)	Solid	08/27/13 14:25	08/27/13 15:58

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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 FAX: (925) 600-3002

720-51946

Reference #: 148241

Date 8/27/13 Page 1 of 1

8/28/2013

Report To

Attn: K Gutmire, J Schwartz
Company: HALEY & ALDRICH
Address: 2033 N Main, Walnut Creek CA
Email: KGutmire@haleyaldrich.com
Bill To: H&A
Sampled By: JSebik
Attn:
Phone: 925-357-7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals. ☐ 6020 ☐ 200.8 (ICP-MS).	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions . ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Hold	Number of Containers
EX10-B3(12.0)	8/27/13	1415	S	ice				JS															X	1
EX10-B4(15.0)	8/27/13	1425	S	ice				JS																1

JS
8/27/13

720-51946 Chain of Custody

Project Info.

Project Name / #: Former Hanson Aggregate Facility
PO#: 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 7.1°C 24 hrs

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | -1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time: 1535	Signature / Time:	Signature / Time:
Printed Name / Date: JOANNA SEBIK 8/27/13	Printed Name / Date: RUSH	Printed Name / Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature / Time: 1558	Signature / Time:	Signature / Time:
Printed Name / Date: Mueller 8-27-13	Printed Name / Date:	Printed Name / Date:
Company:	Company:	Company:

Rev 10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51946-1

Login Number: 51946

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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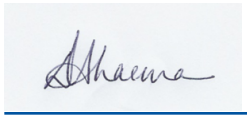
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51975-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie



Authorized for release by:
9/3/2013 4:36:58 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51975-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51975-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51975-1

Comments
No additional comments.

Receipt
The sample was received on 8/28/2013 4:35 PM; the sample arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 28.4° C.

GC/MS VOA
No analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: CS-CONCRETE (720-51975-1).

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51975-1

Client Sample ID: CS-CONCRETE

Lab Sample ID: 720-51975-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	950		100		mg/Kg	100		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	5900		5000		mg/Kg	100		8015B	Total/NA
Arsenic	3.7		3.1		mg/Kg	4		6010B	Total/NA
Barium	450		1.5		mg/Kg	4		6010B	Total/NA
Chromium	71		1.5		mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.61		mg/Kg	4		6010B	Total/NA
Copper	37		4.6		mg/Kg	4		6010B	Total/NA
Lead	5.1		1.5		mg/Kg	4		6010B	Total/NA
Molybdenum	17		1.5		mg/Kg	4		6010B	Total/NA
Nickel	120		1.5		mg/Kg	4		6010B	Total/NA
Vanadium	66		1.5		mg/Kg	4		6010B	Total/NA
Zinc	57		4.6		mg/Kg	4		6010B	Total/NA
Mercury	0.045		0.0087		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51975-1

Client Sample ID: CS-CONCRETE
Date Collected: 08/28/13 14:15
Date Received: 08/28/13 16:35

Lab Sample ID: 720-51975-1
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/30/13 19:08	08/31/13 03:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*77*		*45 - 131*	*08/30/13 19:08*	*08/31/13 03:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*	*08/30/13 19:08*	*08/31/13 03:57*	*1*
Toluene-d8 (Surr)	*85*		*58 - 140*	*08/30/13 19:08*	*08/31/13 03:57*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**950**		100		mg/Kg		08/30/13 19:25	09/03/13 12:09	100
Motor Oil Range Organics [C24-C36]	**5900**		5000		mg/Kg		08/30/13 19:25	09/03/13 12:09	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*08/30/13 19:25*	*09/03/13 12:09*	*100*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.5		mg/Kg		08/30/13 13:40	09/03/13 10:32	4
Arsenic	**3.7**		3.1		mg/Kg		08/30/13 13:40	09/03/13 10:32	4
Barium	**450**		1.5		mg/Kg		08/30/13 13:40	09/03/13 10:32	4
Beryllium	ND		0.31		mg/Kg		08/30/13 13:40	09/03/13 10:32	4
Cadmium	ND		0.38		mg/Kg		08/30/13 13:40	09/03/13 10:32	4
Chromium	**71**		1.5		mg/Kg		08/30/13 13:40	09/03/13 10:32	4
Cobalt	**7.7**		0.61		mg/Kg		08/30/13 13:40	09/03/13 10:32	4
Copper	**37**		4.6		mg/Kg		08/30/13 13:40	09/03/13 10:32	4
Lead	**5.1**		1.5		mg/Kg		08/30/13 13:40	09/03/13 10:32	4
Molybdenum	**17**		1.5		mg/Kg		08/30/13 13:40	09/03/13 10:32	4
Nickel	**120**		1.5		mg/Kg		08/30/13 13:40	09/03/13 10:32	4
Selenium	ND		3.1		mg/Kg		08/30/13 13:40	09/03/13 10:32	4
Silver	ND		0.76		mg/Kg		08/30/13 13:40	09/03/13 10:32	4
Thallium	ND		1.5		mg/Kg		08/30/13 13:40	09/03/13 10:32	4
Vanadium	**66**		1.5		mg/Kg		08/30/13 13:40	09/03/13 10:32	4
Zinc	**57**		4.6		mg/Kg		08/30/13 13:40	09/03/13 10:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.045**		0.0087		mg/Kg		08/30/13 14:16	08/30/13 18:43	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-143407/5
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			08/30/13 17:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*45 - 131*		*08/30/13 17:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 140*		*08/30/13 17:31*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*		*08/30/13 17:31*	*1*

Lab Sample ID: LCS 720-143407/8
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			1000	992		ug/Kg		99	61 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 140*
Toluene-d8 (Surr)	*99*		*58 - 140*

Lab Sample ID: LCSD 720-143407/9
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	983		ug/Kg		98	61 - 128	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-143434/1-A
Matrix: Solid
Analysis Batch: 143446

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		08/30/13 19:25	08/31/13 14:55	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/30/13 19:25	08/31/13 14:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*86*		*40 - 130*	*08/30/13 19:25*	*08/31/13 14:55*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-143434/2-A
Matrix: Solid
Analysis Batch: 143446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143434

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.3	56.0		mg/Kg		68	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*72*		*40 - 130*

Lab Sample ID: LCSD 720-143434/3-A
Matrix: Solid
Analysis Batch: 143446

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 143434

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.1	62.0		mg/Kg		76	50 - 150	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*77*		*40 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-143382/1-A
Matrix: Solid
Analysis Batch: 143499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		08/30/13 11:40	09/03/13 09:53	1
Arsenic	ND		1.0		mg/Kg		08/30/13 11:40	09/03/13 09:53	1
Barium	ND		0.50		mg/Kg		08/30/13 11:40	09/03/13 09:53	1
Beryllium	ND		0.10		mg/Kg		08/30/13 11:40	09/03/13 09:53	1
Cadmium	ND		0.13		mg/Kg		08/30/13 11:40	09/03/13 09:53	1
Chromium	ND		0.50		mg/Kg		08/30/13 11:40	09/03/13 09:53	1
Cobalt	ND		0.20		mg/Kg		08/30/13 11:40	09/03/13 09:53	1
Copper	ND		1.5		mg/Kg		08/30/13 11:40	09/03/13 09:53	1
Lead	ND		0.50		mg/Kg		08/30/13 11:40	09/03/13 09:53	1
Molybdenum	ND		0.50		mg/Kg		08/30/13 11:40	09/03/13 09:53	1
Nickel	ND		0.50		mg/Kg		08/30/13 11:40	09/03/13 09:53	1
Selenium	ND		1.0		mg/Kg		08/30/13 11:40	09/03/13 09:53	1
Silver	ND		0.25		mg/Kg		08/30/13 11:40	09/03/13 09:53	1
Thallium	ND		0.50		mg/Kg		08/30/13 11:40	09/03/13 09:53	1
Vanadium	ND		0.50		mg/Kg		08/30/13 11:40	09/03/13 09:53	1
Zinc	ND		1.5		mg/Kg		08/30/13 11:40	09/03/13 09:53	1

Lab Sample ID: LCS 720-143382/2-A
Matrix: Solid
Analysis Batch: 143499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143382

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Antimony			50.0	48.3		mg/Kg		97	80 - 120		
Arsenic			50.0	48.4		mg/Kg		97	80 - 120		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-143382/2-A
Matrix: Solid
Analysis Batch: 143499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	50.0	48.2		mg/Kg		96	80 - 120
Beryllium	50.0	49.4		mg/Kg		99	80 - 120
Cadmium	50.0	50.2		mg/Kg		100	80 - 120
Chromium	50.0	50.1		mg/Kg		100	80 - 120
Cobalt	50.0	50.1		mg/Kg		100	80 - 120
Copper	50.0	50.7		mg/Kg		101	80 - 120
Lead	50.0	50.3		mg/Kg		101	80 - 120
Molybdenum	50.0	50.9		mg/Kg		102	80 - 120
Nickel	50.0	51.0		mg/Kg		102	80 - 120
Selenium	50.0	47.2		mg/Kg		94	80 - 120
Silver	25.0	23.8		mg/Kg		95	80 - 120
Thallium	50.0	50.8		mg/Kg		102	80 - 120
Vanadium	50.0	49.1		mg/Kg		98	80 - 120
Zinc	50.0	49.3		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 720-143382/3-A
Matrix: Solid
Analysis Batch: 143499

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 143382

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	47.8		mg/Kg		96	80 - 120	1	20
Arsenic	50.0	48.1		mg/Kg		96	80 - 120	1	20
Barium	50.0	48.0		mg/Kg		96	80 - 120	1	20
Beryllium	50.0	49.2		mg/Kg		98	80 - 120	1	20
Cadmium	50.0	49.7		mg/Kg		99	80 - 120	1	20
Chromium	50.0	49.7		mg/Kg		99	80 - 120	1	20
Cobalt	50.0	49.5		mg/Kg		99	80 - 120	1	20
Copper	50.0	50.3		mg/Kg		101	80 - 120	1	20
Lead	50.0	49.7		mg/Kg		99	80 - 120	1	20
Molybdenum	50.0	50.3		mg/Kg		101	80 - 120	1	20
Nickel	50.0	50.4		mg/Kg		101	80 - 120	1	20
Selenium	50.0	47.1		mg/Kg		94	80 - 120	0	20
Silver	25.0	23.6		mg/Kg		95	80 - 120	1	20
Thallium	50.0	50.4		mg/Kg		101	80 - 120	1	20
Vanadium	50.0	48.7		mg/Kg		97	80 - 120	1	20
Zinc	50.0	48.6		mg/Kg		97	80 - 120	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-143394/1-A
Matrix: Solid
Analysis Batch: 143433

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143394

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		08/30/13 14:16	08/30/13 18:31	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-143394/2-A
Matrix: Solid
Analysis Batch: 143433

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143394

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.883		mg/Kg		106	80 - 120

Lab Sample ID: LCSD 720-143394/3-A
Matrix: Solid
Analysis Batch: 143433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 143394

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.833	0.892		mg/Kg		107	80 - 120	1	20

Lab Sample ID: 720-51975-1 MS
Matrix: Solid
Analysis Batch: 143433

Client Sample ID: CS-CONCRETE
Prep Type: Total/NA
Prep Batch: 143394

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.045		0.758	0.871		mg/Kg		109	75 - 125

Lab Sample ID: 720-51975-1 MSD
Matrix: Solid
Analysis Batch: 143433

Client Sample ID: CS-CONCRETE
Prep Type: Total/NA
Prep Batch: 143394

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.045		0.769	0.885		mg/Kg		109	75 - 125	2	20

GC/MS VOA

Analysis Batch: 143407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51975-1	CS-CONCRETE	Total/NA	Solid	8260B/CA_LUFT MS	143432
LCS 720-143407/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-143407/9	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-143407/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 143432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51975-1	CS-CONCRETE	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 143434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51975-1	CS-CONCRETE	Total/NA	Solid	3546	
LCS 720-143434/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-143434/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-143434/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 143446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-143434/2-A	Lab Control Sample	Total/NA	Solid	8015B	143434
LCSD 720-143434/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	143434
MB 720-143434/1-A	Method Blank	Total/NA	Solid	8015B	143434

Analysis Batch: 143470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51975-1	CS-CONCRETE	Total/NA	Solid	8015B	143434

Metals

Prep Batch: 143382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51975-1	CS-CONCRETE	Total/NA	Solid	3050B	
LCS 720-143382/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-143382/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-143382/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 143394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51975-1	CS-CONCRETE	Total/NA	Solid	7471A	
720-51975-1 MS	CS-CONCRETE	Total/NA	Solid	7471A	
720-51975-1 MSD	CS-CONCRETE	Total/NA	Solid	7471A	
LCS 720-143394/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-143394/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-143394/1-A	Method Blank	Total/NA	Solid	7471A	

Metals (Continued)

Analysis Batch: 143433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51975-1	CS-CONCRETE	Total/NA	Solid	7471A	143394
720-51975-1 MS	CS-CONCRETE	Total/NA	Solid	7471A	143394
720-51975-1 MSD	CS-CONCRETE	Total/NA	Solid	7471A	143394
LCS 720-143394/2-A	Lab Control Sample	Total/NA	Solid	7471A	143394
LCSD 720-143394/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	143394
MB 720-143394/1-A	Method Blank	Total/NA	Solid	7471A	143394

Analysis Batch: 143499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51975-1	CS-CONCRETE	Total/NA	Solid	6010B	143382
LCS 720-143382/2-A	Lab Control Sample	Total/NA	Solid	6010B	143382
LCSD 720-143382/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	143382
MB 720-143382/1-A	Method Blank	Total/NA	Solid	6010B	143382

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51975-1

Client Sample ID: CS-CONCRETE — **Lab Sample ID: 720-51975-1**

Date Collected: 08/28/13 14:15 — **Matrix: Solid**

Date Received: 08/28/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			143432	08/30/13 19:08	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	143407	08/31/13 03:57	ASC	TAL PLS
Total/NA	Prep	3546			143434	08/30/13 19:25	DBT	TAL PLS
Total/NA	Analysis	8015B		100	143470	09/03/13 12:09	DCH	TAL PLS
Total/NA	Prep	7471A			143394	08/30/13 14:16	ECT	TAL PLS
Total/NA	Analysis	7471A		1	143433	08/30/13 18:43	SLK	TAL PLS
Total/NA	Prep	3050B			143382	08/30/13 13:40	JCR	TAL PLS
Total/NA	Analysis	6010B		4	143499	09/03/13 10:32	EFH	TAL PLS

Laboratory References:

= Asbestos TEM Laboratories, Inc., 630 BANCROFT WAY, Berkeley, CA 94710

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51975-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51975-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
CRUSH AND GRIND	General Sub Contract Method	NONE	

Protocol References:

NONE = NONE

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= Asbestos TEM Laboratories, Inc., 630 BANCROFT WAY, Berkeley, CA 94710

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51975-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51975-1	CS-CONCRETE	Solid	08/28/13 14:15	08/28/13 16:35

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-51975

Reference #: 148265

Date 8/28/13 Page 1 of 1

9/3/2013

Report To

Attn: KGuthrie, JSchwartz
Company: Haley & Aldrich
Address: 2033 N Main st, Walnut Creek CA
Email: KGUTHRIE@haleyaldrich.com
Bill To: H&A
Sampled By: JS
Attn:
Phone: 925-357-7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Ger ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS)	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
CS-Concrete	8/28/13	1415	-	-			X	X					X												1

JS 8/28/13

RUSH

Page 17 of 18

Project Info.

Project Name / #: Former Hanson Aggregate Facility
PO#: 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 28.4°C

TAT	10 Day	5 Day	4 Day	3 Day	2 Day	1 Day	Other.
							ASAP

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____
* Please grind concrete prior to analysis

See Terms and Conditions on reverse

1) Relinquished by: Joanna Sebok 1635 — Signature / Time
Printed Name: Joanna Sebok 8/28/13 — Date
Company: Haley & Aldrich

2) Relinquished by: Signature / Time
Printed Name / Date
Company

3) Relinquished by: Signature / Time
Printed Name / Date
Company

720-51975 Chain of Custody

1) Received by: Joan Mullen 1635 — Signature / Time
Printed Name: Mullen 8-28-13 — Date
Company: TA

2) Received by: Signature / Time
Printed Name / Date
Company

3) Received by: Signature / Time
Printed Name / Date
Company

Rev 10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51975-1

Login Number: 51975

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51975-2
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
9/12/2013 3:25:27 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51975-2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51975-2

Job ID: 720-51975-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51975-2

Comments
No additional comments.

Receipt
The sample was received on 8/28/2013 4:35 PM; the sample arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 28.4° C.

Metals
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51975-2

Client Sample ID: CS-CONCRETE — **Lab Sample ID: 720-51975-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	1.2		0.25		mg/L	2.5		6010B	STLC Citrate

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51975-2

Client Sample ID: CS-CONCRETE
Lab Sample ID: 720-51975-1
Date Collected: 08/28/13 14:15
Matrix: Solid
Date Received: 08/28/13 16:35

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	1.2		0.25		mg/L		09/12/13 09:59	09/12/13 13:35	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51975-2

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-144088/1-A
Matrix: Solid
Analysis Batch: 144117

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 144088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.010		mg/L		09/12/13 09:59	09/12/13 12:42	1

Lab Sample ID: LCS 720-144088/2-A
Matrix: Solid
Analysis Batch: 144117

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 144088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.00	0.902		mg/L		90	80 - 120

Lab Sample ID: LCSD 720-144088/3-A
Matrix: Solid
Analysis Batch: 144117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 144088

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	1.00	0.916		mg/L		92	80 - 120	1	20

Lab Sample ID: LB4 720-143908/1-B LB4
Matrix: Solid
Analysis Batch: 144117

Client Sample ID: Method Blank
Prep Type: STLC Citrate
Prep Batch: 144088

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10		mg/L		09/12/13 09:59	09/12/13 12:55	1

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51975-2

Metals

Leach Batch: 143908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51975-1	CS-CONCRETE	STLC Citrate	Solid	CA WET Citrate	
LB4 720-143908/1-B LB4	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 144088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51975-1	CS-CONCRETE	STLC Citrate	Solid	3005A	143908
LB4 720-143908/1-B LB4	Method Blank	STLC Citrate	Solid	3005A	143908
LCS 720-144088/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-144088/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-144088/1-A	Method Blank	Total Recoverable	Solid	3005A	

Analysis Batch: 144117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51975-1	CS-CONCRETE	STLC Citrate	Solid	6010B	144088
LB4 720-143908/1-B LB4	Method Blank	STLC Citrate	Solid	6010B	144088
LCS 720-144088/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	144088
LCSD 720-144088/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	144088
MB 720-144088/1-A	Method Blank	Total Recoverable	Solid	6010B	144088

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51975-2

Client Sample ID: CS-CONCRETE — **Lab Sample ID: 720-51975-1**

Date Collected: 08/28/13 14:15 — **Matrix: Solid**

Date Received: 08/28/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			143908	09/10/13 09:00	ECT	TAL PLS
STLC Citrate	Prep	3005A			144088	09/12/13 09:59	ECT	TAL PLS
STLC Citrate	Analysis	6010B		2.5	144117	09/12/13 13:35	EFH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51975-2

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51975-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51975-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51975-1	CS-CONCRETE	Solid	08/28/13 14:15	08/28/13 16:35

Sharma, Dimple 720-51975-2

From: Guthrie, Kristin [KGuthrie@haleyaldrich.com]
Sent: Monday, September 09, 2013 12:25 PM
To: Lisa Hobson; Sebik, Joanna; Sharma, Dimple
Subject: RE: FW: Files from 720-51975-1 Hansen

Dimple – can you run this sample (concrete) for STLC for chromium please.

- Kristin
phone: 925.949.1017

From: Lisa Hobson [mailto:lhobson@eticeng.com]
Sent: Monday, September 09, 2013 10:53 AM
To: Guthrie, Kristin; Sebik, Joanna; Lisa Hobson
Subject: RE: FW: Files from 720-51975-1 Hansen

Can we please have them run the STLC for chromium on this sample, as the 71 result is over the 50 mg/kg trigger?
Thanks.

Lisa Hobson, PE, QSD
Senior Project Manager
lhobson@eticeng.com
www.eticeng.com
ETIC Engineering, Inc.
2285 Morello Ave.
Pleasant Hill, CA 94523
Tel: 925-602-4710 x2230
Fax: 925-602-4720
Mobile: 925-381-6322

720-51975 Chain of Custody

From: Guthrie, Kristin [mailto:KGuthrie@haleyaldrich.com]
Sent: Monday, September 09, 2013 8:08 AM
To: Lisa Hobson; Sebik, Joanna
Subject: FW: Files from 720-51975-1 Hansen

Here are the concrete results.

- Kristin
phone: 925.949.1017

From: Sharma, Dimple [mailto:dimple.sharma@testamericainc.com]
Sent: Tuesday, September 03, 2013 4:41 PM
To: Sebik, Joanna; Guthrie, Kristin; Miller, Katherine; Minor, Pam; Brownsberger, Rae
Subject: Files from 720-51975-1 Hansen

Please let us know if we met your expectations by rating the service you received

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51975-2

Login Number: 51975
List Number: 1
Creator: Mullen, Joan

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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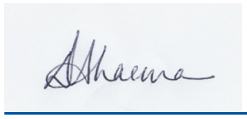
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-52093-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie



Authorized for release by:
9/5/2013 4:49:35 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-52093-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-52093-1

Comments
No additional comments.

Receipt
The samples were received on 9/4/2013 4:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 19.7º C.

Except:

Sample EX10/EX11-S1 (1.0) 16oz soil jar was not received full.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52093-1

Client Sample ID: EX10/EX11-S1 (10.0) — Lab Sample ID: 720-52093-1

No Detections.

Client Sample ID: EX10/EX11-B1 (18.0) — Lab Sample ID: 720-52093-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1500		9.9		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1000		490		mg/Kg	10		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52093-1

Client Sample ID: EX10/EX11-S1 (10.0)
Date Collected: 09/04/13 15:54
Date Received: 09/04/13 16:50

Lab Sample ID: 720-52093-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		09/04/13 18:34	09/05/13 00:05	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		09/04/13 18:34	09/05/13 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.005*		*0 - 1*	*09/04/13 18:34*	*09/05/13 00:05*	*1*
p-Terphenyl	*86*		*38 - 148*	*09/04/13 18:34*	*09/05/13 00:05*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52093-1

Client Sample ID: EX10/EX11-B1 (18.0)
Date Collected: 09/04/13 15:56
Date Received: 09/04/13 16:50

Lab Sample ID: 720-52093-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1500		9.9		mg/Kg		09/04/13 18:34	09/05/13 09:50	10
Motor Oil Range Organics [C24-C36]	1000		490		mg/Kg		09/04/13 18:34	09/05/13 09:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/04/13 18:34*	*09/05/13 09:50*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*09/04/13 18:34*	*09/05/13 09:50*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52093-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-143594/1-A
Matrix: Solid
Analysis Batch: 143569

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 143594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		09/04/13 14:03	09/05/13 04:26	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		09/04/13 14:03	09/05/13 04:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.004*		*0 - 1*	*09/04/13 14:03*	*09/05/13 04:26*	*1*
p-Terphenyl	*95*		*38 - 148*	*09/04/13 14:03*	*09/05/13 04:26*	*1*

Lab Sample ID: LCS 720-143594/2-A
Matrix: Solid
Analysis Batch: 143569

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 143594

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.4	40.9		mg/Kg		50	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*76*		*38 - 148*

Lab Sample ID: LCSD 720-143594/3-A
Matrix: Solid
Analysis Batch: 143569

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 143594

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.8	41.9		mg/Kg		51	36 - 112	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*82*		*38 - 148*

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52093-1

GC Semi VOA

Analysis Batch: 143569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52093-1	EX10/EX11-S1 (10.0)	Silica Gel Cleanup	Solid	8015B	143594
LCS 720-143594/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	143594
LCSD 720-143594/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	143594
MB 720-143594/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	143594

Prep Batch: 143594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52093-1	EX10/EX11-S1 (10.0)	Silica Gel Cleanup	Solid	3546	
720-52093-2	EX10/EX11-B1 (18.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-143594/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-143594/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-143594/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 143638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52093-2	EX10/EX11-B1 (18.0)	Silica Gel Cleanup	Solid	8015B	143594

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52093-1

Client Sample ID: EX10/EX11-S1 (10.0)

Lab Sample ID: 720-52093-1

Date Collected: 09/04/13 15:54

Matrix: Solid

Date Received: 09/04/13 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143594	09/04/13 18:34	DBT	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	143569	09/05/13 00:05	DCH	TAL PLS

Client Sample ID: EX10/EX11-B1 (18.0)

Lab Sample ID: 720-52093-2

Date Collected: 09/04/13 15:56

Matrix: Solid

Date Received: 09/04/13 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143594	09/04/13 18:34	DBT	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	143638	09/05/13 09:50	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52093-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52093-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52093-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-52093-1	EX10/EX11-S1 (10.0)	Solid	09/04/13 15:54	09/04/13 16:50
720-52093-2	EX10/EX11-B1 (18.0)	Solid	09/04/13 15:56	09/04/13 16:50

TestAmerica
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720-52093

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 148387

Date 9/4/13 Page 1 of 1

9/5/2013

Report To

Attn: K Guthrie & J Schwartz
Company: Haley & Aldrich
Address: 2033 N Main St Walnut Creek
Email: Kguthrie@haleyaldrich.com
Bill To: H&A
Sampled By: JSebik
Attn:
Phone: 925-357-7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ WET (STLC) ☐ WET (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
EX10/EX11-S1(10.0)	9/4/13	1554	S	ice				X																	1
EX10/EX11-S1(18.0)	9/4/13	1556	S	ice				X																	1

RUSH

JS 9/4/13

720-52093 Chain of Custody

Project Info.

Project Name/ #: Former Hanson Aggregate Facility
PO#: 89792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space
Temp. 19.7°C

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | (1 Day) | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___

See Terms and Conditions on reverse

1) Relinquished by	2) Relinquished by:	3) Relinquished by
Signature: [signature] Time: 1650	Signature: Time:	Signature: Time:
Printed Name: JOANNA SEBIK Date: 9/4/13	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by	3) Received by:
Signature: [signature] Time: 1650	Signature: Time:	Signature: Time:
Printed Name: Mullen Date: 9-4-13	Printed Name: Date:	Printed Name: Date:
Company: TestAmerica	Company:	Company:

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-52093-1

Login Number: 52093

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Bullock, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-52161-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
9/11/2013 5:04:57 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-52161-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-52161-1

Comments
No additional comments.

Receipt
The samples were received on 9/6/2013 4:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 9.4° C.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: B2-S7(5) (720-52161-1), B2-S8(4.5) (720-52161-2).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Client Sample ID: B2-S7(5) — Lab Sample ID: 720-52161-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	210		10		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	820		500		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: B2-S8(4.5) — Lab Sample ID: 720-52161-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	430		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1500		1000		mg/Kg	20		8015B	Silica Gel Cleanup

Client Sample ID: B2-S9(4.5) — Lab Sample ID: 720-52161-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	52		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	200		100		mg/Kg	2		8015B	Silica Gel Cleanup

Client Sample ID: B2-S10(5) — Lab Sample ID: 720-52161-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	70		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	220		100		mg/Kg	2		8015B	Silica Gel Cleanup

Client Sample ID: B2-S11(6) — Lab Sample ID: 720-52161-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.4		0.98		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Client Sample ID: B2-S7(5)
Date Collected: 09/06/13 14:26
Date Received: 09/06/13 16:10

Lab Sample ID: 720-52161-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	210		10		mg/Kg		09/07/13 10:21	09/09/13 11:49	10
Motor Oil Range Organics [C24-C36]	820		500		mg/Kg		09/07/13 10:21	09/09/13 11:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/07/13 10:21*	*09/09/13 11:49*	*10*
p-Terphenyl	*0*	*D X*	*38 - 148*	*09/07/13 10:21*	*09/09/13 11:49*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Client Sample ID: B2-S8(4.5)
Date Collected: 09/06/13 15:02
Date Received: 09/06/13 16:10

Lab Sample ID: 720-52161-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	430		20		mg/Kg		09/07/13 10:21	09/08/13 17:23	20
Motor Oil Range Organics [C24-C36]	1500		1000		mg/Kg		09/07/13 10:21	09/08/13 17:23	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/07/13 10:21*	*09/08/13 17:23*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*09/07/13 10:21*	*09/08/13 17:23*	*20*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Client Sample ID: B2-S9(4.5)
Date Collected: 09/06/13 14:31
Date Received: 09/06/13 16:10

Lab Sample ID: 720-52161-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	52		2.0		mg/Kg		09/07/13 10:21	09/09/13 12:18	2
Motor Oil Range Organics [C24-C36]	200		100		mg/Kg		09/07/13 10:21	09/09/13 12:18	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.9*		*0 - 1*	*09/07/13 10:21*	*09/09/13 12:18*	*2*
p-Terphenyl	*64*		*38 - 148*	*09/07/13 10:21*	*09/09/13 12:18*	*2*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Client Sample ID: B2-S10(5)
Date Collected: 09/06/13 14:35
Date Received: 09/06/13 16:10

Lab Sample ID: 720-52161-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	70		2.0		mg/Kg		09/07/13 10:21	09/09/13 12:47	2
Motor Oil Range Organics [C24-C36]	220		100		mg/Kg		09/07/13 10:21	09/09/13 12:47	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.5*		*0 - 1*	*09/07/13 10:21*	*09/09/13 12:47*	*2*
p-Terphenyl	*53*		*38 - 148*	*09/07/13 10:21*	*09/09/13 12:47*	*2*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Client Sample ID: B2-S11(6)
Date Collected: 09/06/13 14:38
Date Received: 09/06/13 16:10

Lab Sample ID: 720-52161-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.4**		0.98		mg/Kg		09/07/13 10:21	09/08/13 19:01	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		09/07/13 10:21	09/08/13 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 1*	*09/07/13 10:21*	*09/08/13 19:01*	*1*
p-Terphenyl	*106*		*38 - 148*	*09/07/13 10:21*	*09/08/13 19:01*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-143798/1-A
Matrix: Solid
Analysis Batch: 143791

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 143798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		09/07/13 10:21	09/07/13 21:32	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		09/07/13 10:21	09/07/13 21:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*09/07/13 10:21*	*09/07/13 21:32*	*1*
p-Terphenyl	*102*		*38 - 148*	*09/07/13 10:21*	*09/07/13 21:32*	*1*

Lab Sample ID: LCS 720-143798/2-A
Matrix: Solid
Analysis Batch: 143791

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 143798

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.1	59.3		mg/Kg		72	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*88*		*38 - 148*

Lab Sample ID: LCSD 720-143798/3-A
Matrix: Solid
Analysis Batch: 143791

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 143798

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.8	62.6		mg/Kg		76	36 - 112	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*98*		*38 - 148*

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

GC Semi VOA

Analysis Batch: 143791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-143798/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	143798
LCSD 720-143798/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	143798
MB 720-143798/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	143798

Prep Batch: 143798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52161-1	B2-S7(5)	Silica Gel Cleanup	Solid	3546	
720-52161-2	B2-S8(4.5)	Silica Gel Cleanup	Solid	3546	
720-52161-3	B2-S9(4.5)	Silica Gel Cleanup	Solid	3546	
720-52161-4	B2-S10(5)	Silica Gel Cleanup	Solid	3546	
720-52161-5	B2-S11(6)	Silica Gel Cleanup	Solid	3546	
LCS 720-143798/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-143798/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-143798/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 143814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52161-2	B2-S8(4.5)	Silica Gel Cleanup	Solid	8015B	143798
720-52161-5	B2-S11(6)	Silica Gel Cleanup	Solid	8015B	143798

Analysis Batch: 143840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52161-1	B2-S7(5)	Silica Gel Cleanup	Solid	8015B	143798
720-52161-3	B2-S9(4.5)	Silica Gel Cleanup	Solid	8015B	143798
720-52161-4	B2-S10(5)	Silica Gel Cleanup	Solid	8015B	143798

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Client Sample ID: B2-S7(5)

Lab Sample ID: 720-52161-1

Date Collected: 09/06/13 14:26

Matrix: Solid

Date Received: 09/06/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143798	09/07/13 10:21	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	143840	09/09/13 11:49	DCH	TAL PLS

Client Sample ID: B2-S8(4.5)

Lab Sample ID: 720-52161-2

Date Collected: 09/06/13 15:02

Matrix: Solid

Date Received: 09/06/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143798	09/07/13 10:21	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	143814	09/08/13 17:23	DCH	TAL PLS

Client Sample ID: B2-S9(4.5)

Lab Sample ID: 720-52161-3

Date Collected: 09/06/13 14:31

Matrix: Solid

Date Received: 09/06/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143798	09/07/13 10:21	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	143840	09/09/13 12:18	DCH	TAL PLS

Client Sample ID: B2-S10(5)

Lab Sample ID: 720-52161-4

Date Collected: 09/06/13 14:35

Matrix: Solid

Date Received: 09/06/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143798	09/07/13 10:21	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	143840	09/09/13 12:47	DCH	TAL PLS

Client Sample ID: B2-S11(6)

Lab Sample ID: 720-52161-5

Date Collected: 09/06/13 14:38

Matrix: Solid

Date Received: 09/06/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143798	09/07/13 10:21	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	143814	09/08/13 19:01	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-52161-1	B2-S7(5)	Solid	09/06/13 14:26	09/06/13 16:10
720-52161-2	B2-S8(4.5)	Solid	09/06/13 15:02	09/06/13 16:10
720-52161-3	B2-S9(4.5)	Solid	09/06/13 14:31	09/06/13 16:10
720-52161-4	B2-S10(5)	Solid	09/06/13 14:35	09/06/13 16:10
720-52161-5	B2-S11(6)	Solid	09/06/13 14:38	09/06/13 16:10

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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-52161

Reference #: 148469

Date 9-6-13 Page 1 of 1

9/11/2013

Report To

Attn: K Guthrie & J Schwartz
Company: Haley & Aldrich
Address: 2033 N Main St Walnut Creek
Email: KGuthrie@haleyaldrich.com
Bill To: H&A
Sampled By: Katie Griffin
Attn:
Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☐ Diesel ☒ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS) ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
B2-S7(5)	9-6-13	1426	So	None				X																	1
B2-S8(4.5)	9-6-13	1502	So	None				X																	1
B2-S9(4.5)	9-6-13	1431	So	None				X																	1
B2-S10(5)	9-6-13	1435	So	None				X																	1
B2-S11(6)	9-6-13	1438	So	None				X																	1
									JS 9/6/13																

RUSH

Page 17 of 19

Project Info

Project Name/ #: 39792 Hanson
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers: 5
Head Space:
Temp: 9.4°c

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Katie Griffin 1610		
Signature Time	Signature Time	Signature Time
Katie Griffin 9-6-13		
Printed Name Date	Printed Name	Date
Haley & Aldrich		
Company	Company	

720-52161 Chain of Custody

1) Received by:	2) Received by:	
Jason Muller 1610		
Signature Time	Signature Time	Signature Time
Muller 9-6-13		
Printed Name Date	Printed Name Date	Printed Name Date
H&A		
Company	Company	Company

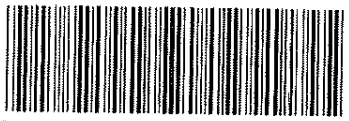
Rev.10/2012

Sharma, Dimple

From: Sebik, Joanna [JSebik@haleyaldrich.com]
Sent: Saturday, September 07, 2013 9:03 AM
To: Guthrie, Kristin; Sharma, Dimple
Subject: Re: Re: Sample Login Confirmation for 720-52161, Hansen

Dimple,

Please change these to 5 day turn.


720-52161 Chain of Custody

Thanks

Joanna

Sent from my Verizon Wireless 4G LTE Smartphone.

------ Original Message ------
From : Guthrie, Kristin
Subject : Re: Sample Login Confirmation for 720-52161, Hansen

Why are we rushing these?

Sent from my iPhone

On Sep 6, 2013, at 5:32 PM, "Sharma, Dimple" <dimple.sharma@testamericainc.com> wrote:

> Please let us know if we met your expectations by rating the service
> you received from TestAmerica on this project by visiting our website
> at: Project
> Feedback<https://secure.testamericainc.com/snaponline/surveylogin.asp?
> k=121632876991>
>
> DIMPLE SHARMA
>
> TestAmerica Pleasanton
> THE LEADER IN ENVIRONMENTAL TESTING
>
> Tel: 925.484,1919
> www.testamericainc.com<http://www.testamericainc.com>
>
> Reference: [139125]
> Attachments: 3
>
> <Std_Tal_Login_Limits for 720-52161-1.pdf> <COC 720-52161
> (201309061710).pdf> <Std_Tal_Login_Ack for 720-52161-1.pdf>

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-52161-1

Login Number: 52161

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



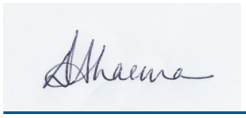
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-52161-1
Client Project/Site: Hansen
Revision: 1

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie



Authorized for release by:
11/21/2013 5:48:08 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Job ID: 720-52161-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-52161-1

Comments
The report is revised to change the sample IDs.

Receipt
The samples were received on 9/6/2013 4:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 9.4° C.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: B2-S7(5) (720-52161-1), B2-S8(4.5) (720-52161-2).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Client Sample ID: EX7-S7(5.0) — Lab Sample ID: 720-52161-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	210		10		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	820		500		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: EX7-S8(4.5) — Lab Sample ID: 720-52161-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	430		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1500		1000		mg/Kg	20		8015B	Silica Gel Cleanup

Client Sample ID: EX7-S9(4.5) — Lab Sample ID: 720-52161-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	52		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	200		100		mg/Kg	2		8015B	Silica Gel Cleanup

Client Sample ID: EX7-S10(5.0) — Lab Sample ID: 720-52161-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	70		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	220		100		mg/Kg	2		8015B	Silica Gel Cleanup

Client Sample ID: EX7-B2(6.0) — Lab Sample ID: 720-52161-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.4		0.98		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Client Sample ID: EX7-S7(5.0)
Date Collected: 09/06/13 14:26
Date Received: 09/06/13 16:10

Lab Sample ID: 720-52161-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	210		10		mg/Kg		09/07/13 10:21	09/09/13 11:49	10
Motor Oil Range Organics [C24-C36]	820		500		mg/Kg		09/07/13 10:21	09/09/13 11:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/07/13 10:21*	*09/09/13 11:49*	*10*
p-Terphenyl	*0*	*D X*	*38 - 148*	*09/07/13 10:21*	*09/09/13 11:49*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Client Sample ID: EX7-S8(4.5)
Date Collected: 09/06/13 15:02
Date Received: 09/06/13 16:10

Lab Sample ID: 720-52161-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	430		20		mg/Kg		09/07/13 10:21	09/08/13 17:23	20
Motor Oil Range Organics [C24-C36]	1500		1000		mg/Kg		09/07/13 10:21	09/08/13 17:23	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/07/13 10:21*	*09/08/13 17:23*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*09/07/13 10:21*	*09/08/13 17:23*	*20*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Client Sample ID: EX7-S9(4.5)
Date Collected: 09/06/13 14:31
Date Received: 09/06/13 16:10

Lab Sample ID: 720-52161-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	52		2.0		mg/Kg		09/07/13 10:21	09/09/13 12:18	2
Motor Oil Range Organics [C24-C36]	200		100		mg/Kg		09/07/13 10:21	09/09/13 12:18	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.9*		*0 - 1*	*09/07/13 10:21*	*09/09/13 12:18*	*2*
p-Terphenyl	*64*		*38 - 148*	*09/07/13 10:21*	*09/09/13 12:18*	*2*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Client Sample ID: EX7-S10(5.0)
Date Collected: 09/06/13 14:35
Date Received: 09/06/13 16:10

Lab Sample ID: 720-52161-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	70		2.0		mg/Kg		09/07/13 10:21	09/09/13 12:47	2
Motor Oil Range Organics [C24-C36]	220		100		mg/Kg		09/07/13 10:21	09/09/13 12:47	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.5*		*0 - 1*	*09/07/13 10:21*	*09/09/13 12:47*	*2*
p-Terphenyl	*53*		*38 - 148*	*09/07/13 10:21*	*09/09/13 12:47*	*2*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Client Sample ID: EX7-B2(6.0)
Date Collected: 09/06/13 14:38
Date Received: 09/06/13 16:10

Lab Sample ID: 720-52161-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.4**		0.98		mg/Kg		09/07/13 10:21	09/08/13 19:01	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		09/07/13 10:21	09/08/13 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 1*	*09/07/13 10:21*	*09/08/13 19:01*	*1*
p-Terphenyl	*106*		*38 - 148*	*09/07/13 10:21*	*09/08/13 19:01*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-143798/1-A
Matrix: Solid
Analysis Batch: 143791

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 143798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		09/07/13 10:21	09/07/13 21:32	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		09/07/13 10:21	09/07/13 21:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*09/07/13 10:21*	*09/07/13 21:32*	*1*
p-Terphenyl	*102*		*38 - 148*	*09/07/13 10:21*	*09/07/13 21:32*	*1*

Lab Sample ID: LCS 720-143798/2-A
Matrix: Solid
Analysis Batch: 143791

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 143798

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.1	59.3		mg/Kg		72	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*88*		*38 - 148*

Lab Sample ID: LCSD 720-143798/3-A
Matrix: Solid
Analysis Batch: 143791

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 143798

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.8	62.6		mg/Kg		76	36 - 112	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*98*		*38 - 148*

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

GC Semi VOA

Analysis Batch: 143791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-143798/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	143798
LCSD 720-143798/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	143798
MB 720-143798/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	143798

Prep Batch: 143798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52161-1	EX7-S7(5.0)	Silica Gel Cleanup	Solid	3546	
720-52161-2	EX7-S8(4.5)	Silica Gel Cleanup	Solid	3546	
720-52161-3	EX7-S9(4.5)	Silica Gel Cleanup	Solid	3546	
720-52161-4	EX7-S10(5.0)	Silica Gel Cleanup	Solid	3546	
720-52161-5	EX7-B2(6.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-143798/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-143798/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-143798/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 143814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52161-2	EX7-S8(4.5)	Silica Gel Cleanup	Solid	8015B	143798
720-52161-5	EX7-B2(6.0)	Silica Gel Cleanup	Solid	8015B	143798

Analysis Batch: 143840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52161-1	EX7-S7(5.0)	Silica Gel Cleanup	Solid	8015B	143798
720-52161-3	EX7-S9(4.5)	Silica Gel Cleanup	Solid	8015B	143798
720-52161-4	EX7-S10(5.0)	Silica Gel Cleanup	Solid	8015B	143798

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Client Sample ID: EX7-S7(5.0)

Lab Sample ID: 720-52161-1

Date Collected: 09/06/13 14:26

Matrix: Solid

Date Received: 09/06/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143798	09/07/13 10:21	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	143840	09/09/13 11:49	DCH	TAL PLS

Client Sample ID: EX7-S8(4.5)

Lab Sample ID: 720-52161-2

Date Collected: 09/06/13 15:02

Matrix: Solid

Date Received: 09/06/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143798	09/07/13 10:21	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	143814	09/08/13 17:23	DCH	TAL PLS

Client Sample ID: EX7-S9(4.5)

Lab Sample ID: 720-52161-3

Date Collected: 09/06/13 14:31

Matrix: Solid

Date Received: 09/06/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143798	09/07/13 10:21	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	143840	09/09/13 12:18	DCH	TAL PLS

Client Sample ID: EX7-S10(5.0)

Lab Sample ID: 720-52161-4

Date Collected: 09/06/13 14:35

Matrix: Solid

Date Received: 09/06/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143798	09/07/13 10:21	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	143840	09/09/13 12:47	DCH	TAL PLS

Client Sample ID: EX7-B2(6.0)

Lab Sample ID: 720-52161-5

Date Collected: 09/06/13 14:38

Matrix: Solid

Date Received: 09/06/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143798	09/07/13 10:21	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	143814	09/08/13 19:01	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52161-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-52161-1	EX7-S7(5.0)	Solid	09/06/13 14:26	09/06/13 16:10
720-52161-2	EX7-S8(4.5)	Solid	09/06/13 15:02	09/06/13 16:10
720-52161-3	EX7-S9(4.5)	Solid	09/06/13 14:31	09/06/13 16:10
720-52161-4	EX7-S10(5.0)	Solid	09/06/13 14:35	09/06/13 16:10
720-52161-5	EX7-B2(6.0)	Solid	09/06/13 14:38	09/06/13 16:10

Sharma, Dimple

From: Sebik, Joanna [JSebik@haleyaldrich.com]
Sent: Wednesday, November 20, 2013 8:18 AM
To: Sharma, Dimple
Cc: Minor, Pam
Subject: Re-issue 2 Hanson reports

Dimple,

We had some errors with our sample IDs a while back and I was hoping you could re-issue the reports with edited IDs.

Lab report	Test America ID	New H&A ID
720-52161	720-52161-1	EX7-S7(5.0)
	720-52161-2	EX7-S8(4.5)
	720-52161-3	EX7-S9(4.5)
	720-52161-4	EX7-S10(5.0)
	720-52161-5	EX7-B2(6.0)
720-52314	720-52314-7	EX3-S5(4.0)
720-52758	720-52758-31	EX10/11-S2(20.0)

Thank you!

Joanna Sebik
Engineer
HALEY & ALDRICH
2033 North Main Street, Suite 309
Walnut Creek, CA 94596
Office: 925.949.1020
Cell: 925.357.7355
JSebik@HaleyAldrich.com
www.HaleyAldrich.com

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-52161

Reference #: 148469

Date 9-6-13 Page 1 of 1

11/21/2013

Report To

Attn: K Guthrie & J Schwartz
Company: Haley & Aldrich
Address: 2033 N Main St Walnut Creek
Email: KGuthrie@haleyaldrich.com
Bill To: H&A
Sampled By: Katie Griffin
Attn:
Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS ☐ EPA 8260B (VOCs)	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☐ Diesel ☒ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS) ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
B2-S7(5)	9-6-13	1426	So	None				X																	1
B2-S8(4.5)	9-6-13	1502	So	None				X																	1
B2-S9(4.5)	9-6-13	1431	So	None				X																	1
B2-S10(5)	9-6-13	1435	So	None				X																	1
B2-S11(6)	9-6-13	1438	So	None				X																	1

RUSH

JS 9/16/13

Page 18 of 20

Project Info

Project Name/ #: 39792 Hanson
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers: 5
Head Space:
Temp: 9.4°c

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___

See Terms and Conditions on reverse

1) Relinquished by: Katie Griffin 1610
Signature Time
Katie Griffin 9-6-13
Printed Name Date
Haley & Aldrich
Company

2) Relinquished by:
Signature Time
Printed Name
Company

3) Relinquished by:
Signature Time
Printed Name Date
Company

720-52161 Chain of Custody

1) Received by: Jason Mullen 1610
Signature Time
Mullen 9-6-13
Printed Name Date
Company

2) Received by:
Signature Time
Printed Name Date
Company

Signature Time
Printed Name Date
Company

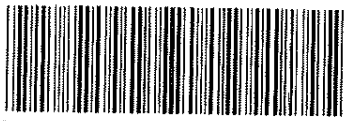
Rev.10/2012

Sharma, Dimple

From: Sebik, Joanna [JSebik@haleyaldrich.com]
Sent: Saturday, September 07, 2013 9:03 AM
To: Guthrie, Kristin; Sharma, Dimple
Subject: Re: Re: Sample Login Confirmation for 720-52161, Hansen

Dimple,

Please change these to 5 day turn.


720-52161 Chain of Custody

Thanks

Joanna

Sent from my Verizon Wireless 4G LTE Smartphone.

------ Original Message ------
From : Guthrie, Kristin
Subject : Re: Sample Login Confirmation for 720-52161, Hansen

Why are we rushing these?

Sent from my iPhone

On Sep 6, 2013, at 5:32 PM, "Sharma, Dimple" <dimple.sharma@testamericainc.com> wrote:

> Please let us know if we met your expectations by rating the service
> you received from TestAmerica on this project by visiting our website
> at: Project
> Feedback<https://secure.testamericainc.com/snaponline/surveylogin.asp?
> k=121632876991>
>
> DIMPLE SHARMA
>
> TestAmerica Pleasanton
> THE LEADER IN ENVIRONMENTAL TESTING
>
> Tel: 925.484,1919
> www.testamericainc.com<http://www.testamericainc.com>
>
> Reference: [139125]
> Attachments: 3
>
> <Std_Tal_Login_Limits for 720-52161-1.pdf> <COC 720-52161
> (201309061710).pdf> <Std_Tal_Login_Ack for 720-52161-1.pdf>

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-52161-1

Login Number: 52161

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



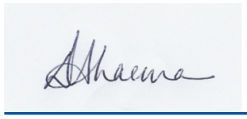
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-52198-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie



Authorized for release by:
9/11/2013 5:07:39 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52198-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-52198-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-52198-1

Comments
No additional comments.

Receipt
The samples were received on 9/9/2013 4:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 6.9º C.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52198-1

Client Sample ID: EX5-S6-(2.5) — Lab Sample ID: 720-52198-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	94		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	300		150		mg/Kg	3		8015B	Silica Gel Cleanup

Client Sample ID: EX5-S7-(2.5) — Lab Sample ID: 720-52198-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	83		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	260		100		mg/Kg	2		8015B	Silica Gel Cleanup

Client Sample ID: EX5-S8-(2.5) — Lab Sample ID: 720-52198-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	100		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	150		99		mg/Kg	2		8015B	Silica Gel Cleanup

Client Sample ID: EX5-S9-(2.5) — Lab Sample ID: 720-52198-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	260		2.0		mg/Kg	2		8015B	Silica Gel Cleanup

Client Sample ID: EX5-S10-(2.5) — Lab Sample ID: 720-52198-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	43		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	110		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX5-S11-(2.5) — Lab Sample ID: 720-52198-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	84		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	200		100		mg/Kg	2		8015B	Silica Gel Cleanup

Client Sample ID: EX5-S12-(2.5) — Lab Sample ID: 720-52198-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	55		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	150		99		mg/Kg	2		8015B	Silica Gel Cleanup

Client Sample ID: EX5-S13-(2.5) — Lab Sample ID: 720-52198-8

This Detection Summary does not include radiochemical test results.

Client Sample ID: EX5-S13-(2.5) (Continued)

Lab Sample ID: 720-52198-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	57		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	160		99		mg/Kg	2		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52198-1

Client Sample ID: EX5-S6-(2.5)
Date Collected: 09/09/13 13:30
Date Received: 09/09/13 16:35

Lab Sample ID: 720-52198-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	94		3.0		mg/Kg		09/10/13 12:41	09/11/13 01:05	3
Motor Oil Range Organics [C24-C36]	300		150		mg/Kg		09/10/13 12:41	09/11/13 01:05	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.5*		*0 - 1*	*09/10/13 12:41*	*09/11/13 01:05*	*3*
p-Terphenyl	*58*		*38 - 148*	*09/10/13 12:41*	*09/11/13 01:05*	*3*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52198-1

Client Sample ID: EX5-S7-(2.5)
Date Collected: 09/09/13 13:35
Date Received: 09/09/13 16:35

Lab Sample ID: 720-52198-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	83		2.0		mg/Kg		09/10/13 12:41	09/11/13 00:36	2
Motor Oil Range Organics [C24-C36]	260		100		mg/Kg		09/10/13 12:41	09/11/13 00:36	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.3*		*0 - 1*	*09/10/13 12:41*	*09/11/13 00:36*	*2*
p-Terphenyl	*63*		*38 - 148*	*09/10/13 12:41*	*09/11/13 00:36*	*2*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52198-1

Client Sample ID: EX5-S8-(2.5)
Date Collected: 09/09/13 13:45
Date Received: 09/09/13 16:35

Lab Sample ID: 720-52198-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	100		2.0		mg/Kg		09/10/13 12:41	09/11/13 00:06	2
Motor Oil Range Organics [C24-C36]	150		99		mg/Kg		09/10/13 12:41	09/11/13 00:06	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.3*		*0 - 1*	*09/10/13 12:41*	*09/11/13 00:06*	*2*
p-Terphenyl	*51*		*38 - 148*	*09/10/13 12:41*	*09/11/13 00:06*	*2*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52198-1

Client Sample ID: EX5-S9-(2.5)
Date Collected: 09/09/13 13:50
Date Received: 09/09/13 16:35

Lab Sample ID: 720-52198-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**260**		2.0		mg/Kg		09/10/13 12:41	09/10/13 23:37	2
Motor Oil Range Organics [C24-C36]	ND		100		mg/Kg		09/10/13 12:41	09/10/13 23:37	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/10/13 12:41*	*09/10/13 23:37*	*2*
p-Terphenyl	*47*		*38 - 148*	*09/10/13 12:41*	*09/10/13 23:37*	*2*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52198-1

Client Sample ID: EX5-S10-(2.5)
Date Collected: 09/09/13 14:15
Date Received: 09/09/13 16:35

Lab Sample ID: 720-52198-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	43		0.99		mg/Kg		09/10/13 12:41	09/10/13 21:40	1
Motor Oil Range Organics [C24-C36]	110		50		mg/Kg		09/10/13 12:41	09/10/13 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.5*		*0 - 1*	*09/10/13 12:41*	*09/10/13 21:40*	*1*
p-Terphenyl	*68*		*38 - 148*	*09/10/13 12:41*	*09/10/13 21:40*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52198-1

Client Sample ID: EX5-S11-(2.5)
Date Collected: 09/09/13 14:20
Date Received: 09/09/13 16:35

Lab Sample ID: 720-52198-6
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	84		2.0		mg/Kg		09/10/13 12:41	09/10/13 23:08	2
Motor Oil Range Organics [C24-C36]	200		100		mg/Kg		09/10/13 12:41	09/10/13 23:08	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.5*		*0 - 1*	*09/10/13 12:41*	*09/10/13 23:08*	*2*
p-Terphenyl	*78*		*38 - 148*	*09/10/13 12:41*	*09/10/13 23:08*	*2*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52198-1

Client Sample ID: EX5-S12-(2.5)
Date Collected: 09/09/13 14:30
Date Received: 09/09/13 16:35

Lab Sample ID: 720-52198-7
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	55		2.0		mg/Kg		09/10/13 12:41	09/10/13 23:37	2
Motor Oil Range Organics [C24-C36]	150		99		mg/Kg		09/10/13 12:41	09/10/13 23:37	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.5*		*0 - 1*	*09/10/13 12:41*	*09/10/13 23:37*	*2*
p-Terphenyl	*70*		*38 - 148*	*09/10/13 12:41*	*09/10/13 23:37*	*2*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52198-1

Client Sample ID: EX5-S13-(2.5)
Date Collected: 09/09/13 14:45
Date Received: 09/09/13 16:35

Lab Sample ID: 720-52198-8
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	57		2.0		mg/Kg		09/10/13 12:41	09/11/13 00:06	2
Motor Oil Range Organics [C24-C36]	160		99		mg/Kg		09/10/13 12:41	09/11/13 00:06	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.4*		*0 - 1*	*09/10/13 12:41*	*09/11/13 00:06*	*2*
p-Terphenyl	*45*		*38 - 148*	*09/10/13 12:41*	*09/11/13 00:06*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-143933/1-A
Matrix: Solid
Analysis Batch: 143902

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 143933

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		09/10/13 12:41	09/11/13 01:34	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		09/10/13 12:41	09/11/13 01:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.0007*		*0 - 1*	*09/10/13 12:41*	*09/11/13 01:34*	*1*
p-Terphenyl	*108*		*38 - 148*	*09/10/13 12:41*	*09/11/13 01:34*	*1*

Lab Sample ID: LCS 720-143933/2-A
Matrix: Solid
Analysis Batch: 143902

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 143933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.1	55.6		mg/Kg		67	36 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*101*		*38 - 148*

Lab Sample ID: LCSD 720-143933/3-A
Matrix: Solid
Analysis Batch: 143902

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 143933

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	82.5	52.8		mg/Kg		64	36 - 112	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*103*		*38 - 148*

Lab Sample ID: 720-52198-1 MS
Matrix: Solid
Analysis Batch: 143903

Client Sample ID: EX5-S6-(2.5)
Prep Type: Silica Gel Cleanup
Prep Batch: 143933

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	94		83.4	141		mg/Kg		57	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*38 - 148*

Lab Sample ID: 720-52198-1 MSD
Matrix: Solid
Analysis Batch: 143903

Client Sample ID: EX5-S6-(2.5)
Prep Type: Silica Gel Cleanup
Prep Batch: 143933

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	94		82.3	132	F	mg/Kg		46	50 - 150	7	30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-52198-1 MSD
Matrix: Solid
Analysis Batch: 143903

Client Sample ID: EX5-S6-(2.5)
Prep Type: Silica Gel Cleanup
Prep Batch: 143933

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	*0*	*X D*	*38 - 148*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52198-1

GC Semi VOA

Analysis Batch: 143902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52198-6	EX5-S11-(2.5)	Silica Gel Cleanup	Solid	8015B	143933
720-52198-7	EX5-S12-(2.5)	Silica Gel Cleanup	Solid	8015B	143933
720-52198-8	EX5-S13-(2.5)	Silica Gel Cleanup	Solid	8015B	143933
LCS 720-143933/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	143933
LCSD 720-143933/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	143933
MB 720-143933/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	143933

Analysis Batch: 143903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52198-1	EX5-S6-(2.5)	Silica Gel Cleanup	Solid	8015B	143933
720-52198-1 MS	EX5-S6-(2.5)	Silica Gel Cleanup	Solid	8015B	143933
720-52198-1 MSD	EX5-S6-(2.5)	Silica Gel Cleanup	Solid	8015B	143933
720-52198-2	EX5-S7-(2.5)	Silica Gel Cleanup	Solid	8015B	143933
720-52198-3	EX5-S8-(2.5)	Silica Gel Cleanup	Solid	8015B	143933
720-52198-4	EX5-S9-(2.5)	Silica Gel Cleanup	Solid	8015B	143933
720-52198-5	EX5-S10-(2.5)	Silica Gel Cleanup	Solid	8015B	143933

Prep Batch: 143933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52198-1	EX5-S6-(2.5)	Silica Gel Cleanup	Solid	3546	
720-52198-1 MS	EX5-S6-(2.5)	Silica Gel Cleanup	Solid	3546	
720-52198-1 MSD	EX5-S6-(2.5)	Silica Gel Cleanup	Solid	3546	
720-52198-2	EX5-S7-(2.5)	Silica Gel Cleanup	Solid	3546	
720-52198-3	EX5-S8-(2.5)	Silica Gel Cleanup	Solid	3546	
720-52198-4	EX5-S9-(2.5)	Silica Gel Cleanup	Solid	3546	
720-52198-5	EX5-S10-(2.5)	Silica Gel Cleanup	Solid	3546	
720-52198-6	EX5-S11-(2.5)	Silica Gel Cleanup	Solid	3546	
720-52198-7	EX5-S12-(2.5)	Silica Gel Cleanup	Solid	3546	
720-52198-8	EX5-S13-(2.5)	Silica Gel Cleanup	Solid	3546	
LCS 720-143933/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-143933/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-143933/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52198-1

Client Sample ID: EX5-S6-(2.5)

Lab Sample ID: 720-52198-1

Date Collected: 09/09/13 13:30

Matrix: Solid

Date Received: 09/09/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143933	09/10/13 12:41	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	143903	09/11/13 01:05	DCH	TAL PLS

Client Sample ID: EX5-S7-(2.5)

Lab Sample ID: 720-52198-2

Date Collected: 09/09/13 13:35

Matrix: Solid

Date Received: 09/09/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143933	09/10/13 12:41	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	143903	09/11/13 00:36	DCH	TAL PLS

Client Sample ID: EX5-S8-(2.5)

Lab Sample ID: 720-52198-3

Date Collected: 09/09/13 13:45

Matrix: Solid

Date Received: 09/09/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143933	09/10/13 12:41	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	143903	09/11/13 00:06	DCH	TAL PLS

Client Sample ID: EX5-S9-(2.5)

Lab Sample ID: 720-52198-4

Date Collected: 09/09/13 13:50

Matrix: Solid

Date Received: 09/09/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143933	09/10/13 12:41	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	143903	09/10/13 23:37	DCH	TAL PLS

Client Sample ID: EX5-S10-(2.5)

Lab Sample ID: 720-52198-5

Date Collected: 09/09/13 14:15

Matrix: Solid

Date Received: 09/09/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143933	09/10/13 12:41	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	143903	09/10/13 21:40	DCH	TAL PLS

Client Sample ID: EX5-S11-(2.5)

Lab Sample ID: 720-52198-6

Date Collected: 09/09/13 14:20

Matrix: Solid

Date Received: 09/09/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143933	09/10/13 12:41	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	143902	09/10/13 23:08	DCH	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52198-1

Client Sample ID: EX5-S12-(2.5)

Lab Sample ID: 720-52198-7

Date Collected: 09/09/13 14:30

Matrix: Solid

Date Received: 09/09/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143933	09/10/13 12:41	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	143902	09/10/13 23:37	DCH	TAL PLS

Client Sample ID: EX5-S13-(2.5)

Lab Sample ID: 720-52198-8

Date Collected: 09/09/13 14:45

Matrix: Solid

Date Received: 09/09/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			143933	09/10/13 12:41	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	143902	09/11/13 00:06	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52198-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52198-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52198-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-52198-1	EX5-S6-(2.5)	Solid	09/09/13 13:30	09/09/13 16:35
720-52198-2	EX5-S7-(2.5)	Solid	09/09/13 13:35	09/09/13 16:35
720-52198-3	EX5-S8-(2.5)	Solid	09/09/13 13:45	09/09/13 16:35
720-52198-4	EX5-S9-(2.5)	Solid	09/09/13 13:50	09/09/13 16:35
720-52198-5	EX5-S10-(2.5)	Solid	09/09/13 14:15	09/09/13 16:35
720-52198-6	EX5-S11-(2.5)	Solid	09/09/13 14:20	09/09/13 16:35
720-52198-7	EX5-S12-(2.5)	Solid	09/09/13 14:30	09/09/13 16:35
720-52198-8	EX5-S13-(2.5)	Solid	09/09/13 14:45	09/09/13 16:35

720-52198

148499

CHAIN OF CUSTODY RECORD

HALEY & ALDRICH

Haley & Aldrich, Inc.
2033 N. Main St, Ste 309
Walnut Creek, CA 94596-7260

Phone (925) 949-1012
Fax (925) 979-1456

Page 1 of 1

H&A FILE NO.	39792-	LABORATORY	Test America, Pleasanton, Ca	DELIVERY DATE	9/9/2013
PROJECT NAME	Former Hanson Aggregate Facility	ADDRESS	1200 Quarry Lane, 94566	TURNAROUND TIME	~~24 hour~~ ~~5 Day~~ (72 hour)
H&A CONTACT	J. Sebik, R Brownsberger, K Guthrie	CONTACT	Dimple Sharma	PROJECT MANAGER	K. Guthrie, J Schwartz

Sample No.	Date	Time	Depth	Type	TPH-d/mo by 8015B with silica gel cleanup	Naphthalene ONLY by 8270C SIM	Proctor Test (Compaction Curve)	CAM17 metals	TPH-g	pH by 9040	VOCs	SVOCs	Asbestos by CARB 435			Number of Containers
EX5-S6-(2.5)	9/9/13	1330	2.5	soil	X											1
EX5-S7 (2.5)	9/9/13	1335	2.5	soil	X											1
EX5-S8 (2.5)	9/9/13	1345	2.5	soil	X											1
EX5-S9-(2.5)	9/9/13	1350	2.5	soil	X											1
EX5-S10-(2.5)	9/9/13	1415	2.5	soil	X											1
EX5-S11-(2.5)	9/9/13	1420	2.5	soil	X											1
EX5-S12-(2.5)	9/9/13	1430	2.5	soil	X											1
EX5-S13-(2.5)	9/9/13	1445	2.5	soil	X											1

Analysis Requested

Comments (special instructions, precautions, additional method numbers, etc.)

RUSH

Sampled and Relinquished by	Received by
Sign	Sign
Print Brendan J Mulholland	Print Justinn Gonzale
Firm Haley & Aldrich (Albion)	Firm TAP
Date 9/9/13 Time 1635	Date 9/9/13 Time 1635
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID

720-52198 Chain of Custody

VOA Vial	
Amber Glass	
Plastic Bottle	
Preservative	
Volume	

SOLID

VOA Vial	
Amber Glass	
Clear Glass	X
Preservative	A
Volume	8oz

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Water/NaHSO4 (circle)

Sampling Comments

Archive all samples after analysis.

6.9°C

Evidence samples were tampered with? YES NO

If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate Laboratory should (specify if applicable) _____ analyz

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

September 2012

Form 3003

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-52198-1

Login Number: 52198

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-52233-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
9/17/2013 9:33:56 AM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-52233-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-52233-1

Comments
No additional comments.

Receipt
The samples were received on 9/10/2013 4:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8º C.

Except:

Broke 1 jar for EX6-S10-(4.25) in lab.

GC/MS Semi VOA
Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch #144074 were outside control limits. This is attributed to: non-homogeneity of the sample matrix; abundance of target analytes at concentrations significantly higher than the spike concentration; matrix interferences; etc.>>

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: EX6-S10-(4.25) (720-52233-5), EX6-S11-(4.25) (720-52233-6), EX6-S12-(4.25) (720-52233-7), EX6-S13-(4.25) (720-52233-8), EX6-S6-(4.25) (720-52233-1), EX6-S7-(4.25) (720-52233-2), EX6-S8-(4.25) (720-52233-3), EX6-S9-(4.25) (720-52233-4). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: (720-52233-2 MS), (720-52233-2 MSD), EX6-S7-(4.25) (720-52233-2), EX6-S13-(4.25) (720-52233-8), EX6-S8-(4.25) (720-52233-3), CF5-S1-(2.5) (720-52233-9), CF5-B2-(5.0) (720-52233-13), CF5-S4-(2.5) (720-52233-12).

No other analytical or quality issues were noted.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 143986 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: EX6-S6-(4.25) — Lab Sample ID: 720-52233-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	73		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	230		99		mg/Kg	2		8015B	Silica Gel Cleanup
Lead	24		1.8		mg/Kg	4		6010B	Total/NA
Barium	93		1.8		mg/Kg	4		6010B	Total/NA
Nickel	49		1.8		mg/Kg	4		6010B	Total/NA
Vanadium	23		1.8		mg/Kg	4		6010B	Total/NA
Copper	26		5.3		mg/Kg	4		6010B	Total/NA
Zinc	73		5.3		mg/Kg	4		6010B	Total/NA
Chromium	33		1.8		mg/Kg	4		6010B	Total/NA
Cobalt	8.2		0.71		mg/Kg	4		6010B	Total/NA
Mercury	0.021		0.0090		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX6-S7-(4.25) — Lab Sample ID: 720-52233-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	54		50		ug/Kg	10		8270C SIM	Total/NA
Chrysene	96		50		ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	280		9.9		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	760		500		mg/Kg	10		8015B	Silica Gel Cleanup
Lead	10		1.9		mg/Kg	4		6010B	Total/NA
Barium	61		1.9		mg/Kg	4		6010B	Total/NA
Nickel	29		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	18		1.9		mg/Kg	4		6010B	Total/NA
Copper	14		5.7		mg/Kg	4		6010B	Total/NA
Zinc	70		5.7		mg/Kg	4		6010B	Total/NA
Chromium	18		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	4.7		0.76		mg/Kg	4		6010B	Total/NA
Mercury	0.023		0.0092		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX6-S8-(4.25) — Lab Sample ID: 720-52233-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	230		200		ug/Kg	20		8270C SIM	Total/NA
Benzo[b]fluoranthene	350		200		ug/Kg	20		8270C SIM	Total/NA
Benzo[g,h,i]perylene	270		200		ug/Kg	20		8270C SIM	Total/NA
Chrysene	410		200		ug/Kg	20		8270C SIM	Total/NA
Phenanthrene	230		200		ug/Kg	20		8270C SIM	Total/NA
Pyrene	640		200		ug/Kg	20		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	1400		25		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	3800		1200		mg/Kg	10		8015B	Silica Gel Cleanup
Lead	10		1.9		mg/Kg	4		6010B	Total/NA
Barium	65		1.9		mg/Kg	4		6010B	Total/NA
Nickel	42		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	26		1.9		mg/Kg	4		6010B	Total/NA
Copper	17		5.6		mg/Kg	4		6010B	Total/NA
Zinc	56		5.6		mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: EX6-S8-(4.25) (Continued)

Lab Sample ID: 720-52233-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	30		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	5.9		0.74		mg/Kg	4		6010B	Total/NA
Mercury	0.032		0.0097		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX6-S9-(4.25)

Lab Sample ID: 720-52233-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	59		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	180		100		mg/Kg	2		8015B	Silica Gel Cleanup
Lead	8.2		1.8		mg/Kg	4		6010B	Total/NA
Barium	69		1.8		mg/Kg	4		6010B	Total/NA
Nickel	43		1.8		mg/Kg	4		6010B	Total/NA
Vanadium	25		1.8		mg/Kg	4		6010B	Total/NA
Copper	18		5.5		mg/Kg	4		6010B	Total/NA
Zinc	48		5.5		mg/Kg	4		6010B	Total/NA
Chromium	30		1.8		mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.73		mg/Kg	4		6010B	Total/NA
Mercury	0.071		0.0090		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX6-S10-(4.25)

Lab Sample ID: 720-52233-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	31		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	100		50		mg/Kg	1		8015B	Silica Gel Cleanup
Lead	8.8		1.9		mg/Kg	4		6010B	Total/NA
Barium	92		1.9		mg/Kg	4		6010B	Total/NA
Nickel	61		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	29		1.9		mg/Kg	4		6010B	Total/NA
Copper	30		5.8		mg/Kg	4		6010B	Total/NA
Zinc	46		5.8		mg/Kg	4		6010B	Total/NA
Chromium	35		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	9.2		0.78		mg/Kg	4		6010B	Total/NA
Mercury	0.021		0.0091		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX6-S11-(4.25)

Lab Sample ID: 720-52233-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	18		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	50		50		mg/Kg	1		8015B	Silica Gel Cleanup
Lead	16		1.8		mg/Kg	4		6010B	Total/NA
Barium	74		1.8		mg/Kg	4		6010B	Total/NA
Nickel	52		1.8		mg/Kg	4		6010B	Total/NA
Vanadium	25		1.8		mg/Kg	4		6010B	Total/NA
Copper	22		5.5		mg/Kg	4		6010B	Total/NA
Zinc	97		5.5		mg/Kg	4		6010B	Total/NA
Chromium	36		1.8		mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: EX6-S11-(4.25) (Continued) — Lab Sample ID: 720-52233-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	8.5		0.73		mg/Kg	4		6010B	Total/NA
Mercury	0.025		0.0091		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX6-S12-(4.25) — Lab Sample ID: 720-52233-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	44		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	160		50		mg/Kg	1		8015B	Silica Gel Cleanup
Lead	16		1.9		mg/Kg	4		6010B	Total/NA
Barium	110		1.9		mg/Kg	4		6010B	Total/NA
Nickel	61		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	23		1.9		mg/Kg	4		6010B	Total/NA
Copper	22		5.7		mg/Kg	4		6010B	Total/NA
Zinc	51		5.7		mg/Kg	4		6010B	Total/NA
Chromium	43		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	7.8		0.75		mg/Kg	4		6010B	Total/NA
Mercury	0.021		0.0086		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX6-S13-(4.25) — Lab Sample ID: 720-52233-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	38		25		ug/Kg	5		8270C SIM	Total/NA
Naphthalene	110		25		ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	140		2.0		mg/Kg	2		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	370		99		mg/Kg	2		8015B	Silica Gel Cleanup
Lead	23		1.9		mg/Kg	4		6010B	Total/NA
Barium	84		1.9		mg/Kg	4		6010B	Total/NA
Nickel	49		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	22		1.9		mg/Kg	4		6010B	Total/NA
Copper	21		5.6		mg/Kg	4		6010B	Total/NA
Zinc	38		5.6		mg/Kg	4		6010B	Total/NA
Chromium	36		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	8.0		0.74		mg/Kg	4		6010B	Total/NA
Mercury	0.018		0.0092		mg/Kg	1		7471A	Total/NA

Client Sample ID: CF5-S1-(2.5) — Lab Sample ID: 720-52233-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1900		50		mg/Kg	50		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	4200		2500		mg/Kg	50		8015B	Silica Gel Cleanup

Client Sample ID: CF5-S2-(2.5) — Lab Sample ID: 720-52233-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.6		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: CF5-S3-(2.5) — Lab Sample ID: 720-52233-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.8		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CF5-S4-(2.5) — Lab Sample ID: 720-52233-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1400		50		mg/Kg	50		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	4800		2500		mg/Kg	50		8015B	Silica Gel Cleanup

Client Sample ID: CF5-B2-(5.0) — Lab Sample ID: 720-52233-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1600		50		mg/Kg	50		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	4600		2500		mg/Kg	50		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: EX6-S6-(4.25)
Date Collected: 09/10/13 10:10
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-1
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 21:15	5
Acenaphthylene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 21:15	5
Anthracene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 21:15	5
Benzo[a]anthracene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 21:15	5
Benzo[a]pyrene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 21:15	5
Benzo[b]fluoranthene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 21:15	5
Benzo[g,h,i]perylene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 21:15	5
Benzo[k]fluoranthene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 21:15	5
Chrysene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 21:15	5
Dibenz(a,h)anthracene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 21:15	5
Fluoranthene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 21:15	5
Fluorene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 21:15	5
Indeno[1,2,3-cd]pyrene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 21:15	5
Naphthalene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 21:15	5
Phenanthrene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 21:15	5
Pyrene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 21:15	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*33 - 120*	*09/12/13 07:54*	*09/12/13 21:15*	*5*
Terphenyl-d14	*103*		*35 - 146*	*09/12/13 07:54*	*09/12/13 21:15*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**73**		2.0		mg/Kg		09/12/13 07:59	09/12/13 21:57	2
Motor Oil Range Organics [C24-C36]	**230**		99		mg/Kg		09/12/13 07:59	09/12/13 21:57	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.1*		*0 - 1*	*09/12/13 07:59*	*09/12/13 21:57*	*2*
p-Terphenyl	*79*		*38 - 148*	*09/12/13 07:59*	*09/12/13 21:57*	*2*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.5		mg/Kg		09/10/13 21:28	09/11/13 19:06	4
Lead	**24**		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:06	4
Cadmium	ND		0.44		mg/Kg		09/10/13 21:28	09/11/13 19:06	4
Antimony	ND		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:06	4
Beryllium	ND		0.35		mg/Kg		09/10/13 21:28	09/11/13 19:06	4
Barium	**93**		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:06	4
Thallium	ND		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:06	4
Molybdenum	ND		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:06	4
Nickel	**49**		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:06	4
Vanadium	**23**		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:06	4
Silver	ND		0.88		mg/Kg		09/10/13 21:28	09/11/13 19:06	4
Copper	**26**		5.3		mg/Kg		09/10/13 21:28	09/11/13 19:06	4
Zinc	**73**		5.3		mg/Kg		09/10/13 21:28	09/11/13 22:34	4
Selenium	ND		3.5		mg/Kg		09/10/13 21:28	09/11/13 19:06	4
Chromium	**33**		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:06	4
Cobalt	**8.2**		0.71		mg/Kg		09/10/13 21:28	09/11/13 22:34	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: EX6-S6-(4.25)
Date Collected: 09/10/13 10:10
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-1
Matrix: Solid

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.0090		mg/Kg		09/11/13 14:52	09/12/13 10:50	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: EX6-S7-(4.25)
Date Collected: 09/10/13 10:15
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-2
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		50		ug/Kg		09/12/13 07:54	09/12/13 21:38	10
Acenaphthylene	ND		50		ug/Kg		09/12/13 07:54	09/12/13 21:38	10
Anthracene	ND		50		ug/Kg		09/12/13 07:54	09/12/13 21:38	10
Benzo[a]anthracene	ND		50		ug/Kg		09/12/13 07:54	09/12/13 21:38	10
Benzo[a]pyrene	ND		50		ug/Kg		09/12/13 07:54	09/12/13 21:38	10
Benzo[b]fluoranthene	**54**		50		ug/Kg		09/12/13 07:54	09/12/13 21:38	10
Benzo[g,h,i]perylene	ND		50		ug/Kg		09/12/13 07:54	09/12/13 21:38	10
Benzo[k]fluoranthene	ND		50		ug/Kg		09/12/13 07:54	09/12/13 21:38	10
Chrysene	**96**		50		ug/Kg		09/12/13 07:54	09/12/13 21:38	10
Dibenz(a,h)anthracene	ND		50		ug/Kg		09/12/13 07:54	09/12/13 21:38	10
Fluoranthene	ND		50		ug/Kg		09/12/13 07:54	09/12/13 21:38	10
Fluorene	ND		50		ug/Kg		09/12/13 07:54	09/12/13 21:38	10
Indeno[1,2,3-cd]pyrene	ND		50		ug/Kg		09/12/13 07:54	09/12/13 21:38	10
Naphthalene	ND		50		ug/Kg		09/12/13 07:54	09/12/13 21:38	10
Phenanthrene	ND		50		ug/Kg		09/12/13 07:54	09/12/13 21:38	10
Pyrene	ND		50		ug/Kg		09/12/13 07:54	09/12/13 21:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*33 - 120*	*09/12/13 07:54*	*09/12/13 21:38*	*10*
Terphenyl-d14	*99*		*35 - 146*	*09/12/13 07:54*	*09/12/13 21:38*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**280**		9.9		mg/Kg		09/12/13 07:59	09/12/13 22:21	10
Motor Oil Range Organics [C24-C36]	**760**		500		mg/Kg		09/12/13 07:59	09/12/13 22:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/12/13 07:59*	*09/12/13 22:21*	*10*
p-Terphenyl	*0*	*D X*	*38 - 148*	*09/12/13 07:59*	*09/12/13 22:21*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.8		mg/Kg		09/10/13 21:28	09/11/13 17:47	4
Lead	**10**		1.9		mg/Kg		09/10/13 21:28	09/11/13 17:47	4
Cadmium	ND		0.48		mg/Kg		09/10/13 21:28	09/11/13 17:47	4
Antimony	ND		1.9		mg/Kg		09/10/13 21:28	09/11/13 17:47	4
Beryllium	ND		0.38		mg/Kg		09/10/13 21:28	09/11/13 17:47	4
Barium	**61**		1.9		mg/Kg		09/10/13 21:28	09/11/13 17:47	4
Thallium	ND		1.9		mg/Kg		09/10/13 21:28	09/11/13 17:47	4
Molybdenum	ND		1.9		mg/Kg		09/10/13 21:28	09/11/13 17:47	4
Nickel	**29**		1.9		mg/Kg		09/10/13 21:28	09/11/13 17:47	4
Vanadium	**18**		1.9		mg/Kg		09/10/13 21:28	09/11/13 17:47	4
Silver	ND		0.95		mg/Kg		09/10/13 21:28	09/11/13 17:47	4
Copper	**14**		5.7		mg/Kg		09/10/13 21:28	09/11/13 17:47	4
Zinc	**70**		5.7		mg/Kg		09/10/13 21:28	09/11/13 17:47	4
Selenium	ND		3.8		mg/Kg		09/10/13 21:28	09/11/13 17:47	4
Chromium	**18**		1.9		mg/Kg		09/10/13 21:28	09/11/13 17:47	4
Cobalt	**4.7**		0.76		mg/Kg		09/10/13 21:28	09/11/13 17:47	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: EX6-S7-(4.25)
Date Collected: 09/10/13 10:15
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-2
Matrix: Solid

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.0092		mg/Kg		09/11/13 14:52	09/12/13 10:52	1

Client Sample ID: EX6-S8-(4.25)
Date Collected: 09/10/13 10:25
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-3
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		200		ug/Kg		09/12/13 07:54	09/12/13 22:01	20
Acenaphthylene	ND		200		ug/Kg		09/12/13 07:54	09/12/13 22:01	20
Anthracene	**230**		200		ug/Kg		09/12/13 07:54	09/12/13 22:01	20
Benzo[a]anthracene	ND		200		ug/Kg		09/12/13 07:54	09/12/13 22:01	20
Benzo[a]pyrene	ND		200		ug/Kg		09/12/13 07:54	09/12/13 22:01	20
Benzo[b]fluoranthene	**350**		200		ug/Kg		09/12/13 07:54	09/12/13 22:01	20
Benzo[g,h,i]perylene	**270**		200		ug/Kg		09/12/13 07:54	09/12/13 22:01	20
Benzo[k]fluoranthene	ND		200		ug/Kg		09/12/13 07:54	09/12/13 22:01	20
Chrysene	**410**		200		ug/Kg		09/12/13 07:54	09/12/13 22:01	20
Dibenz(a,h)anthracene	ND		200		ug/Kg		09/12/13 07:54	09/12/13 22:01	20
Fluoranthene	ND		200		ug/Kg		09/12/13 07:54	09/12/13 22:01	20
Fluorene	ND		200		ug/Kg		09/12/13 07:54	09/12/13 22:01	20
Indeno[1,2,3-cd]pyrene	ND		200		ug/Kg		09/12/13 07:54	09/12/13 22:01	20
Naphthalene	ND		200		ug/Kg		09/12/13 07:54	09/12/13 22:01	20
Phenanthrene	**230**		200		ug/Kg		09/12/13 07:54	09/12/13 22:01	20
Pyrene	**640**		200		ug/Kg		09/12/13 07:54	09/12/13 22:01	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*33 - 120*	*09/12/13 07:54*	*09/12/13 22:01*	*20*
Terphenyl-d14	*98*		*35 - 146*	*09/12/13 07:54*	*09/12/13 22:01*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1400**		25		mg/Kg		09/12/13 07:59	09/12/13 22:45	10
Motor Oil Range Organics [C24-C36]	**3800**		1200		mg/Kg		09/12/13 07:59	09/12/13 22:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/12/13 07:59*	*09/12/13 22:45*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*09/12/13 07:59*	*09/12/13 22:45*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.7		mg/Kg		09/10/13 21:28	09/11/13 19:11	4
Lead	**10**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:11	4
Cadmium	ND		0.46		mg/Kg		09/10/13 21:28	09/11/13 19:11	4
Antimony	ND		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:11	4
Beryllium	ND		0.37		mg/Kg		09/10/13 21:28	09/11/13 19:11	4
Barium	**65**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:11	4
Thallium	ND		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:11	4
Molybdenum	ND		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:11	4
Nickel	**42**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:11	4
Vanadium	**26**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:11	4
Silver	ND		0.93		mg/Kg		09/10/13 21:28	09/11/13 19:11	4
Copper	**17**		5.6		mg/Kg		09/10/13 21:28	09/11/13 19:11	4
Zinc	**56**		5.6		mg/Kg		09/10/13 21:28	09/11/13 22:38	4
Selenium	ND		3.7		mg/Kg		09/10/13 21:28	09/11/13 19:11	4
Chromium	**30**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:11	4
Cobalt	**5.9**		0.74		mg/Kg		09/10/13 21:28	09/11/13 22:38	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: EX6-S8-(4.25)
Date Collected: 09/10/13 10:25
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-3
Matrix: Solid

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.0097		mg/Kg		09/11/13 14:52	09/12/13 10:55	1

Client Sample ID: EX6-S9-(4.25)
Date Collected: 09/10/13 10:30
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-4
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:24	5
Acenaphthylene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:24	5
Anthracene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:24	5
Benzo[a]anthracene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:24	5
Benzo[a]pyrene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:24	5
Benzo[b]fluoranthene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:24	5
Benzo[g,h,i]perylene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:24	5
Benzo[k]fluoranthene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:24	5
Chrysene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:24	5
Dibenz(a,h)anthracene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:24	5
Fluoranthene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:24	5
Fluorene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:24	5
Indeno[1,2,3-cd]pyrene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:24	5
Naphthalene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:24	5
Phenanthrene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:24	5
Pyrene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*33 - 120*	*09/12/13 07:54*	*09/12/13 22:24*	*5*
Terphenyl-d14	*94*		*35 - 146*	*09/12/13 07:54*	*09/12/13 22:24*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**59**		2.0		mg/Kg		09/12/13 07:59	09/12/13 20:19	2
Motor Oil Range Organics [C24-C36]	**180**		100		mg/Kg		09/12/13 07:59	09/12/13 20:19	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.1*		*0 - 1*	*09/12/13 07:59*	*09/12/13 20:19*	*2*
p-Terphenyl	*77*		*38 - 148*	*09/12/13 07:59*	*09/12/13 20:19*	*2*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.6		mg/Kg		09/10/13 21:28	09/11/13 19:15	4
Lead	**8.2**		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:15	4
Cadmium	ND		0.45		mg/Kg		09/10/13 21:28	09/11/13 19:15	4
Antimony	ND		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:15	4
Beryllium	ND		0.36		mg/Kg		09/10/13 21:28	09/11/13 19:15	4
Barium	**69**		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:15	4
Thallium	ND		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:15	4
Molybdenum	ND		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:15	4
Nickel	**43**		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:15	4
Vanadium	**25**		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:15	4
Silver	ND		0.91		mg/Kg		09/10/13 21:28	09/11/13 19:15	4
Copper	**18**		5.5		mg/Kg		09/10/13 21:28	09/11/13 19:15	4
Zinc	**48**		5.5		mg/Kg		09/10/13 21:28	09/11/13 22:42	4
Selenium	ND		3.6		mg/Kg		09/10/13 21:28	09/11/13 19:15	4
Chromium	**30**		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:15	4
Cobalt	**7.7**		0.73		mg/Kg		09/10/13 21:28	09/11/13 22:42	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: EX6-S9-(4.25)
Date Collected: 09/10/13 10:30
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-4
Matrix: Solid

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.071		0.0090		mg/Kg		09/11/13 14:52	09/12/13 10:57	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: EX6-S10-(4.25)
Date Collected: 09/10/13 10:40
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-5
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:47	5
Acenaphthylene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:47	5
Anthracene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:47	5
Benzo[a]anthracene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:47	5
Benzo[a]pyrene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:47	5
Benzo[b]fluoranthene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:47	5
Benzo[g,h,i]perylene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:47	5
Benzo[k]fluoranthene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:47	5
Chrysene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:47	5
Dibenz(a,h)anthracene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:47	5
Fluoranthene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:47	5
Fluorene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:47	5
Indeno[1,2,3-cd]pyrene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:47	5
Naphthalene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:47	5
Phenanthrene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:47	5
Pyrene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 22:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*33 - 120*	*09/12/13 07:54*	*09/12/13 22:47*	*5*
Terphenyl-d14	*79*		*35 - 146*	*09/12/13 07:54*	*09/12/13 22:47*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**31**		1.0		mg/Kg		09/12/13 07:59	09/12/13 21:08	1
Motor Oil Range Organics [C24-C36]	**100**		50		mg/Kg		09/12/13 07:59	09/12/13 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.08*		*0 - 1*	*09/12/13 07:59*	*09/12/13 21:08*	*1*
p-Terphenyl	*63*		*38 - 148*	*09/12/13 07:59*	*09/12/13 21:08*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.9		mg/Kg		09/10/13 21:28	09/11/13 19:19	4
Lead	**8.8**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:19	4
Cadmium	ND		0.49		mg/Kg		09/10/13 21:28	09/11/13 19:19	4
Antimony	ND		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:19	4
Beryllium	ND		0.39		mg/Kg		09/10/13 21:28	09/11/13 19:19	4
Barium	**92**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:19	4
Thallium	ND		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:19	4
Molybdenum	ND		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:19	4
Nickel	**61**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:19	4
Vanadium	**29**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:19	4
Silver	ND		0.97		mg/Kg		09/10/13 21:28	09/11/13 19:19	4
Copper	**30**		5.8		mg/Kg		09/10/13 21:28	09/11/13 19:19	4
Zinc	**46**		5.8		mg/Kg		09/10/13 21:28	09/11/13 22:47	4
Selenium	ND		3.9		mg/Kg		09/10/13 21:28	09/11/13 19:19	4
Chromium	**35**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:19	4
Cobalt	**9.2**		0.78		mg/Kg		09/10/13 21:28	09/11/13 22:47	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: EX6-S10-(4.25)
Date Collected: 09/10/13 10:40
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-5
Matrix: Solid

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.0091		mg/Kg		09/11/13 14:52	09/12/13 11:00	1

Client Sample ID: EX6-S11-(4.25)
Date Collected: 09/10/13 10:45
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-6
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 23:10	2
Acenaphthylene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 23:10	2
Anthracene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 23:10	2
Benzo[a]anthracene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 23:10	2
Benzo[a]pyrene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 23:10	2
Benzo[b]fluoranthene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 23:10	2
Benzo[g,h,i]perylene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 23:10	2
Benzo[k]fluoranthene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 23:10	2
Chrysene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 23:10	2
Dibenz(a,h)anthracene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 23:10	2
Fluoranthene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 23:10	2
Fluorene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 23:10	2
Indeno[1,2,3-cd]pyrene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 23:10	2
Naphthalene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 23:10	2
Phenanthrene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 23:10	2
Pyrene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 23:10	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*33 - 120*	*09/12/13 07:54*	*09/12/13 23:10*	*2*
Terphenyl-d14	*116*		*35 - 146*	*09/12/13 07:54*	*09/12/13 23:10*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**18**		1.0		mg/Kg		09/12/13 07:59	09/12/13 20:43	1
Motor Oil Range Organics [C24-C36]	**50**		50		mg/Kg		09/12/13 07:59	09/12/13 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*09/12/13 07:59*	*09/12/13 20:43*	*1*
p-Terphenyl	*75*		*38 - 148*	*09/12/13 07:59*	*09/12/13 20:43*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.7		mg/Kg		09/10/13 21:28	09/11/13 19:23	4
Lead	**16**		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:23	4
Cadmium	ND		0.46		mg/Kg		09/10/13 21:28	09/11/13 19:23	4
Antimony	ND		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:23	4
Beryllium	ND		0.37		mg/Kg		09/10/13 21:28	09/11/13 19:23	4
Barium	**74**		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:23	4
Thallium	ND		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:23	4
Molybdenum	ND		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:23	4
Nickel	**52**		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:23	4
Vanadium	**25**		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:23	4
Silver	ND		0.92		mg/Kg		09/10/13 21:28	09/11/13 19:23	4
Copper	**22**		5.5		mg/Kg		09/10/13 21:28	09/11/13 19:23	4
Zinc	**97**		5.5		mg/Kg		09/10/13 21:28	09/11/13 22:51	4
Selenium	ND		3.7		mg/Kg		09/10/13 21:28	09/11/13 19:23	4
Chromium	**36**		1.8		mg/Kg		09/10/13 21:28	09/11/13 19:23	4
Cobalt	**8.5**		0.73		mg/Kg		09/10/13 21:28	09/11/13 22:51	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: EX6-S11-(4.25)
Date Collected: 09/10/13 10:45
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-6
Matrix: Solid

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.0091		mg/Kg		09/11/13 14:52	09/12/13 11:07	1

Client Sample ID: EX6-S12-(4.25)
Date Collected: 09/10/13 10:50
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-7
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 19:19	2
Acenaphthylene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 19:19	2
Anthracene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 19:19	2
Benzo[a]anthracene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 19:19	2
Benzo[a]pyrene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 19:19	2
Benzo[b]fluoranthene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 19:19	2
Benzo[g,h,i]perylene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 19:19	2
Benzo[k]fluoranthene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 19:19	2
Chrysene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 19:19	2
Dibenz(a,h)anthracene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 19:19	2
Fluoranthene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 19:19	2
Fluorene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 19:19	2
Indeno[1,2,3-cd]pyrene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 19:19	2
Naphthalene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 19:19	2
Phenanthrene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 19:19	2
Pyrene	ND		9.9		ug/Kg		09/12/13 07:54	09/12/13 19:19	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*33 - 120*	*09/12/13 07:54*	*09/12/13 19:19*	*2*
Terphenyl-d14	*100*		*35 - 146*	*09/12/13 07:54*	*09/12/13 19:19*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**44**		0.99		mg/Kg		09/12/13 07:59	09/12/13 21:32	1
Motor Oil Range Organics [C24-C36]	**160**		50		mg/Kg		09/12/13 07:59	09/12/13 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.08*		*0 - 1*	*09/12/13 07:59*	*09/12/13 21:32*	*1*
p-Terphenyl	*63*		*38 - 148*	*09/12/13 07:59*	*09/12/13 21:32*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.8		mg/Kg		09/10/13 21:28	09/11/13 19:27	4
Lead	**16**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:27	4
Cadmium	ND		0.47		mg/Kg		09/10/13 21:28	09/11/13 19:27	4
Antimony	ND		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:27	4
Beryllium	ND		0.38		mg/Kg		09/10/13 21:28	09/11/13 19:27	4
Barium	**110**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:27	4
Thallium	ND		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:27	4
Molybdenum	ND		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:27	4
Nickel	**61**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:27	4
Vanadium	**23**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:27	4
Silver	ND		0.94		mg/Kg		09/10/13 21:28	09/11/13 19:27	4
Copper	**22**		5.7		mg/Kg		09/10/13 21:28	09/11/13 19:27	4
Zinc	**51**		5.7		mg/Kg		09/10/13 21:28	09/11/13 22:55	4
Selenium	ND		3.8		mg/Kg		09/10/13 21:28	09/11/13 19:27	4
Chromium	**43**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:27	4
Cobalt	**7.8**		0.75		mg/Kg		09/10/13 21:28	09/11/13 22:55	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: EX6-S12-(4.25)
Date Collected: 09/10/13 10:50
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-7
Matrix: Solid

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.0086		mg/Kg		09/11/13 14:52	09/12/13 11:09	1

Client Sample ID: EX6-S13-(4.25)
Date Collected: 09/10/13 10:55
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-8
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 19:42	5
Acenaphthylene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 19:42	5
Anthracene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 19:42	5
Benzo[a]anthracene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 19:42	5
Benzo[a]pyrene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 19:42	5
Benzo[b]fluoranthene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 19:42	5
Benzo[g,h,i]perylene	**38**		25		ug/Kg		09/12/13 07:54	09/12/13 19:42	5
Benzo[k]fluoranthene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 19:42	5
Chrysene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 19:42	5
Dibenz(a,h)anthracene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 19:42	5
Fluoranthene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 19:42	5
Fluorene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 19:42	5
Indeno[1,2,3-cd]pyrene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 19:42	5
Naphthalene	**110**		25		ug/Kg		09/12/13 07:54	09/12/13 19:42	5
Phenanthrene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 19:42	5
Pyrene	ND		25		ug/Kg		09/12/13 07:54	09/12/13 19:42	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*108*		*33 - 120*	*09/12/13 07:54*	*09/12/13 19:42*	*5*
Terphenyl-d14	*137*		*35 - 146*	*09/12/13 07:54*	*09/12/13 19:42*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**140**		2.0		mg/Kg		09/12/13 07:59	09/12/13 23:11	2
Motor Oil Range Organics [C24-C36]	**370**		99		mg/Kg		09/12/13 07:59	09/12/13 23:11	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/12/13 07:59*	*09/12/13 23:11*	*2*
p-Terphenyl	*0*	*X D*	*38 - 148*	*09/12/13 07:59*	*09/12/13 23:11*	*2*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.7		mg/Kg		09/10/13 21:28	09/11/13 19:32	4
Lead	**23**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:32	4
Cadmium	ND		0.46		mg/Kg		09/10/13 21:28	09/11/13 19:32	4
Antimony	ND		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:32	4
Beryllium	ND		0.37		mg/Kg		09/10/13 21:28	09/11/13 19:32	4
Barium	**84**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:32	4
Thallium	ND		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:32	4
Molybdenum	ND		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:32	4
Nickel	**49**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:32	4
Vanadium	**22**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:32	4
Silver	ND		0.93		mg/Kg		09/10/13 21:28	09/11/13 19:32	4
Copper	**21**		5.6		mg/Kg		09/10/13 21:28	09/11/13 19:32	4
Zinc	**38**		5.6		mg/Kg		09/10/13 21:28	09/11/13 23:00	4
Selenium	ND		3.7		mg/Kg		09/10/13 21:28	09/11/13 19:32	4
Chromium	**36**		1.9		mg/Kg		09/10/13 21:28	09/11/13 19:32	4
Cobalt	**8.0**		0.74		mg/Kg		09/10/13 21:28	09/11/13 23:00	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: EX6-S13-(4.25)
Date Collected: 09/10/13 10:55
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-8
Matrix: Solid

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.0092		mg/Kg		09/11/13 14:52	09/12/13 11:12	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: CF5-S1-(2.5)
Date Collected: 09/10/13 13:20
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-9
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1900		50		mg/Kg		09/12/13 07:59	09/13/13 10:12	50
Motor Oil Range Organics [C24-C36]	4200		2500		mg/Kg		09/12/13 07:59	09/13/13 10:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/12/13 07:59*	*09/13/13 10:12*	*50*
p-Terphenyl	*0*	*X D*	*38 - 148*	*09/12/13 07:59*	*09/13/13 10:12*	*50*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: CF5-S2-(2.5)
Date Collected: 09/10/13 13:25
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-10
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.6**		0.99		mg/Kg		09/12/13 07:59	09/12/13 19:55	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		09/12/13 07:59	09/12/13 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*09/12/13 07:59*	*09/12/13 19:55*	*1*
p-Terphenyl	*93*		*38 - 148*	*09/12/13 07:59*	*09/12/13 19:55*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: CF5-S3-(2.5)
Date Collected: 09/10/13 13:30
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-11
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.8**		1.0		mg/Kg		09/12/13 07:59	09/12/13 20:19	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		09/12/13 07:59	09/12/13 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*09/12/13 07:59*	*09/12/13 20:19*	*1*
p-Terphenyl	*99*		*38 - 148*	*09/12/13 07:59*	*09/12/13 20:19*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: CF5-S4-(2.5)
Date Collected: 09/10/13 13:35
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-12
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1400		50		mg/Kg		09/12/13 07:59	09/13/13 09:48	50
Motor Oil Range Organics [C24-C36]	4800		2500		mg/Kg		09/12/13 07:59	09/13/13 09:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/12/13 07:59*	*09/13/13 09:48*	*50*
p-Terphenyl	*0*	*X D*	*38 - 148*	*09/12/13 07:59*	*09/13/13 09:48*	*50*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: CF5-B2-(5.0)
Date Collected: 09/10/13 13:40
Date Received: 09/10/13 16:20

Lab Sample ID: 720-52233-13
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1600		50		mg/Kg		09/12/13 07:59	09/13/13 10:12	50
Motor Oil Range Organics [C24-C36]	4600		2500		mg/Kg		09/12/13 07:59	09/13/13 10:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/12/13 07:59*	*09/13/13 10:12*	*50*
p-Terphenyl	*0*	*X D*	*38 - 148*	*09/12/13 07:59*	*09/13/13 10:12*	*50*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-144074/1-A
Matrix: Solid
Analysis Batch: 144185

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 144074

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		09/12/13 07:54	09/13/13 19:33	1
Acenaphthylene	ND		5.0		ug/Kg		09/12/13 07:54	09/13/13 19:33	1
Anthracene	ND		5.0		ug/Kg		09/12/13 07:54	09/13/13 19:33	1
Benzo[a]anthracene	ND		5.0		ug/Kg		09/12/13 07:54	09/13/13 19:33	1
Benzo[a]pyrene	ND		5.0		ug/Kg		09/12/13 07:54	09/13/13 19:33	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		09/12/13 07:54	09/13/13 19:33	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		09/12/13 07:54	09/13/13 19:33	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		09/12/13 07:54	09/13/13 19:33	1
Chrysene	ND		5.0		ug/Kg		09/12/13 07:54	09/13/13 19:33	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		09/12/13 07:54	09/13/13 19:33	1
Fluoranthene	ND		5.0		ug/Kg		09/12/13 07:54	09/13/13 19:33	1
Fluorene	ND		5.0		ug/Kg		09/12/13 07:54	09/13/13 19:33	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		09/12/13 07:54	09/13/13 19:33	1
Naphthalene	ND		5.0		ug/Kg		09/12/13 07:54	09/13/13 19:33	1
Phenanthrene	ND		5.0		ug/Kg		09/12/13 07:54	09/13/13 19:33	1
Pyrene	ND		5.0		ug/Kg		09/12/13 07:54	09/13/13 19:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*33 - 120*	*09/12/13 07:54*	*09/13/13 19:33*	*1*
Terphenyl-d14	*110*		*35 - 146*	*09/12/13 07:54*	*09/13/13 19:33*	*1*

Lab Sample ID: LCS 720-144074/2-A
Matrix: Solid
Analysis Batch: 144275

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 144074

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	333	262		ug/Kg		78	49 - 120
Acenaphthylene	333	265		ug/Kg		79	52 - 120
Anthracene	333	286		ug/Kg		86	52 - 120
Benzo[a]anthracene	333	294		ug/Kg		88	52 - 120
Benzo[a]pyrene	333	300		ug/Kg		90	54 - 120
Benzo[b]fluoranthene	333	337		ug/Kg		101	51 - 120
Benzo[g,h,i]perylene	333	288		ug/Kg		86	48 - 120
Benzo[k]fluoranthene	333	333		ug/Kg		100	56 - 120
Chrysene	333	300		ug/Kg		90	40 - 120
Dibenz(a,h)anthracene	333	300		ug/Kg		90	50 - 120
Fluoranthene	333	311		ug/Kg		93	57 - 120
Fluorene	333	302		ug/Kg		91	52 - 120
Indeno[1,2,3-cd]pyrene	333	305		ug/Kg		91	48 - 120
Naphthalene	333	246		ug/Kg		74	46 - 120
Phenanthrene	333	284		ug/Kg		85	48 - 120
Pyrene	333	257		ug/Kg		77	53 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*100*		*33 - 120*
Terphenyl-d14	*84*		*35 - 146*

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-144074/3-A
Matrix: Solid
Analysis Batch: 144275

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 144074

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			332	268		ug/Kg		81	49 - 120	2	20
Acenaphthylene			332	277		ug/Kg		83	52 - 120	5	20
Anthracene			332	285		ug/Kg		86	52 - 120	0	20
Benzo[a]anthracene			332	290		ug/Kg		87	52 - 120	1	20
Benzo[a]pyrene			332	303		ug/Kg		91	54 - 120	1	20
Benzo[b]fluoranthene			332	338		ug/Kg		102	51 - 120	0	20
Benzo[g,h,i]perylene			332	293		ug/Kg		88	48 - 120	2	20
Benzo[k]fluoranthene			332	330		ug/Kg		99	56 - 120	1	20
Chrysene			332	306		ug/Kg		92	40 - 120	2	20
Dibenz(a,h)anthracene			332	289		ug/Kg		87	50 - 120	4	20
Fluoranthene			332	295		ug/Kg		89	57 - 120	5	20
Fluorene			332	302		ug/Kg		91	52 - 120	0	20
Indeno[1,2,3-cd]pyrene			332	293		ug/Kg		88	48 - 120	4	20
Naphthalene			332	259		ug/Kg		78	46 - 120	5	20
Phenanthrene			332	284		ug/Kg		86	48 - 120	0	20
Pyrene			332	289		ug/Kg		87	53 - 120	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*94*		*33 - 120*
Terphenyl-d14	*94*		*35 - 146*

Lab Sample ID: 720-52233-1 MS
Matrix: Solid
Analysis Batch: 144092

Client Sample ID: EX6-S6-(4.25)
Prep Type: Total/NA
Prep Batch: 144074

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		332	304		ug/Kg		92	33 - 120
Acenaphthylene	ND		332	318		ug/Kg		96	28 - 120
Anthracene	ND		332	300		ug/Kg		90	36 - 120
Benzo[a]anthracene	ND		332	325		ug/Kg		98	29 - 120
Benzo[a]pyrene	ND		332	310		ug/Kg		93	24 - 120
Benzo[b]fluoranthene	ND		332	388		ug/Kg		115	17 - 132
Benzo[g,h,i]perylene	ND		332	226		ug/Kg		64	21 - 120
Benzo[k]fluoranthene	ND		332	317		ug/Kg		96	35 - 120
Chrysene	ND		332	298		ug/Kg		90	29 - 120
Dibenz(a,h)anthracene	ND		332	233		ug/Kg		70	36 - 120
Fluoranthene	ND		332	415	F	ug/Kg		122	24 - 120
Fluorene	ND		332	316		ug/Kg		95	35 - 120
Indeno[1,2,3-cd]pyrene	ND		332	222		ug/Kg		67	20 - 126
Naphthalene	ND		332	270		ug/Kg		81	32 - 120
Phenanthrene	ND		332	322		ug/Kg		94	28 - 120
Pyrene	ND		332	379		ug/Kg		112	24 - 123

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*72*		*33 - 120*
Terphenyl-d14	*108*		*35 - 146*

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: 720-52233-1 MSD
Matrix: Solid
Analysis Batch: 144092

Client Sample ID: EX6-S6-(4.25)
Prep Type: Total/NA
Prep Batch: 144074

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		332	290		ug/Kg		87	33 - 120	5	20
Acenaphthylene	ND		332	289		ug/Kg		87	28 - 120	10	20
Anthracene	ND		332	314		ug/Kg		95	36 - 120	5	20
Benzo[a]anthracene	ND		332	309		ug/Kg		93	29 - 120	5	20
Benzo[a]pyrene	ND		332	321		ug/Kg		97	24 - 120	4	20
Benzo[b]fluoranthene	ND		332	383		ug/Kg		113	17 - 132	1	20
Benzo[g,h,i]perylene	ND		332	167	F	ug/Kg		46	21 - 120	30	20
Benzo[k]fluoranthene	ND		332	324		ug/Kg		98	35 - 120	2	20
Chrysene	ND		332	277		ug/Kg		84	29 - 120	7	20
Dibenz(a,h)anthracene	ND		332	204		ug/Kg		62	36 - 120	13	20
Fluoranthene	ND		332	315	F	ug/Kg		92	24 - 120	27	20
Fluorene	ND		332	278		ug/Kg		84	35 - 120	13	20
Indeno[1,2,3-cd]pyrene	ND		332	190		ug/Kg		57	20 - 126	15	20
Naphthalene	ND		332	265		ug/Kg		80	32 - 120	2	20
Phenanthrene	ND		332	295		ug/Kg		86	28 - 120	9	20
Pyrene	ND		332	263	F	ug/Kg		77	24 - 123	36	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*33 - 120*
Terphenyl-d14	*90*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-144075/1-A
Matrix: Solid
Analysis Batch: 144087

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 144075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		09/12/13 07:59	09/12/13 22:44	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		09/12/13 07:59	09/12/13 22:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.03*		*0 - 1*	*09/12/13 07:59*	*09/12/13 22:44*	*1*
p-Terphenyl	*115*		*38 - 148*	*09/12/13 07:59*	*09/12/13 22:44*	*1*

Lab Sample ID: LCS 720-144075/2-A
Matrix: Solid
Analysis Batch: 144087

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 144075

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			83.2	74.0		mg/Kg		89	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*97*		*38 - 148*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-144075/3-A
Matrix: Solid
Analysis Batch: 144087

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 144075

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			83.3	74.3		mg/Kg		89	36 - 112	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*100*		*38 - 148*

Lab Sample ID: 720-52233-2 MS
Matrix: Solid
Analysis Batch: 144072

Client Sample ID: EX6-S7-(4.25)
Prep Type: Silica Gel Cleanup
Prep Batch: 144075

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	280		82.7	405		mg/Kg		146	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*0*	*D X*	*38 - 148*

Lab Sample ID: 720-52233-2 MSD
Matrix: Solid
Analysis Batch: 144072

Client Sample ID: EX6-S7-(4.25)
Prep Type: Silica Gel Cleanup
Prep Batch: 144075

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	280		82.8	397		mg/Kg		136	50 - 150	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*0*	*D X*	*38 - 148*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-143986/1-A
Matrix: Solid
Analysis Batch: 144051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143986

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Lead	ND		0.50		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Cadmium	ND		0.13		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Antimony	ND		0.50		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Beryllium	ND		0.10		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Barium	ND		0.50		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Thallium	ND		0.50		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Molybdenum	ND		0.50		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Nickel	ND		0.50		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Vanadium	ND		0.50		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Silver	ND		0.25		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Copper	ND		1.5		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Zinc	ND		1.5		mg/Kg		09/10/13 21:28	09/11/13 17:26	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-143986/1-A
Matrix: Solid
Analysis Batch: 144051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143986

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		1.0		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Chromium	ND		0.50		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Cobalt	ND		0.20		mg/Kg		09/10/13 21:28	09/11/13 17:26	1

Lab Sample ID: LCS 720-143986/2-A
Matrix: Solid
Analysis Batch: 144051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	47.9		mg/Kg		96	80 - 120
Lead	50.0	49.0		mg/Kg		98	80 - 120
Cadmium	50.0	48.1		mg/Kg		96	80 - 120
Antimony	50.0	46.6		mg/Kg		93	80 - 120
Beryllium	50.0	49.7		mg/Kg		99	80 - 120
Barium	50.0	49.1		mg/Kg		98	80 - 120
Thallium	50.0	48.9		mg/Kg		98	80 - 120
Molybdenum	50.0	49.3		mg/Kg		99	80 - 120
Nickel	50.0	49.2		mg/Kg		98	80 - 120
Vanadium	50.0	48.9		mg/Kg		98	80 - 120
Silver	25.0	24.3		mg/Kg		97	80 - 120
Copper	50.0	49.9		mg/Kg		100	80 - 120
Zinc	50.0	48.5		mg/Kg		97	80 - 120
Selenium	50.0	45.7		mg/Kg		91	80 - 120
Chromium	50.0	49.6		mg/Kg		99	80 - 120
Cobalt	50.0	49.5		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 720-143986/3-A
Matrix: Solid
Analysis Batch: 144051

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 143986

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	50.0	46.4		mg/Kg		93	80 - 120	3	20
Lead	50.0	47.8		mg/Kg		96	80 - 120	3	20
Cadmium	50.0	47.0		mg/Kg		94	80 - 120	2	20
Antimony	50.0	45.7		mg/Kg		91	80 - 120	2	20
Beryllium	50.0	49.0		mg/Kg		98	80 - 120	1	20
Barium	50.0	48.5		mg/Kg		97	80 - 120	1	20
Thallium	50.0	47.6		mg/Kg		95	80 - 120	3	20
Molybdenum	50.0	48.2		mg/Kg		96	80 - 120	2	20
Nickel	50.0	48.0		mg/Kg		96	80 - 120	3	20
Vanadium	50.0	47.1		mg/Kg		94	80 - 120	4	20
Silver	25.0	23.2		mg/Kg		93	80 - 120	5	20
Copper	50.0	47.7		mg/Kg		95	80 - 120	5	20
Zinc	50.0	47.0		mg/Kg		94	80 - 120	3	20
Selenium	50.0	44.5		mg/Kg		89	80 - 120	3	20
Chromium	50.0	47.4		mg/Kg		95	80 - 120	4	20
Cobalt	50.0	48.1		mg/Kg		96	80 - 120	3	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-52233-2 MS
Matrix: Solid
Analysis Batch: 144051

Client Sample ID: EX6-S7-(4.25)
Prep Type: Total/NA
Prep Batch: 143986

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		46.3	43.7		mg/Kg		90	75 - 125
Lead	10		46.3	53.2		mg/Kg		93	75 - 125
Cadmium	ND		46.3	41.3		mg/Kg		89	75 - 125
Antimony	ND		46.3	19.3	F	mg/Kg		42	75 - 125
Beryllium	ND		46.3	41.0		mg/Kg		89	75 - 125
Barium	61		46.3	127	F	mg/Kg		142	75 - 125
Thallium	ND		46.3	40.8		mg/Kg		88	75 - 125
Molybdenum	ND		46.3	40.1		mg/Kg		87	75 - 125
Nickel	29		46.3	82.8		mg/Kg		116	75 - 125
Vanadium	18		46.3	66.7		mg/Kg		105	75 - 125
Silver	ND		23.1	20.0		mg/Kg		86	75 - 125
Copper	14		46.3	62.3		mg/Kg		104	75 - 125
Zinc	70		46.3	127		mg/Kg		121	75 - 125
Selenium	ND		46.3	39.4		mg/Kg		85	75 - 125
Chromium	18		46.3	67.8		mg/Kg		108	75 - 125
Cobalt	4.7		46.3	49.2		mg/Kg		96	75 - 125

Lab Sample ID: 720-52233-2 MSD
Matrix: Solid
Analysis Batch: 144051

Client Sample ID: EX6-S7-(4.25)
Prep Type: Total/NA
Prep Batch: 143986

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		48.1	45.1		mg/Kg		90	75 - 125	3	20
Lead	10		48.1	56.0		mg/Kg		95	75 - 125	5	20
Cadmium	ND		48.1	43.1		mg/Kg		89	75 - 125	4	20
Antimony	ND		48.1	19.7	F	mg/Kg		41	75 - 125	2	20
Beryllium	ND		48.1	43.8		mg/Kg		91	75 - 125	7	20
Barium	61		48.1	122		mg/Kg		125	75 - 125	4	20
Thallium	ND		48.1	42.7		mg/Kg		89	75 - 125	5	20
Molybdenum	ND		48.1	41.6		mg/Kg		87	75 - 125	4	20
Nickel	29		48.1	86.9		mg/Kg		121	75 - 125	5	20
Vanadium	18		48.1	67.5		mg/Kg		103	75 - 125	1	20
Silver	ND		24.0	20.3		mg/Kg		85	75 - 125	2	20
Copper	14		48.1	63.6		mg/Kg		103	75 - 125	2	20
Zinc	70		48.1	132	F	mg/Kg		128	75 - 125	4	20
Selenium	ND		48.1	40.8		mg/Kg		85	75 - 125	4	20
Chromium	18		48.1	70.9		mg/Kg		110	75 - 125	4	20
Cobalt	4.7		48.1	50.2		mg/Kg		95	75 - 125	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-144035/1-A
Matrix: Solid
Analysis Batch: 144098

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 144035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		09/11/13 14:52	09/12/13 10:36	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-144035/2-A
Matrix: Solid
Analysis Batch: 144098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 144035

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.832		mg/Kg		100	80 - 120		

Lab Sample ID: LCSD 720-144035/3-A
Matrix: Solid
Analysis Batch: 144098

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 144035

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.833	0.831		mg/Kg		100	80 - 120	0	20

Lab Sample ID: 720-52233-1 MS
Matrix: Solid
Analysis Batch: 144098

Client Sample ID: EX6-S6-(4.25)
Prep Type: Total/NA
Prep Batch: 144035

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.021		0.758	0.841		mg/Kg		108	75 - 125		

Lab Sample ID: 720-52233-1 MSD
Matrix: Solid
Analysis Batch: 144098

Client Sample ID: EX6-S6-(4.25)
Prep Type: Total/NA
Prep Batch: 144035

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.021		0.820	0.910		mg/Kg		108	75 - 125	8	20

GC/MS Semi VOA

Prep Batch: 144074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52233-1	EX6-S6-(4.25)	Total/NA	Solid	3546	
720-52233-1 MS	EX6-S6-(4.25)	Total/NA	Solid	3546	
720-52233-1 MSD	EX6-S6-(4.25)	Total/NA	Solid	3546	
720-52233-2	EX6-S7-(4.25)	Total/NA	Solid	3546	
720-52233-3	EX6-S8-(4.25)	Total/NA	Solid	3546	
720-52233-4	EX6-S9-(4.25)	Total/NA	Solid	3546	
720-52233-5	EX6-S10-(4.25)	Total/NA	Solid	3546	
720-52233-6	EX6-S11-(4.25)	Total/NA	Solid	3546	
720-52233-7	EX6-S12-(4.25)	Total/NA	Solid	3546	
720-52233-8	EX6-S13-(4.25)	Total/NA	Solid	3546	
LCS 720-144074/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-144074/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-144074/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 144092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52233-1	EX6-S6-(4.25)	Total/NA	Solid	8270C SIM	144074
720-52233-1 MS	EX6-S6-(4.25)	Total/NA	Solid	8270C SIM	144074
720-52233-1 MSD	EX6-S6-(4.25)	Total/NA	Solid	8270C SIM	144074
720-52233-2	EX6-S7-(4.25)	Total/NA	Solid	8270C SIM	144074
720-52233-3	EX6-S8-(4.25)	Total/NA	Solid	8270C SIM	144074
720-52233-4	EX6-S9-(4.25)	Total/NA	Solid	8270C SIM	144074
720-52233-5	EX6-S10-(4.25)	Total/NA	Solid	8270C SIM	144074
720-52233-6	EX6-S11-(4.25)	Total/NA	Solid	8270C SIM	144074
720-52233-7	EX6-S12-(4.25)	Total/NA	Solid	8270C SIM	144074
720-52233-8	EX6-S13-(4.25)	Total/NA	Solid	8270C SIM	144074

Analysis Batch: 144185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-144074/1-A	Method Blank	Total/NA	Solid	8270C SIM	144074

Analysis Batch: 144275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-144074/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	144074
LCSD 720-144074/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	144074

GC Semi VOA

Analysis Batch: 144071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52233-3	EX6-S8-(4.25)	Silica Gel Cleanup	Solid	8015B	144075
720-52233-5	EX6-S10-(4.25)	Silica Gel Cleanup	Solid	8015B	144075
720-52233-6	EX6-S11-(4.25)	Silica Gel Cleanup	Solid	8015B	144075
720-52233-7	EX6-S12-(4.25)	Silica Gel Cleanup	Solid	8015B	144075
720-52233-8	EX6-S13-(4.25)	Silica Gel Cleanup	Solid	8015B	144075
720-52233-10	CF5-S2-(2.5)	Silica Gel Cleanup	Solid	8015B	144075
720-52233-11	CF5-S3-(2.5)	Silica Gel Cleanup	Solid	8015B	144075

GC Semi VOA (Continued)

Analysis Batch: 144072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52233-1	EX6-S6-(4.25)	Silica Gel Cleanup	Solid	8015B	144075
720-52233-2	EX6-S7-(4.25)	Silica Gel Cleanup	Solid	8015B	144075
720-52233-2 MS	EX6-S7-(4.25)	Silica Gel Cleanup	Solid	8015B	144075
720-52233-2 MSD	EX6-S7-(4.25)	Silica Gel Cleanup	Solid	8015B	144075
720-52233-4	EX6-S9-(4.25)	Silica Gel Cleanup	Solid	8015B	144075

Prep Batch: 144075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52233-1	EX6-S6-(4.25)	Silica Gel Cleanup	Solid	3546	
720-52233-2	EX6-S7-(4.25)	Silica Gel Cleanup	Solid	3546	
720-52233-2 MS	EX6-S7-(4.25)	Silica Gel Cleanup	Solid	3546	
720-52233-2 MSD	EX6-S7-(4.25)	Silica Gel Cleanup	Solid	3546	
720-52233-3	EX6-S8-(4.25)	Silica Gel Cleanup	Solid	3546	
720-52233-4	EX6-S9-(4.25)	Silica Gel Cleanup	Solid	3546	
720-52233-5	EX6-S10-(4.25)	Silica Gel Cleanup	Solid	3546	
720-52233-6	EX6-S11-(4.25)	Silica Gel Cleanup	Solid	3546	
720-52233-7	EX6-S12-(4.25)	Silica Gel Cleanup	Solid	3546	
720-52233-8	EX6-S13-(4.25)	Silica Gel Cleanup	Solid	3546	
720-52233-9	CF5-S1-(2.5)	Silica Gel Cleanup	Solid	3546	
720-52233-10	CF5-S2-(2.5)	Silica Gel Cleanup	Solid	3546	
720-52233-11	CF5-S3-(2.5)	Silica Gel Cleanup	Solid	3546	
720-52233-12	CF5-S4-(2.5)	Silica Gel Cleanup	Solid	3546	
720-52233-13	CF5-B2-(5.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-144075/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-144075/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-144075/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 144087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-144075/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	144075
LCSD 720-144075/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	144075
MB 720-144075/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	144075

Analysis Batch: 144161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52233-12	CF5-S4-(2.5)	Silica Gel Cleanup	Solid	8015B	144075
720-52233-13	CF5-B2-(5.0)	Silica Gel Cleanup	Solid	8015B	144075

Analysis Batch: 144162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52233-9	CF5-S1-(2.5)	Silica Gel Cleanup	Solid	8015B	144075

Metals

Prep Batch: 143986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52233-1	EX6-S6-(4.25)	Total/NA	Solid	3050B	
720-52233-2	EX6-S7-(4.25)	Total/NA	Solid	3050B	
720-52233-2 MS	EX6-S7-(4.25)	Total/NA	Solid	3050B	
720-52233-2 MSD	EX6-S7-(4.25)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 143986 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52233-3	EX6-S8-(4.25)	Total/NA	Solid	3050B	
720-52233-4	EX6-S9-(4.25)	Total/NA	Solid	3050B	
720-52233-5	EX6-S10-(4.25)	Total/NA	Solid	3050B	
720-52233-6	EX6-S11-(4.25)	Total/NA	Solid	3050B	
720-52233-7	EX6-S12-(4.25)	Total/NA	Solid	3050B	
720-52233-8	EX6-S13-(4.25)	Total/NA	Solid	3050B	
LCS 720-143986/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-143986/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-143986/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 144035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52233-1	EX6-S6-(4.25)	Total/NA	Solid	7471A	
720-52233-1 MS	EX6-S6-(4.25)	Total/NA	Solid	7471A	
720-52233-1 MSD	EX6-S6-(4.25)	Total/NA	Solid	7471A	
720-52233-2	EX6-S7-(4.25)	Total/NA	Solid	7471A	
720-52233-3	EX6-S8-(4.25)	Total/NA	Solid	7471A	
720-52233-4	EX6-S9-(4.25)	Total/NA	Solid	7471A	
720-52233-5	EX6-S10-(4.25)	Total/NA	Solid	7471A	
720-52233-6	EX6-S11-(4.25)	Total/NA	Solid	7471A	
720-52233-7	EX6-S12-(4.25)	Total/NA	Solid	7471A	
720-52233-8	EX6-S13-(4.25)	Total/NA	Solid	7471A	
LCS 720-144035/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-144035/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-144035/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 144051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52233-2	EX6-S7-(4.25)	Total/NA	Solid	6010B	143986
720-52233-2 MS	EX6-S7-(4.25)	Total/NA	Solid	6010B	143986
720-52233-2 MSD	EX6-S7-(4.25)	Total/NA	Solid	6010B	143986
LCS 720-143986/2-A	Lab Control Sample	Total/NA	Solid	6010B	143986
LCSD 720-143986/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	143986
MB 720-143986/1-A	Method Blank	Total/NA	Solid	6010B	143986

Analysis Batch: 144064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52233-1	EX6-S6-(4.25)	Total/NA	Solid	6010B	143986
720-52233-3	EX6-S8-(4.25)	Total/NA	Solid	6010B	143986
720-52233-4	EX6-S9-(4.25)	Total/NA	Solid	6010B	143986
720-52233-5	EX6-S10-(4.25)	Total/NA	Solid	6010B	143986
720-52233-6	EX6-S11-(4.25)	Total/NA	Solid	6010B	143986
720-52233-7	EX6-S12-(4.25)	Total/NA	Solid	6010B	143986
720-52233-8	EX6-S13-(4.25)	Total/NA	Solid	6010B	143986

Analysis Batch: 144081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52233-1	EX6-S6-(4.25)	Total/NA	Solid	6010B	143986
720-52233-3	EX6-S8-(4.25)	Total/NA	Solid	6010B	143986
720-52233-4	EX6-S9-(4.25)	Total/NA	Solid	6010B	143986
720-52233-5	EX6-S10-(4.25)	Total/NA	Solid	6010B	143986

Metals (Continued)

Analysis Batch: 144081 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52233-6	EX6-S11-(4.25)	Total/NA	Solid	6010B	143986
720-52233-7	EX6-S12-(4.25)	Total/NA	Solid	6010B	143986
720-52233-8	EX6-S13-(4.25)	Total/NA	Solid	6010B	143986

Analysis Batch: 144098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52233-1	EX6-S6-(4.25)	Total/NA	Solid	7471A	144035
720-52233-1 MS	EX6-S6-(4.25)	Total/NA	Solid	7471A	144035
720-52233-1 MSD	EX6-S6-(4.25)	Total/NA	Solid	7471A	144035
720-52233-2	EX6-S7-(4.25)	Total/NA	Solid	7471A	144035
720-52233-3	EX6-S8-(4.25)	Total/NA	Solid	7471A	144035
720-52233-4	EX6-S9-(4.25)	Total/NA	Solid	7471A	144035
720-52233-5	EX6-S10-(4.25)	Total/NA	Solid	7471A	144035
720-52233-6	EX6-S11-(4.25)	Total/NA	Solid	7471A	144035
720-52233-7	EX6-S12-(4.25)	Total/NA	Solid	7471A	144035
720-52233-8	EX6-S13-(4.25)	Total/NA	Solid	7471A	144035
LCS 720-144035/2-A	Lab Control Sample	Total/NA	Solid	7471A	144035
LCSD 720-144035/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	144035
MB 720-144035/1-A	Method Blank	Total/NA	Solid	7471A	144035

Client Sample ID: EX6-S6-(4.25)

Lab Sample ID: 720-52233-1

Date Collected: 09/10/13 10:10

Matrix: Solid

Date Received: 09/10/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			144074	09/12/13 07:54	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		5	144092	09/12/13 21:15	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			144075	09/12/13 07:59	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	144072	09/12/13 21:57	DCH	TAL PLS
Total/NA	Prep	3050B			143986	09/10/13 21:28	ASB	TAL PLS
Total/NA	Analysis	6010B		4	144064	09/11/13 19:06	SLK	TAL PLS
Total/NA	Prep	3050B			143986	09/10/13 21:28	ASB	TAL PLS
Total/NA	Analysis	6010B		4	144081	09/11/13 22:34	SLK	TAL PLS
Total/NA	Prep	7471A			144035	09/11/13 14:52	JCR	TAL PLS
Total/NA	Analysis	7471A		1	144098	09/12/13 10:50	EFH	TAL PLS

Client Sample ID: EX6-S7-(4.25)

Lab Sample ID: 720-52233-2

Date Collected: 09/10/13 10:15

Matrix: Solid

Date Received: 09/10/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			144074	09/12/13 07:54	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		10	144092	09/12/13 21:38	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			144075	09/12/13 07:59	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	144072	09/12/13 22:21	DCH	TAL PLS
Total/NA	Prep	3050B			143986	09/10/13 21:28	ASB	TAL PLS
Total/NA	Analysis	6010B		4	144051	09/11/13 17:47	CAM	TAL PLS
Total/NA	Prep	7471A			144035	09/11/13 14:52	JCR	TAL PLS
Total/NA	Analysis	7471A		1	144098	09/12/13 10:52	EFH	TAL PLS

Client Sample ID: EX6-S8-(4.25)

Lab Sample ID: 720-52233-3

Date Collected: 09/10/13 10:25

Matrix: Solid

Date Received: 09/10/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			144074	09/12/13 07:54	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		20	144092	09/12/13 22:01	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			144075	09/12/13 07:59	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	144071	09/12/13 22:45	DCH	TAL PLS
Total/NA	Prep	3050B			143986	09/10/13 21:28	ASB	TAL PLS
Total/NA	Analysis	6010B		4	144064	09/11/13 19:11	SLK	TAL PLS
Total/NA	Prep	3050B			143986	09/10/13 21:28	ASB	TAL PLS
Total/NA	Analysis	6010B		4	144081	09/11/13 22:38	SLK	TAL PLS
Total/NA	Prep	7471A			144035	09/11/13 14:52	JCR	TAL PLS
Total/NA	Analysis	7471A		1	144098	09/12/13 10:55	EFH	TAL PLS

Client Sample ID: EX6-S9-(4.25)

Lab Sample ID: 720-52233-4

Date Collected: 09/10/13 10:30

Matrix: Solid

Date Received: 09/10/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			144074	09/12/13 07:54	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		5	144092	09/12/13 22:24	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			144075	09/12/13 07:59	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	144072	09/12/13 20:19	DCH	TAL PLS
Total/NA	Prep	3050B			143986	09/10/13 21:28	ASB	TAL PLS
Total/NA	Analysis	6010B		4	144064	09/11/13 19:15	SLK	TAL PLS
Total/NA	Prep	3050B			143986	09/10/13 21:28	ASB	TAL PLS
Total/NA	Analysis	6010B		4	144081	09/11/13 22:42	SLK	TAL PLS
Total/NA	Prep	7471A			144035	09/11/13 14:52	JCR	TAL PLS
Total/NA	Analysis	7471A		1	144098	09/12/13 10:57	EFH	TAL PLS

Client Sample ID: EX6-S10-(4.25)

Lab Sample ID: 720-52233-5

Date Collected: 09/10/13 10:40

Matrix: Solid

Date Received: 09/10/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			144074	09/12/13 07:54	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		5	144092	09/12/13 22:47	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			144075	09/12/13 07:59	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	144071	09/12/13 21:08	DCH	TAL PLS
Total/NA	Prep	3050B			143986	09/10/13 21:28	ASB	TAL PLS
Total/NA	Analysis	6010B		4	144064	09/11/13 19:19	SLK	TAL PLS
Total/NA	Prep	3050B			143986	09/10/13 21:28	ASB	TAL PLS
Total/NA	Analysis	6010B		4	144081	09/11/13 22:47	SLK	TAL PLS
Total/NA	Prep	7471A			144035	09/11/13 14:52	JCR	TAL PLS
Total/NA	Analysis	7471A		1	144098	09/12/13 11:00	EFH	TAL PLS

Client Sample ID: EX6-S11-(4.25)

Lab Sample ID: 720-52233-6

Date Collected: 09/10/13 10:45

Matrix: Solid

Date Received: 09/10/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			144074	09/12/13 07:54	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		2	144092	09/12/13 23:10	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			144075	09/12/13 07:59	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	144071	09/12/13 20:43	DCH	TAL PLS
Total/NA	Prep	3050B			143986	09/10/13 21:28	ASB	TAL PLS
Total/NA	Analysis	6010B		4	144064	09/11/13 19:23	SLK	TAL PLS
Total/NA	Prep	3050B			143986	09/10/13 21:28	ASB	TAL PLS
Total/NA	Analysis	6010B		4	144081	09/11/13 22:51	SLK	TAL PLS
Total/NA	Prep	7471A			144035	09/11/13 14:52	JCR	TAL PLS
Total/NA	Analysis	7471A		1	144098	09/12/13 11:07	EFH	TAL PLS

Client Sample ID: EX6-S12-(4.25)

Lab Sample ID: 720-52233-7

Date Collected: 09/10/13 10:50

Matrix: Solid

Date Received: 09/10/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			144074	09/12/13 07:54	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		2	144092	09/12/13 19:19	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			144075	09/12/13 07:59	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	144071	09/12/13 21:32	DCH	TAL PLS
Total/NA	Prep	3050B			143986	09/10/13 21:28	ASB	TAL PLS
Total/NA	Analysis	6010B		4	144064	09/11/13 19:27	SLK	TAL PLS
Total/NA	Prep	3050B			143986	09/10/13 21:28	ASB	TAL PLS
Total/NA	Analysis	6010B		4	144081	09/11/13 22:55	SLK	TAL PLS
Total/NA	Prep	7471A			144035	09/11/13 14:52	JCR	TAL PLS
Total/NA	Analysis	7471A		1	144098	09/12/13 11:09	EFH	TAL PLS

Client Sample ID: EX6-S13-(4.25)

Lab Sample ID: 720-52233-8

Date Collected: 09/10/13 10:55

Matrix: Solid

Date Received: 09/10/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			144074	09/12/13 07:54	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		5	144092	09/12/13 19:42	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			144075	09/12/13 07:59	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		2	144071	09/12/13 23:11	DCH	TAL PLS
Total/NA	Prep	3050B			143986	09/10/13 21:28	ASB	TAL PLS
Total/NA	Analysis	6010B		4	144064	09/11/13 19:32	SLK	TAL PLS
Total/NA	Prep	3050B			143986	09/10/13 21:28	ASB	TAL PLS
Total/NA	Analysis	6010B		4	144081	09/11/13 23:00	SLK	TAL PLS
Total/NA	Prep	7471A			144035	09/11/13 14:52	JCR	TAL PLS
Total/NA	Analysis	7471A		1	144098	09/12/13 11:12	EFH	TAL PLS

Client Sample ID: CF5-S1-(2.5)

Lab Sample ID: 720-52233-9

Date Collected: 09/10/13 13:20

Matrix: Solid

Date Received: 09/10/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144075	09/12/13 07:59	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		50	144162	09/13/13 10:12	JL	TAL PLS

Client Sample ID: CF5-S2-(2.5)

Lab Sample ID: 720-52233-10

Date Collected: 09/10/13 13:25

Matrix: Solid

Date Received: 09/10/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144075	09/12/13 07:59	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	144071	09/12/13 19:55	DCH	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Client Sample ID: CF5-S3-(2.5)

Lab Sample ID: 720-52233-11

Date Collected: 09/10/13 13:30

Matrix: Solid

Date Received: 09/10/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144075	09/12/13 07:59	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	144071	09/12/13 20:19	DCH	TAL PLS

Client Sample ID: CF5-S4-(2.5)

Lab Sample ID: 720-52233-12

Date Collected: 09/10/13 13:35

Matrix: Solid

Date Received: 09/10/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144075	09/12/13 07:59	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		50	144161	09/13/13 09:48	JL	TAL PLS

Client Sample ID: CF5-B2-(5.0)

Lab Sample ID: 720-52233-13

Date Collected: 09/10/13 13:40

Matrix: Solid

Date Received: 09/10/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144075	09/12/13 07:59	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		50	144161	09/13/13 10:12	JL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52233-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-52233-1	EX6-S6-(4.25)	Solid	09/10/13 10:10	09/10/13 16:20
720-52233-2	EX6-S7-(4.25)	Solid	09/10/13 10:15	09/10/13 16:20
720-52233-3	EX6-S8-(4.25)	Solid	09/10/13 10:25	09/10/13 16:20
720-52233-4	EX6-S9-(4.25)	Solid	09/10/13 10:30	09/10/13 16:20
720-52233-5	EX6-S10-(4.25)	Solid	09/10/13 10:40	09/10/13 16:20
720-52233-6	EX6-S11-(4.25)	Solid	09/10/13 10:45	09/10/13 16:20
720-52233-7	EX6-S12-(4.25)	Solid	09/10/13 10:50	09/10/13 16:20
720-52233-8	EX6-S13-(4.25)	Solid	09/10/13 10:55	09/10/13 16:20
720-52233-9	CF5-S1-(2.5)	Solid	09/10/13 13:20	09/10/13 16:20
720-52233-10	CF5-S2-(2.5)	Solid	09/10/13 13:25	09/10/13 16:20
720-52233-11	CF5-S3-(2.5)	Solid	09/10/13 13:30	09/10/13 16:20
720-52233-12	CF5-S4-(2.5)	Solid	09/10/13 13:35	09/10/13 16:20
720-52233-13	CF5-B2-(5.0)	Solid	09/10/13 13:40	09/10/13 16:20

720-52233

148544

HALEY & ALDRICH
Haley & Aldrich, Inc.
2033 N. Main St, Ste 309
Walnut Creek, CA 94596-7260
Phone (925) 949-1012
Fax (925) 979-1456

CHAIN OF CUSTODY RECORD

H&A FILE NO.	39792-	LABORATORY	Test America, Pleasanton, Ca	DELIVERY DATE	9/10/13 (Tu.)
PROJECT NAME	Former Hanson Aggregate Facility	ADDRESS	1200 Quarry Lane, 94566	TURNAROUND TIME	~~24 hours~~ 72 hour
H&A CONTACT	J. Sebik, R Brownsberger, K. Guthrie	CONTACT	Dimple Sharma	PROJECT MANAGER	K. Guthrie, J Schwartz

Sample No.	Date	Time	Depth	Type	TPH-d/mo by 8015B with silica gel cleanup	Naphthalene ONLY by 8270C SIM	Proctor Test (Compaction Curve)	CAM17 metals	TPH-g	pH by 9040	VOCs	SVOCs	Asbestos by CARB 435	EPA 8270	Metals	Number of Containers
EX6-S6-(4.25)*	9/10/13	1010	4.25	Soil	X									X	X	2
EX6-S7-(4.25)*	9/10/13	1015	4.25	Soil	X									X	X	2
EX6-S8-(4.25)*	9/10/13	1025	4.25	Soil	X									X	X	2
EX6-S9-(4.25)*	9/10/13	1030	4.25	Soil	X									X	X	2
EX6-S10-(4.25)*	9/10/13	1040	4.25	Soil	X									X	X	2
EX6-S11-(4.25)*	9/10/13	1045	4.25	Soil	X									X	X	2
EX6-S12-(4.25)*	9/10/13	1050	4.25	Soil	X									X	X	2
EX6-S13-(4.25)*	9/10/13	1055	4.25	Soil	X									X	X	2
CF5-S1-(2.5)	9/10/13	1320	2.5	Soil	X											1
CF5-S2-(2.5)	9/10/13	1325	2.5	Soil	X											1

Comments (special instructions, precautions, additional method numbers, etc.)

*please place 2nd Sample jar on HOLD pending request for further analysis.

RUSH

Sampled and Relinquished by

Sign [signature]
Print Brendan J. Mulholland
Firm Haley & Aldrich (Alb.)
Date 9/10/13 Time 1620

Received by

Sign [signature]
Print Justin Gonzales
Firm TAP
Date 9/10/13 Time 1620

Relinquished by

Sign
Print
Firm
Date Time

Received by

Sign
Print
Firm
Date Time

720-52233 Chain of Custody

LIQUID

	VOA Vial	Amber Glass	Plastic Bottle	Preservative	Volume

SOLID

	VOA Vial	Amber Glass	Clear Glass	Preservative	Volume
X			X	A	8oz
A			X	A	8oz

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Water/NaHSO4 (circle)

Sampling Comments

Archive all samples after analysis.

1.8°C

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate. Laboratory should (specify if applicable) _____ analyz

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

September 2012

Form 3003

9/17/2013

720-52233

1485544

HALEY & ALDRICH
Haley & Aldrich, Inc.
2033 N. Main St, Ste 309
Walnut Creek, CA 94596-7260
Phone (925) 949-1012
Fax (925) 979-1456

CHAIN OF CUSTODY RECORD

H&A FILE NO.	39792-	LABORATORY	Test America, Pleasanton, Ca
PROJECT NAME	Former Hanson Aggregate Facility	ADDRESS	1200 Quarry Lane, 94566
H&A CONTACT	J. Sebik, R Brownsberger, K. Guthrie	CONTACT	Dimple Sharma

DELIVERY DATE: 9/10/13 (Tu.)
TURNAROUND TIME: ~~24 hour~~ 72 hour
PROJECT MANAGER: K. Guthrie, J Schwartz

Sample No.	Date	Time	Depth	Type	TPH-d/mo by 8015B with silica gel cleanup	Naphthalene ONLY by 8270C SIM	Proctor Test (Compaction Curve)	CAM17 metals	TPH-g	pH by 9040	VOCs	SVOCs	Asbestos by CARB 435			Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
CF5-S3-(7.5)	9/10/13	1330	2.5	Soil	X											1	
CF5-S4-(2.5)	9/10/13	1335	2.5	Soil	X											1	
CF5-B2-(5.0)	9/10/13	1340	5.0	Soil	X											1	

Analysis Requested

RUSH

Sampled and Relinquished by	Received by
Sign [signature]	Sign [signature]
Print Brendan S. Mulholland	Print Justin Gonzales
Firm Haley & Aldrich (AlBa)	Firm TAP
Date 9/10/13 Time 1620	Date 9/10/13 Time 1620
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID	
	VOA Vial
	Amber Glass
	Plastic Bottle
	Preservative
	Volume

SOLID	
	VOA Vial
	Amber Glass
X	Clear Glass
A	Preservative
8oz	Volume

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Water/NaHSO4 (circle)

Sampling Comments

Archive all samples after analysis.

Evidence samples were tampered with? YES NO

If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate. Laboratory should (specify if applicable) _____ analyz

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

September 2012

Form 3003

9/17/2013

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-52233-1

Login Number: 52233

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-52314-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
9/19/2013 10:12:21 AM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-52314-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-52314-1

Comments
No additional comments.

Receipt
The samples were received on 9/13/2013 3:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 10.5º C.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: EX3-S4(4.0) (720-52314-8), EX4-S10-(3.0) (720-52314-2), EX4-S13-(4.0) (720-52314-5), EX4-B5-(7.0) (720-52314-10), EX4-S11-(4.0) (720-52314-3), EX4-S12-(4.0) (720-52314-4), EX4-S15-(4.0) (720-52314-11), (720-52314-10 MS), (720-52314-10 MSD).

Method 8015B: The method blank for preparation batch 144400 contained C10-C28, above the reporting limit (RL). The associated sample(s) contained detects for this analyte at concentrations greater than 10X the value found in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for batch 144400 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-S9-(3.0) — Lab Sample ID: 720-52314-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	36		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	99		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S10-(3.0) — Lab Sample ID: 720-52314-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	870		9.9		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1900		500		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S11-(4.0) — Lab Sample ID: 720-52314-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1600		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	2400		990		mg/Kg	20		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S12-(4.0) — Lab Sample ID: 720-52314-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1400		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	2100		990		mg/Kg	20		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S13-(4.0) — Lab Sample ID: 720-52314-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	250		10		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	860		500		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S14-(4.0) — Lab Sample ID: 720-52314-6

No Detections.

Client Sample ID: EX4-B4(8.0) — Lab Sample ID: 720-52314-7

No Detections.

Client Sample ID: EX3-S4(4.0) — Lab Sample ID: 720-52314-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2700		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	3700		1000		mg/Kg	20		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX9-S6-(4.0) — Lab Sample ID: 720-52314-9

No Detections.

Client Sample ID: EX4-B5-(7.0) — Lab Sample ID: 720-52314-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1500	B	9.9		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1500		500		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S15-(4.0) — Lab Sample ID: 720-52314-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1400	B	20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1600		990		mg/Kg	20		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-S9-(3.0)
Date Collected: 09/13/13 10:30
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	36		1.0		mg/Kg		09/17/13 11:59	09/18/13 01:47	1
Motor Oil Range Organics [C24-C36]	99		50		mg/Kg		09/17/13 11:59	09/18/13 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.1*		*0 - 1*	*09/17/13 11:59*	*09/18/13 01:47*	*1*
p-Terphenyl	*70*		*38 - 148*	*09/17/13 11:59*	*09/18/13 01:47*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-S10-(3.0)
Date Collected: 09/13/13 10:40
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	870		9.9		mg/Kg		09/17/13 11:59	09/18/13 00:19	10
Motor Oil Range Organics [C24-C36]	1900		500		mg/Kg		09/17/13 11:59	09/18/13 00:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/17/13 11:59*	*09/18/13 00:19*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*09/17/13 11:59*	*09/18/13 00:19*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-S11-(4.0)
Date Collected: 09/13/13 10:45
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1600		20		mg/Kg		09/17/13 11:59	09/18/13 10:19	20
Motor Oil Range Organics [C24-C36]	2400		990		mg/Kg		09/17/13 11:59	09/18/13 10:19	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/17/13 11:59*	*09/18/13 10:19*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*09/17/13 11:59*	*09/18/13 10:19*	*20*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-S12-(4.0)
Date Collected: 09/13/13 10:55
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1400		20		mg/Kg		09/17/13 11:59	09/18/13 10:48	20
Motor Oil Range Organics [C24-C36]	2100		990		mg/Kg		09/17/13 11:59	09/18/13 10:48	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/17/13 11:59*	*09/18/13 10:48*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*09/17/13 11:59*	*09/18/13 10:48*	*20*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-S13-(4.0)
Date Collected: 09/13/13 11:00
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	250		10		mg/Kg		09/17/13 11:59	09/18/13 01:47	10
Motor Oil Range Organics [C24-C36]	860		500		mg/Kg		09/17/13 11:59	09/18/13 01:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/17/13 11:59*	*09/18/13 01:47*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*09/17/13 11:59*	*09/18/13 01:47*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-S14-(4.0)
Date Collected: 09/13/13 11:15
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-6
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		09/17/13 11:59	09/18/13 03:33	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		09/17/13 11:59	09/18/13 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*09/17/13 11:59*	*09/18/13 03:33*	*1*
p-Terphenyl	*111*		*38 - 148*	*09/17/13 11:59*	*09/18/13 03:33*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-B4(8.0)
Date Collected: 09/13/13 10:50
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-7
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		09/17/13 11:59	09/18/13 03:57	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		09/17/13 11:59	09/18/13 03:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.004*		*0 - 1*	*09/17/13 11:59*	*09/18/13 03:57*	*1*
p-Terphenyl	*110*		*38 - 148*	*09/17/13 11:59*	*09/18/13 03:57*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX3-S4(4.0)
Date Collected: 09/13/13 11:05
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-8
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2700		20		mg/Kg		09/17/13 11:59	09/18/13 02:16	20
Motor Oil Range Organics [C24-C36]	3700		1000		mg/Kg		09/17/13 11:59	09/18/13 02:16	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/17/13 11:59*	*09/18/13 02:16*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*09/17/13 11:59*	*09/18/13 02:16*	*20*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX9-S6-(4.0)
Date Collected: 09/13/13 12:45
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-9
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.0099		mg/Kg		09/17/13 11:59	09/18/13 04:21	1
Motor Oil Range Organics [C24-C36]	ND		0.50		mg/Kg		09/17/13 11:59	09/18/13 04:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.004*		*0 - 1*	*09/17/13 11:59*	*09/18/13 04:21*	*1*
p-Terphenyl	*109*		*38 - 148*	*09/17/13 11:59*	*09/18/13 04:21*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-B5-(7.0)
Date Collected: 09/12/13 13:30
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-10
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1500	B	9.9		mg/Kg		09/17/13 13:00	09/18/13 11:47	10
Motor Oil Range Organics [C24-C36]	1500		500		mg/Kg		09/17/13 13:00	09/18/13 11:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/17/13 13:00*	*09/18/13 11:47*	*10*
p-Terphenyl	*0*	*D X*	*38 - 148*	*09/17/13 13:00*	*09/18/13 11:47*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-S15-(4.0)
Date Collected: 09/12/13 14:05
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-11
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1400	B	20		mg/Kg		09/17/13 13:00	09/18/13 11:17	20
Motor Oil Range Organics [C24-C36]	1600		990		mg/Kg		09/17/13 13:00	09/18/13 11:17	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/17/13 13:00*	*09/18/13 11:17*	*20*
p-Terphenyl	*0*	*D X*	*38 - 148*	*09/17/13 13:00*	*09/18/13 11:17*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-144392/1-A
Matrix: Solid
Analysis Batch: 144364

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 144392

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		09/17/13 11:59	09/18/13 03:14	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		09/17/13 11:59	09/18/13 03:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/17/13 11:59*	*09/18/13 03:14*	*1*
p-Terphenyl	*100*		*38 - 148*	*09/17/13 11:59*	*09/18/13 03:14*	*1*

Lab Sample ID: LCS 720-144392/2-A
Matrix: Solid
Analysis Batch: 144364

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 144392

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.3	66.9		mg/Kg		80	36 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*99*		*38 - 148*

Lab Sample ID: LCSD 720-144392/3-A
Matrix: Solid
Analysis Batch: 144364

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 144392

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	83.3	64.7		mg/Kg		78	36 - 112	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*88*		*38 - 148*

Lab Sample ID: MB 720-144400/1-A
Matrix: Solid
Analysis Batch: 144362

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 144400

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.52		0.99		mg/Kg		09/17/13 13:00	09/18/13 01:56	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		09/17/13 13:00	09/18/13 01:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.004*		*0 - 1*	*09/17/13 13:00*	*09/18/13 01:56*	*1*
p-Terphenyl	*120*		*38 - 148*	*09/17/13 13:00*	*09/18/13 01:56*	*1*

Lab Sample ID: LCS 720-144400/2-A
Matrix: Solid
Analysis Batch: 144362

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 144400

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.0	68.8		mg/Kg		83	36 - 112

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-144400/2-A
Matrix: Solid
Analysis Batch: 144362

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 144400

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*111*		*38 - 148*

Lab Sample ID: LCSD 720-144400/3-A
Matrix: Solid
Analysis Batch: 144362

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 144400

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			83.0	71.2		mg/Kg		86	36 - 112	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	*109*		*38 - 148*

Lab Sample ID: 720-52314-10 MS
Matrix: Solid
Analysis Batch: 144362

Client Sample ID: EX4-B5-(7.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 144400

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	1500	B	82.8	1040	4	mg/Kg		-553	50 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	*0*	*X D*	*38 - 148*

Lab Sample ID: 720-52314-10 MSD
Matrix: Solid
Analysis Batch: 144362

Client Sample ID: EX4-B5-(7.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 144400

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	1500	B	82.4	1520	4 F	mg/Kg		17	50 - 150	37	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	*0*	*X D*	*38 - 148*

GC Semi VOA

Analysis Batch: 144362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-6	EX4-S14-(4.0)	Silica Gel Cleanup	Solid	8015B	144392
720-52314-7	EX4-B4(8.0)	Silica Gel Cleanup	Solid	8015B	144392
720-52314-9	EX9-S6-(4.0)	Silica Gel Cleanup	Solid	8015B	144392
720-52314-10 MS	EX4-B5-(7.0)	Silica Gel Cleanup	Solid	8015B	144400
720-52314-10 MSD	EX4-B5-(7.0)	Silica Gel Cleanup	Solid	8015B	144400
LCS 720-144400/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	144400
LCSD 720-144400/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	144400
MB 720-144400/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	144400

Analysis Batch: 144364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-1	EX4-S9-(3.0)	Silica Gel Cleanup	Solid	8015B	144392
LCS 720-144392/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	144392
LCSD 720-144392/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	144392
MB 720-144392/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	144392

Analysis Batch: 144365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-2	EX4-S10-(3.0)	Silica Gel Cleanup	Solid	8015B	144392
720-52314-5	EX4-S13-(4.0)	Silica Gel Cleanup	Solid	8015B	144392
720-52314-8	EX3-S4(4.0)	Silica Gel Cleanup	Solid	8015B	144392

Prep Batch: 144392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-1	EX4-S9-(3.0)	Silica Gel Cleanup	Solid	3546	
720-52314-2	EX4-S10-(3.0)	Silica Gel Cleanup	Solid	3546	
720-52314-3	EX4-S11-(4.0)	Silica Gel Cleanup	Solid	3546	
720-52314-4	EX4-S12-(4.0)	Silica Gel Cleanup	Solid	3546	
720-52314-5	EX4-S13-(4.0)	Silica Gel Cleanup	Solid	3546	
720-52314-6	EX4-S14-(4.0)	Silica Gel Cleanup	Solid	3546	
720-52314-7	EX4-B4(8.0)	Silica Gel Cleanup	Solid	3546	
720-52314-8	EX3-S4(4.0)	Silica Gel Cleanup	Solid	3546	
720-52314-9	EX9-S6-(4.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-144392/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-144392/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-144392/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Prep Batch: 144400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-10	EX4-B5-(7.0)	Silica Gel Cleanup	Solid	3546	
720-52314-10 MS	EX4-B5-(7.0)	Silica Gel Cleanup	Solid	3546	
720-52314-10 MSD	EX4-B5-(7.0)	Silica Gel Cleanup	Solid	3546	
720-52314-11	EX4-S15-(4.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-144400/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-144400/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-144400/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 144452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-3	EX4-S11-(4.0)	Silica Gel Cleanup	Solid	8015B	144392
720-52314-4	EX4-S12-(4.0)	Silica Gel Cleanup	Solid	8015B	144392

GC Semi VOA (Continued)

Analysis Batch: 144452 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-10	EX4-B5-(7.0)	Silica Gel Cleanup	Solid	8015B	144400
720-52314-11	EX4-S15-(4.0)	Silica Gel Cleanup	Solid	8015B	144400

Client Sample ID: EX4-S9-(3.0) — **Lab Sample ID: 720-52314-1**
Date Collected: 09/13/13 10:30 — **Matrix: Solid**
Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144392	09/17/13 11:59	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	144364	09/18/13 01:47	JL	TAL PLS

Client Sample ID: EX4-S10-(3.0) — **Lab Sample ID: 720-52314-2**
Date Collected: 09/13/13 10:40 — **Matrix: Solid**
Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144392	09/17/13 11:59	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	144365	09/18/13 00:19	DCH	TAL PLS

Client Sample ID: EX4-S11-(4.0) — **Lab Sample ID: 720-52314-3**
Date Collected: 09/13/13 10:45 — **Matrix: Solid**
Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144392	09/17/13 11:59	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	144452	09/18/13 10:19	JL	TAL PLS

Client Sample ID: EX4-S12-(4.0) — **Lab Sample ID: 720-52314-4**
Date Collected: 09/13/13 10:55 — **Matrix: Solid**
Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144392	09/17/13 11:59	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	144452	09/18/13 10:48	JL	TAL PLS

Client Sample ID: EX4-S13-(4.0) — **Lab Sample ID: 720-52314-5**
Date Collected: 09/13/13 11:00 — **Matrix: Solid**
Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144392	09/17/13 11:59	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	144365	09/18/13 01:47	DCH	TAL PLS

Client Sample ID: EX4-S14-(4.0) — **Lab Sample ID: 720-52314-6**
Date Collected: 09/13/13 11:15 — **Matrix: Solid**
Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144392	09/17/13 11:59	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	144362	09/18/13 03:33	DCH	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-B4(8.0)

Lab Sample ID: 720-52314-7

Date Collected: 09/13/13 10:50

Matrix: Solid

Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144392	09/17/13 11:59	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	144362	09/18/13 03:57	DCH	TAL PLS

Client Sample ID: EX3-S4(4.0)

Lab Sample ID: 720-52314-8

Date Collected: 09/13/13 11:05

Matrix: Solid

Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144392	09/17/13 11:59	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	144365	09/18/13 02:16	DCH	TAL PLS

Client Sample ID: EX9-S6-(4.0)

Lab Sample ID: 720-52314-9

Date Collected: 09/13/13 12:45

Matrix: Solid

Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144392	09/17/13 11:59	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	144362	09/18/13 04:21	DCH	TAL PLS

Client Sample ID: EX4-B5-(7.0)

Lab Sample ID: 720-52314-10

Date Collected: 09/12/13 13:30

Matrix: Solid

Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144400	09/17/13 13:00	DBT	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	144452	09/18/13 11:47	JL	TAL PLS

Client Sample ID: EX4-S15-(4.0)

Lab Sample ID: 720-52314-11

Date Collected: 09/12/13 14:05

Matrix: Solid

Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144400	09/17/13 13:00	DBT	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	144452	09/18/13 11:17	JL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-52314-1	EX4-S9-(3.0)	Solid	09/13/13 10:30	09/13/13 15:45
720-52314-2	EX4-S10-(3.0)	Solid	09/13/13 10:40	09/13/13 15:45
720-52314-3	EX4-S11-(4.0)	Solid	09/13/13 10:45	09/13/13 15:45
720-52314-4	EX4-S12-(4.0)	Solid	09/13/13 10:55	09/13/13 15:45
720-52314-5	EX4-S13-(4.0)	Solid	09/13/13 11:00	09/13/13 15:45
720-52314-6	EX4-S14-(4.0)	Solid	09/13/13 11:15	09/13/13 15:45
720-52314-7	EX4-B4(8.0)	Solid	09/13/13 10:50	09/13/13 15:45
720-52314-8	EX3-S4(4.0)	Solid	09/13/13 11:05	09/13/13 15:45
720-52314-9	EX9-S6-(4.0)	Solid	09/13/13 12:45	09/13/13 15:45
720-52314-10	EX4-B5-(7.0)	Solid	09/12/13 13:30	09/13/13 15:45
720-52314-11	EX4-S15-(4.0)	Solid	09/12/13 14:05	09/13/13 15:45

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 1486022

720-52314

Date 9/13/2013 Page 1 of 2

9/19/2013

Report To

Attn: K. Guthrie, J. Schwartz
Company: Haley & Aldrich Walnut Creek 94596
Address: 2033 North Main St., Suite 309
Email: Kguthrie@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: B. Mullholland
Attn: K. Guthrie
Phone: 925-949-1011

Analysis Request

Sample ID	Date	Time	Mat. ID	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
EX4-S9-(3.0)	9/13/13	1030	Soil	unp.				X																		1
EX4-S10-(3.0)	9/13/13	1040	Soil	unp.				X																		1
EX4-S11-(4.0)	9/13/13	1045	Soil	unp.				X																		1
EX4-S12-(4.0)	9/13/13	1055	Soil	unp.				X																		1
EX4-S13-(4.0)	9/13/13	1100	Soil	unp.				X																		1
EX4-S14-(4.0)	9/13/13	1115	Soil	unp.				X																		1
EX4-B4 (8.0)	9/13/13	1050	Soil	unp.				X																		1
EX3-S4 (4.0)	9/13/13	1105	Soil	unp.				X																		1
EX9-S6-(4.0)	9/13/13	1245	Soil	unp.				X																		1
EX4-B5-(7.0)	9/12/13	1330	Soil	unp.				X																		1

RUSH

Project Info

Project Name/ #:
PO#:

Sample Receipt

of Containers:
Head Space:
Temp: 10.5 °C

Credit Card Y/N: If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | 2 Day | 1 Day | Other.

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments ☐ Global ID

See Terms and Conditions on reverse

	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature	[signature]		
Time	1545		
Printed Name	Brenden J. Mullholland		
Date	9/13/13		
Company	Haley & Aldrich		

	1) Received by:	2) Received by:	3) Received by:
Signature	[signature]		
Time	1545		
Printed Name	Justinn Gonzales		
Date	9/13/13		
Company	TAP		

720-52314 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-52314

Reference #: 148622

Date 9/13/2013 Page 2 of 2

9/19/2013

Report To

Attn: K. Guthrie, J. Schwartz
Company: Haley & Aldrich
Address: 2033 North Main St., Suite 309
Email: Kguthrie@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: B. Mullholland
Attn: K. Guthrie
Phone: 925.949.1017

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C (ump.) ☒ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (W/HNO3) (EPA 6010/7470/7471)	Metals ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other. ___	Metals: ☐ 6020 ☐ 200 8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
5x4.5ft.(4.0)	9/12/13	1405	Soil	ump.				X																	1
EB91313 ⊛	9/13/13	1145	Water	ump. HNO3				X		X			X												5

RUSH

Project Info

Project Name/ #:
PO#:
Credit Card Y/N:

Sample Receipt

of Containers:
Head Space:
Temp. 10.5°C

If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | 2 Day | 1 Day ⊛ Other. 5-Day on EB91313

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments. ☐ Global ID ___

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by.	3) Relinquished by	
Signature: 1545	Signature / Time	Signature / Time	
Printed Name: Brenda J. Mullholland 9/13/13	Printed Name / Date	Printed Name / Date	
Company: Haley & Aldrich	Company	Company	
1) Received by:	2) Received by	3) Received by	
Signature: 1545	Signature / Time	Signature / Time	
Printed Name: Justinn Gonzales 9/13/13	Printed Name / Date	Printed Name / Date	
Company: TAP	Company	Company	

Rev 10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-52314-1

Login Number: 52314

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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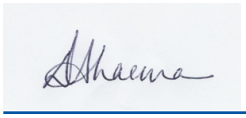
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-52314-1
Client Project/Site: Hansen
Revision: 1

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie



Authorized for release by:
11/21/2013 5:54:24 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-52314-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-52314-1

Comments
No additional comments.

Receipt
The samples were received on 9/13/2013 3:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 10.5º C.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: EX3-S4(4.0) (720-52314-8), EX4-S10-(3.0) (720-52314-2), EX4-S13-(4.0) (720-52314-5), EX4-B5-(7.0) (720-52314-10), EX4-S11-(4.0) (720-52314-3), EX4-S12-(4.0) (720-52314-4), EX4-S15-(4.0) (720-52314-11), (720-52314-10 MS), (720-52314-10 MSD).

Method 8015B: The method blank for preparation batch 144400 contained C10-C28, above the reporting limit (RL). The associated sample(s) contained detects for this analyte at concentrations greater than 10X the value found in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for batch 144400 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-S9-(3.0) — Lab Sample ID: 720-52314-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	36		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	99		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S10-(3.0) — Lab Sample ID: 720-52314-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	870		9.9		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1900		500		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S11-(4.0) — Lab Sample ID: 720-52314-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1600		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	2400		990		mg/Kg	20		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S12-(4.0) — Lab Sample ID: 720-52314-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1400		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	2100		990		mg/Kg	20		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S13-(4.0) — Lab Sample ID: 720-52314-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	250		10		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	860		500		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S14-(4.0) — Lab Sample ID: 720-52314-6

No Detections.

Client Sample ID: EX3-S5(4.0) — Lab Sample ID: 720-52314-7

No Detections.

Client Sample ID: EX3-S4(4.0) — Lab Sample ID: 720-52314-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2700		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	3700		1000		mg/Kg	20		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX9-S6-(4.0) — Lab Sample ID: 720-52314-9

No Detections.

Client Sample ID: EX4-B5-(7.0) — Lab Sample ID: 720-52314-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1500	B	9.9		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1500		500		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: EX4-S15-(4.0) — Lab Sample ID: 720-52314-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1400	B	20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1600		990		mg/Kg	20		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-S9-(3.0)
Date Collected: 09/13/13 10:30
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	36		1.0		mg/Kg		09/17/13 11:59	09/18/13 01:47	1
Motor Oil Range Organics [C24-C36]	99		50		mg/Kg		09/17/13 11:59	09/18/13 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.1*		*0 - 1*	*09/17/13 11:59*	*09/18/13 01:47*	*1*
p-Terphenyl	*70*		*38 - 148*	*09/17/13 11:59*	*09/18/13 01:47*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-S10-(3.0)
Date Collected: 09/13/13 10:40
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	870		9.9		mg/Kg		09/17/13 11:59	09/18/13 00:19	10
Motor Oil Range Organics [C24-C36]	1900		500		mg/Kg		09/17/13 11:59	09/18/13 00:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/17/13 11:59*	*09/18/13 00:19*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*09/17/13 11:59*	*09/18/13 00:19*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-S11-(4.0)
Date Collected: 09/13/13 10:45
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1600		20		mg/Kg		09/17/13 11:59	09/18/13 10:19	20
Motor Oil Range Organics [C24-C36]	2400		990		mg/Kg		09/17/13 11:59	09/18/13 10:19	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/17/13 11:59*	*09/18/13 10:19*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*09/17/13 11:59*	*09/18/13 10:19*	*20*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-S12-(4.0)
Date Collected: 09/13/13 10:55
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1400		20		mg/Kg		09/17/13 11:59	09/18/13 10:48	20
Motor Oil Range Organics [C24-C36]	2100		990		mg/Kg		09/17/13 11:59	09/18/13 10:48	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/17/13 11:59*	*09/18/13 10:48*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*09/17/13 11:59*	*09/18/13 10:48*	*20*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-S13-(4.0)
Date Collected: 09/13/13 11:00
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	250		10		mg/Kg		09/17/13 11:59	09/18/13 01:47	10
Motor Oil Range Organics [C24-C36]	860		500		mg/Kg		09/17/13 11:59	09/18/13 01:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/17/13 11:59*	*09/18/13 01:47*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*09/17/13 11:59*	*09/18/13 01:47*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-S14-(4.0)
Date Collected: 09/13/13 11:15
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-6
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		09/17/13 11:59	09/18/13 03:33	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		09/17/13 11:59	09/18/13 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*09/17/13 11:59*	*09/18/13 03:33*	*1*
p-Terphenyl	*111*		*38 - 148*	*09/17/13 11:59*	*09/18/13 03:33*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX3-S5(4.0)
Date Collected: 09/13/13 10:50
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-7
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		09/17/13 11:59	09/18/13 03:57	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		09/17/13 11:59	09/18/13 03:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.004*		*0 - 1*	*09/17/13 11:59*	*09/18/13 03:57*	*1*
p-Terphenyl	*110*		*38 - 148*	*09/17/13 11:59*	*09/18/13 03:57*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX3-S4(4.0)
Date Collected: 09/13/13 11:05
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-8
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2700		20		mg/Kg		09/17/13 11:59	09/18/13 02:16	20
Motor Oil Range Organics [C24-C36]	3700		1000		mg/Kg		09/17/13 11:59	09/18/13 02:16	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/17/13 11:59*	*09/18/13 02:16*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*09/17/13 11:59*	*09/18/13 02:16*	*20*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX9-S6-(4.0)
Date Collected: 09/13/13 12:45
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-9
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.0099		mg/Kg		09/17/13 11:59	09/18/13 04:21	1
Motor Oil Range Organics [C24-C36]	ND		0.50		mg/Kg		09/17/13 11:59	09/18/13 04:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.004*		*0 - 1*	*09/17/13 11:59*	*09/18/13 04:21*	*1*
p-Terphenyl	*109*		*38 - 148*	*09/17/13 11:59*	*09/18/13 04:21*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-B5-(7.0)
Date Collected: 09/12/13 13:30
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-10
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1500	B	9.9		mg/Kg		09/17/13 13:00	09/18/13 11:47	10
Motor Oil Range Organics [C24-C36]	1500		500		mg/Kg		09/17/13 13:00	09/18/13 11:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/17/13 13:00*	*09/18/13 11:47*	*10*
p-Terphenyl	*0*	*D X*	*38 - 148*	*09/17/13 13:00*	*09/18/13 11:47*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Client Sample ID: EX4-S15-(4.0)
Date Collected: 09/12/13 14:05
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-11
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1400	B	20		mg/Kg		09/17/13 13:00	09/18/13 11:17	20
Motor Oil Range Organics [C24-C36]	1600		990		mg/Kg		09/17/13 13:00	09/18/13 11:17	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/17/13 13:00*	*09/18/13 11:17*	*20*
p-Terphenyl	*0*	*D X*	*38 - 148*	*09/17/13 13:00*	*09/18/13 11:17*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-144392/1-A
Matrix: Solid
Analysis Batch: 144364

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 144392

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		09/17/13 11:59	09/18/13 03:14	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		09/17/13 11:59	09/18/13 03:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*09/17/13 11:59*	*09/18/13 03:14*	*1*
p-Terphenyl	*100*		*38 - 148*	*09/17/13 11:59*	*09/18/13 03:14*	*1*

Lab Sample ID: LCS 720-144392/2-A
Matrix: Solid
Analysis Batch: 144364

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 144392

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.3	66.9		mg/Kg		80	36 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*99*		*38 - 148*

Lab Sample ID: LCSD 720-144392/3-A
Matrix: Solid
Analysis Batch: 144364

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 144392

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	83.3	64.7		mg/Kg		78	36 - 112	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*88*		*38 - 148*

Lab Sample ID: MB 720-144400/1-A
Matrix: Solid
Analysis Batch: 144362

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 144400

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.52		0.99		mg/Kg		09/17/13 13:00	09/18/13 01:56	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		09/17/13 13:00	09/18/13 01:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.004*		*0 - 1*	*09/17/13 13:00*	*09/18/13 01:56*	*1*
p-Terphenyl	*120*		*38 - 148*	*09/17/13 13:00*	*09/18/13 01:56*	*1*

Lab Sample ID: LCS 720-144400/2-A
Matrix: Solid
Analysis Batch: 144362

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 144400

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.0	68.8		mg/Kg		83	36 - 112

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-144400/2-A
Matrix: Solid
Analysis Batch: 144362

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 144400

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*111*		*38 - 148*

Lab Sample ID: LCSD 720-144400/3-A
Matrix: Solid
Analysis Batch: 144362

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 144400

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			83.0	71.2		mg/Kg		86	36 - 112	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	*109*		*38 - 148*

Lab Sample ID: 720-52314-10 MS
Matrix: Solid
Analysis Batch: 144362

Client Sample ID: EX4-B5-(7.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 144400

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	1500	B	82.8	1040	4	mg/Kg		-553	50 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	*0*	*X D*	*38 - 148*

Lab Sample ID: 720-52314-10 MSD
Matrix: Solid
Analysis Batch: 144362

Client Sample ID: EX4-B5-(7.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 144400

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	1500	B	82.4	1520	4 F	mg/Kg		17	50 - 150	37	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	*0*	*X D*	*38 - 148*

GC Semi VOA

Analysis Batch: 144362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-6	EX4-S14-(4.0)	Silica Gel Cleanup	Solid	8015B	144392
720-52314-7	EX3-S5(4.0)	Silica Gel Cleanup	Solid	8015B	144392
720-52314-9	EX9-S6-(4.0)	Silica Gel Cleanup	Solid	8015B	144392
720-52314-10 MS	EX4-B5-(7.0)	Silica Gel Cleanup	Solid	8015B	144400
720-52314-10 MSD	EX4-B5-(7.0)	Silica Gel Cleanup	Solid	8015B	144400
LCS 720-144400/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	144400
LCSD 720-144400/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	144400
MB 720-144400/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	144400

Analysis Batch: 144364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-1	EX4-S9-(3.0)	Silica Gel Cleanup	Solid	8015B	144392
LCS 720-144392/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	144392
LCSD 720-144392/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	144392
MB 720-144392/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	144392

Analysis Batch: 144365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-2	EX4-S10-(3.0)	Silica Gel Cleanup	Solid	8015B	144392
720-52314-5	EX4-S13-(4.0)	Silica Gel Cleanup	Solid	8015B	144392
720-52314-8	EX3-S4(4.0)	Silica Gel Cleanup	Solid	8015B	144392

Prep Batch: 144392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-1	EX4-S9-(3.0)	Silica Gel Cleanup	Solid	3546	
720-52314-2	EX4-S10-(3.0)	Silica Gel Cleanup	Solid	3546	
720-52314-3	EX4-S11-(4.0)	Silica Gel Cleanup	Solid	3546	
720-52314-4	EX4-S12-(4.0)	Silica Gel Cleanup	Solid	3546	
720-52314-5	EX4-S13-(4.0)	Silica Gel Cleanup	Solid	3546	
720-52314-6	EX4-S14-(4.0)	Silica Gel Cleanup	Solid	3546	
720-52314-7	EX3-S5(4.0)	Silica Gel Cleanup	Solid	3546	
720-52314-8	EX3-S4(4.0)	Silica Gel Cleanup	Solid	3546	
720-52314-9	EX9-S6-(4.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-144392/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-144392/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-144392/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Prep Batch: 144400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-10	EX4-B5-(7.0)	Silica Gel Cleanup	Solid	3546	
720-52314-10 MS	EX4-B5-(7.0)	Silica Gel Cleanup	Solid	3546	
720-52314-10 MSD	EX4-B5-(7.0)	Silica Gel Cleanup	Solid	3546	
720-52314-11	EX4-S15-(4.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-144400/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-144400/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-144400/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 144452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-3	EX4-S11-(4.0)	Silica Gel Cleanup	Solid	8015B	144392
720-52314-4	EX4-S12-(4.0)	Silica Gel Cleanup	Solid	8015B	144392

GC Semi VOA (Continued)

Analysis Batch: 144452 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-10	EX4-B5-(7.0)	Silica Gel Cleanup	Solid	8015B	144400
720-52314-11	EX4-S15-(4.0)	Silica Gel Cleanup	Solid	8015B	144400

Client Sample ID: EX4-S9-(3.0) — **Lab Sample ID: 720-52314-1**
Date Collected: 09/13/13 10:30 — **Matrix: Solid**
Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144392	09/17/13 11:59	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	144364	09/18/13 01:47	JL	TAL PLS

Client Sample ID: EX4-S10-(3.0) — **Lab Sample ID: 720-52314-2**
Date Collected: 09/13/13 10:40 — **Matrix: Solid**
Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144392	09/17/13 11:59	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	144365	09/18/13 00:19	DCH	TAL PLS

Client Sample ID: EX4-S11-(4.0) — **Lab Sample ID: 720-52314-3**
Date Collected: 09/13/13 10:45 — **Matrix: Solid**
Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144392	09/17/13 11:59	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	144452	09/18/13 10:19	JL	TAL PLS

Client Sample ID: EX4-S12-(4.0) — **Lab Sample ID: 720-52314-4**
Date Collected: 09/13/13 10:55 — **Matrix: Solid**
Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144392	09/17/13 11:59	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	144452	09/18/13 10:48	JL	TAL PLS

Client Sample ID: EX4-S13-(4.0) — **Lab Sample ID: 720-52314-5**
Date Collected: 09/13/13 11:00 — **Matrix: Solid**
Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144392	09/17/13 11:59	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	144365	09/18/13 01:47	DCH	TAL PLS

Client Sample ID: EX4-S14-(4.0) — **Lab Sample ID: 720-52314-6**
Date Collected: 09/13/13 11:15 — **Matrix: Solid**
Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144392	09/17/13 11:59	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	144362	09/18/13 03:33	DCH	TAL PLS

Client Sample ID: EX3-S5(4.0)

Lab Sample ID: 720-52314-7

Date Collected: 09/13/13 10:50

Matrix: Solid

Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144392	09/17/13 11:59	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	144362	09/18/13 03:57	DCH	TAL PLS

Client Sample ID: EX3-S4(4.0)

Lab Sample ID: 720-52314-8

Date Collected: 09/13/13 11:05

Matrix: Solid

Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144392	09/17/13 11:59	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	144365	09/18/13 02:16	DCH	TAL PLS

Client Sample ID: EX9-S6-(4.0)

Lab Sample ID: 720-52314-9

Date Collected: 09/13/13 12:45

Matrix: Solid

Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144392	09/17/13 11:59	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	144362	09/18/13 04:21	DCH	TAL PLS

Client Sample ID: EX4-B5-(7.0)

Lab Sample ID: 720-52314-10

Date Collected: 09/12/13 13:30

Matrix: Solid

Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144400	09/17/13 13:00	DBT	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	144452	09/18/13 11:47	JL	TAL PLS

Client Sample ID: EX4-S15-(4.0)

Lab Sample ID: 720-52314-11

Date Collected: 09/12/13 14:05

Matrix: Solid

Date Received: 09/13/13 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			144400	09/17/13 13:00	DBT	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	144452	09/18/13 11:17	JL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-52314-1	EX4-S9-(3.0)	Solid	09/13/13 10:30	09/13/13 15:45
720-52314-2	EX4-S10-(3.0)	Solid	09/13/13 10:40	09/13/13 15:45
720-52314-3	EX4-S11-(4.0)	Solid	09/13/13 10:45	09/13/13 15:45
720-52314-4	EX4-S12-(4.0)	Solid	09/13/13 10:55	09/13/13 15:45
720-52314-5	EX4-S13-(4.0)	Solid	09/13/13 11:00	09/13/13 15:45
720-52314-6	EX4-S14-(4.0)	Solid	09/13/13 11:15	09/13/13 15:45
720-52314-7	EX3-S5(4.0)	Solid	09/13/13 10:50	09/13/13 15:45
720-52314-8	EX3-S4(4.0)	Solid	09/13/13 11:05	09/13/13 15:45
720-52314-9	EX9-S6-(4.0)	Solid	09/13/13 12:45	09/13/13 15:45
720-52314-10	EX4-B5-(7.0)	Solid	09/12/13 13:30	09/13/13 15:45
720-52314-11	EX4-S15-(4.0)	Solid	09/12/13 14:05	09/13/13 15:45

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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 1486022

720-52314

Date 9/13/2013 Page 1 of 2

11/21/2013

Report To

Attn: K. Guthrie, J. Schwartz
Company: Haley & Aldrich Walnut Creek 94596
Address: 2033 North Main St., Suite 309
Email: Kguthrie@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: B. Mullholland
Attn: K. Guthrie
Phone: 925-949-1011

Analysis Request

Sample ID	Date	Time	Mat. ID	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS)	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
EX4-S9-(3.0)	9/13/13	1030	Soil	unp.				X																		1
EX4-S10-(3.0)	9/13/13	1040	Soil	unp.				X																		1
EX4-S11-(4.0)	9/13/13	1045	Soil	unp.				X																		1
EX4-S12-(4.0)	9/13/13	1055	Soil	unp.				X																		1
EX4-S13-(4.0)	9/13/13	1100	Soil	unp.				X																		1
EX4-S14-(4.0)	9/13/13	1115	Soil	unp.				X																		1
EX4-B4 (8.0)	9/13/13	1050	Soil	unp.				X																		1
EX3-S4 (4.0)	9/13/13	1105	Soil	unp.				X																		1
EX9-S6-(4.0)	9/13/13	1245	Soil	unp.				X																		1
EX4-B5-(7.0)	9/12/13	1330	Soil	unp.				X																		1

RUSH

Project Info

Project Name/ #:
PO#:

Sample Receipt

of Containers:
Head Space:
Temp: 10.5°C
Credit Card Y/N: If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | 2 Day | 1 Day | Other.

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments ☐ Global ID _____

See Terms and Conditions on reverse

	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature	[signature] 1545		
Time	9/13/13		
Printed Name	Brenden J. Mullholland		
Date			
Company	Haley & Aldrich		

	1) Received by:	2) Received by:	3) Received by:
Signature	[signature] 1545		
Time			
Printed Name	Justinn Gonzales 9/13/13		
Date			
Company	TAP		

720-52314 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-52314

Reference #: 148622

Date 9/13/2013 Page 2 of 2

11/21/2013

Report To

Attn: K. Guthrie, J. Schwartz
Company: Haley & Aldrich
Address: 2033 North Main St., Suite 309
Email: Kguthrie@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: B. Mullholland
Attn: K. Guthrie
Phone: 925.949.1017

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C (unp.) ☒ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (U/HNO3) (EPA 6010/7470/7471)	Metals ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other. ___	Metals: ☐ 6020 ☐ 200 8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
5x4.5ft.(4.0)	9/12/13	1405	Soil	unp.				X																	1
EB91313 ✱	9/13/13	1145	Water	unp! HNO3				X		X			X												5

RUSH

Project Info

Project Name/ #:
PO#:
Credit Card Y/N:

Sample Receipt

of Containers:
Head Space:
Temp. 10.5°C

If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | 2 Day | 1 Day ✱ Other. 5-Day on EB91313

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by.	3) Relinquished by
Signature: 1545	Signature / Time	Signature / Time
Printed Name: Brenda J. Mullholland	Printed Name / Date	Printed Name / Date
Date: 9/13/13	Company	Company
Company: Haley & Aldrich		

1) Received by:	2) Received by	3) Received by
Signature: 1545	Signature / Time	Signature / Time
Printed Name: Justinn Gonzales	Printed Name / Date	Printed Name / Date
Date: 9/13/13	Company	Company
Company: TAP		

Rev 10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-52314-1

Login Number: 52314

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-52314-2
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
9/20/2013 5:08:06 PM
Afsaneh Salimpour, Project Manager I
afsaneh.salimpour@testamericainc.com

Designee for

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-52314-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-52314-2

Comments
No additional comments.

Receipt
The samples were received on 9/13/2013 3:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 10.5º C.

GC/MS Semi VOA
No analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
Method(s) 7470A: The method blank for preparation batch 144572 contained Hg above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-2

Client Sample ID: EB91313 **Lab Sample ID: 720-52314-12**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-2

Client Sample ID: EB91313
Date Collected: 09/13/13 11:45
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-12
Matrix: Water

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.094		ug/L		09/17/13 15:07	09/19/13 02:13	1
Acenaphthene	ND		0.094		ug/L		09/17/13 15:07	09/19/13 02:13	1
Acenaphthylene	ND		0.094		ug/L		09/17/13 15:07	09/19/13 02:13	1
Fluorene	ND		0.094		ug/L		09/17/13 15:07	09/19/13 02:13	1
Phenanthrene	ND		0.094		ug/L		09/17/13 15:07	09/19/13 02:13	1
Anthracene	ND		0.094		ug/L		09/17/13 15:07	09/19/13 02:13	1
Benzo[a]anthracene	ND		0.094		ug/L		09/17/13 15:07	09/19/13 02:13	1
Chrysene	ND		0.094		ug/L		09/17/13 15:07	09/19/13 02:13	1
Benzo[a]pyrene	ND		0.094		ug/L		09/17/13 15:07	09/19/13 02:13	1
Benzo[b]fluoranthene	ND		0.094		ug/L		09/17/13 15:07	09/19/13 02:13	1
Benzo[k]fluoranthene	ND		0.094		ug/L		09/17/13 15:07	09/19/13 02:13	1
Benzo[g,h,i]perylene	ND		0.094		ug/L		09/17/13 15:07	09/19/13 02:13	1
Indeno[1,2,3-cd]pyrene	ND		0.094		ug/L		09/17/13 15:07	09/19/13 02:13	1
Fluoranthene	ND		0.094		ug/L		09/17/13 15:07	09/19/13 02:13	1
Pyrene	ND		0.094		ug/L		09/17/13 15:07	09/19/13 02:13	1
Dibenz(a,h)anthracene	ND		0.094		ug/L		09/17/13 15:07	09/19/13 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*51*		*29 - 120*	*09/17/13 15:07*	*09/19/13 02:13*	*1*
Terphenyl-d14	*73*		*45 - 120*	*09/17/13 15:07*	*09/19/13 02:13*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		51		ug/L		09/18/13 09:44	09/18/13 22:30	1
Motor Oil Range Organics [C24-C36]	ND		100		ug/L		09/18/13 09:44	09/18/13 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.008*		*0 - 5*	*09/18/13 09:44*	*09/18/13 22:30*	*1*
p-Terphenyl	*85*		*31 - 150*	*09/18/13 09:44*	*09/18/13 22:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		09/17/13 08:58	09/19/13 10:35	1
Arsenic	ND		0.010		mg/L		09/17/13 08:58	09/19/13 10:35	1
Barium	ND		0.0050		mg/L		09/17/13 08:58	09/19/13 10:35	1
Beryllium	ND		0.0020		mg/L		09/17/13 08:58	09/19/13 19:25	1
Cadmium	ND		0.0025		mg/L		09/17/13 08:58	09/19/13 10:35	1
Chromium	ND		0.010		mg/L		09/17/13 08:58	09/19/13 19:25	1
Cobalt	ND		0.0020		mg/L		09/17/13 08:58	09/19/13 10:35	1
Copper	ND		0.020		mg/L		09/17/13 08:58	09/19/13 19:25	1
Lead	ND		0.0050		mg/L		09/17/13 08:58	09/19/13 10:35	1
Molybdenum	ND		0.010		mg/L		09/17/13 08:58	09/19/13 10:35	1
Nickel	ND		0.010		mg/L		09/17/13 08:58	09/19/13 10:35	1
Selenium	ND		0.020		mg/L		09/17/13 08:58	09/19/13 10:35	1
Silver	ND		0.0050		mg/L		09/17/13 08:58	09/19/13 10:35	1
Thallium	ND		0.010		mg/L		09/17/13 08:58	09/19/13 10:35	1
Vanadium	ND		0.010		mg/L		09/17/13 08:58	09/19/13 19:25	1
Zinc	ND		0.020		mg/L		09/17/13 08:58	09/19/13 10:35	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-2

Client Sample ID: EB91313
Date Collected: 09/13/13 11:45
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-12
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		09/19/13 14:11	09/19/13 20:01	1

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-144413/1-A
Matrix: Water
Analysis Batch: 144468

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 144413

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10		ug/L		09/17/13 15:05	09/18/13 18:07	1
Acenaphthene	ND		0.10		ug/L		09/17/13 15:05	09/18/13 18:07	1
Acenaphthylene	ND		0.10		ug/L		09/17/13 15:05	09/18/13 18:07	1
Fluorene	ND		0.10		ug/L		09/17/13 15:05	09/18/13 18:07	1
Phenanthrene	ND		0.10		ug/L		09/17/13 15:05	09/18/13 18:07	1
Anthracene	ND		0.10		ug/L		09/17/13 15:05	09/18/13 18:07	1
Benzo[a]anthracene	ND		0.10		ug/L		09/17/13 15:05	09/18/13 18:07	1
Chrysene	ND		0.10		ug/L		09/17/13 15:05	09/18/13 18:07	1
Benzo[a]pyrene	ND		0.10		ug/L		09/17/13 15:05	09/18/13 18:07	1
Benzo[b]fluoranthene	ND		0.10		ug/L		09/17/13 15:05	09/18/13 18:07	1
Benzo[k]fluoranthene	ND		0.10		ug/L		09/17/13 15:05	09/18/13 18:07	1
Benzo[g,h,i]perylene	ND		0.10		ug/L		09/17/13 15:05	09/18/13 18:07	1
Indeno[1,2,3-cd]pyrene	ND		0.10		ug/L		09/17/13 15:05	09/18/13 18:07	1
Fluoranthene	ND		0.10		ug/L		09/17/13 15:05	09/18/13 18:07	1
Pyrene	ND		0.10		ug/L		09/17/13 15:05	09/18/13 18:07	1
Dibenz(a,h)anthracene	ND		0.10		ug/L		09/17/13 15:05	09/18/13 18:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*45*		*29 - 120*	*09/17/13 15:05*	*09/18/13 18:07*	*1*
Terphenyl-d14	*66*		*45 - 120*	*09/17/13 15:05*	*09/18/13 18:07*	*1*

Lab Sample ID: LCS 720-144413/2-A
Matrix: Water
Analysis Batch: 144468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 144413

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	10.0	6.04		ug/L		60	29 - 120
Acenaphthene	10.0	6.31		ug/L		63	42 - 120
Acenaphthylene	10.0	6.61		ug/L		66	39 - 120
Fluorene	10.0	6.74		ug/L		67	45 - 120
Phenanthrene	10.0	6.28		ug/L		63	46 - 120
Anthracene	10.0	6.36		ug/L		64	53 - 120
Benzo[a]anthracene	10.0	6.80		ug/L		68	48 - 120
Chrysene	10.0	6.21		ug/L		62	47 - 120
Benzo[a]pyrene	10.0	6.91		ug/L		69	43 - 120
Benzo[b]fluoranthene	10.0	7.43		ug/L		74	42 - 120
Benzo[k]fluoranthene	10.0	6.28		ug/L		63	42 - 120
Benzo[g,h,i]perylene	10.0	6.37		ug/L		64	24 - 120
Indeno[1,2,3-cd]pyrene	10.0	6.43		ug/L		64	25 - 120
Fluoranthene	10.0	6.84		ug/L		68	57 - 120
Pyrene	10.0	6.49		ug/L		65	47 - 120
Dibenz(a,h)anthracene	10.0	6.14		ug/L		61	21 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*64*		*29 - 120*
Terphenyl-d14	*70*		*45 - 120*

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-144413/3-A
Matrix: Water
Analysis Batch: 144468

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 144413

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			10.0	5.28		ug/L		53	29 - 120	13	35
Acenaphthene			10.0	5.83		ug/L		58	42 - 120	8	35
Acenaphthylene			10.0	6.14		ug/L		61	39 - 120	7	35
Fluorene			10.0	6.33		ug/L		63	45 - 120	6	35
Phenanthrene			10.0	6.15		ug/L		61	46 - 120	2	35
Anthracene			10.0	6.32		ug/L		63	53 - 120	1	35
Benzo[a]anthracene			10.0	6.72		ug/L		67	48 - 120	1	35
Chrysene			10.0	6.11		ug/L		61	47 - 120	2	35
Benzo[a]pyrene			10.0	6.53		ug/L		65	43 - 120	6	35
Benzo[b]fluoranthene			10.0	7.32		ug/L		73	42 - 120	1	35
Benzo[k]fluoranthene			10.0	5.69		ug/L		57	42 - 120	10	35
Benzo[g,h,i]perylene			10.0	5.74		ug/L		57	24 - 120	10	35
Indeno[1,2,3-cd]pyrene			10.0	5.83		ug/L		58	25 - 120	10	35
Fluoranthene			10.0	7.11		ug/L		71	57 - 120	4	35
Pyrene			10.0	6.53		ug/L		65	47 - 120	1	35
Dibenz(a,h)anthracene			10.0	5.55		ug/L		56	21 - 120	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*60*		*29 - 120*
Terphenyl-d14	*67*		*45 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-144465/1-A
Matrix: Water
Analysis Batch: 144453

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 144465

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		09/18/13 09:44	09/19/13 01:54	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		09/18/13 09:44	09/19/13 01:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.2*		*0 - 5*	*09/18/13 09:44*	*09/19/13 01:54*	*1*
p-Terphenyl	*98*		*31 - 150*	*09/18/13 09:44*	*09/19/13 01:54*	*1*

Lab Sample ID: LCS 720-144465/2-A
Matrix: Water
Analysis Batch: 144453

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 144465

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			2500	2020		ug/L		81	32 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*108*		*31 - 150*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-144465/3-A
Matrix: Water
Analysis Batch: 144453

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 144465

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			2500	1770		ug/L		71	32 - 119	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*106*		*31 - 150*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-144380/1-A
Matrix: Water
Analysis Batch: 144574

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 144380

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		09/17/13 08:58	09/19/13 10:00	1
Arsenic	ND		0.010		mg/L		09/17/13 08:58	09/19/13 10:00	1
Barium	ND		0.0050		mg/L		09/17/13 08:58	09/19/13 10:00	1
Cadmium	ND		0.0025		mg/L		09/17/13 08:58	09/19/13 10:00	1
Cobalt	ND		0.0020		mg/L		09/17/13 08:58	09/19/13 10:00	1
Lead	ND		0.0050		mg/L		09/17/13 08:58	09/19/13 10:00	1
Molybdenum	ND		0.010		mg/L		09/17/13 08:58	09/19/13 10:00	1
Nickel	ND		0.010		mg/L		09/17/13 08:58	09/19/13 10:00	1
Selenium	ND		0.020		mg/L		09/17/13 08:58	09/19/13 10:00	1
Silver	ND		0.0050		mg/L		09/17/13 08:58	09/19/13 10:00	1
Thallium	ND		0.010		mg/L		09/17/13 08:58	09/19/13 10:00	1
Zinc	ND		0.020		mg/L		09/17/13 08:58	09/19/13 10:00	1

Lab Sample ID: MB 720-144380/1-A
Matrix: Water
Analysis Batch: 144601

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 144380

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0020		mg/L		09/17/13 08:58	09/19/13 18:42	1
Chromium	ND		0.010		mg/L		09/17/13 08:58	09/19/13 18:42	1
Copper	ND		0.020		mg/L		09/17/13 08:58	09/19/13 18:42	1
Vanadium	ND		0.010		mg/L		09/17/13 08:58	09/19/13 18:42	1

Lab Sample ID: LCS 720-144380/2-A
Matrix: Water
Analysis Batch: 144574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 144380

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony			1.00	0.922		mg/L		92	80 - 120
Arsenic			1.00	0.921		mg/L		92	80 - 120
Barium			1.00	1.02		mg/L		102	80 - 120
Cadmium			1.00	0.985		mg/L		99	80 - 120
Cobalt			1.00	0.953		mg/L		95	80 - 120
Lead			1.00	0.982		mg/L		98	80 - 120
Molybdenum			1.00	0.990		mg/L		99	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-144380/2-A
Matrix: Water
Analysis Batch: 144574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 144380

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	1.00	0.983		mg/L		98	80 - 120
Selenium	1.00	0.994		mg/L		99	80 - 120
Silver	0.500	0.468		mg/L		94	80 - 120
Thallium	1.00	0.979		mg/L		98	80 - 120
Zinc	1.00	0.925		mg/L		93	80 - 120

Lab Sample ID: LCS 720-144380/2-A
Matrix: Water
Analysis Batch: 144601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 144380

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	1.00	1.03		mg/L		103	80 - 120
Chromium	1.00	1.01		mg/L		101	80 - 120
Copper	1.00	1.01		mg/L		101	80 - 120
Vanadium	1.00	0.951		mg/L		95	80 - 120

Lab Sample ID: LCSD 720-144380/3-A
Matrix: Water
Analysis Batch: 144574

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 144380

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.00	0.918		mg/L		92	80 - 120	0	20
Arsenic	1.00	0.912		mg/L		91	80 - 120	1	20
Barium	1.00	0.958		mg/L		96	80 - 120	6	20
Cadmium	1.00	0.983		mg/L		98	80 - 120	0	20
Cobalt	1.00	0.943		mg/L		94	80 - 120	1	20
Lead	1.00	0.977		mg/L		98	80 - 120	0	20
Molybdenum	1.00	0.988		mg/L		99	80 - 120	0	20
Nickel	1.00	0.977		mg/L		98	80 - 120	1	20
Selenium	1.00	1.00		mg/L		100	80 - 120	1	20
Silver	0.500	0.462		mg/L		92	80 - 120	1	20
Thallium	1.00	0.975		mg/L		97	80 - 120	0	20
Zinc	1.00	0.914		mg/L		91	80 - 120	1	20

Lab Sample ID: LCSD 720-144380/3-A
Matrix: Water
Analysis Batch: 144601

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 144380

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium	1.00	1.00		mg/L		100	80 - 120	2	20
Chromium	1.00	1.01		mg/L		101	80 - 120	1	20
Copper	1.00	1.01		mg/L		101	80 - 120	0	20
Vanadium	1.00	0.957		mg/L		96	80 - 120	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-144572/1-A
Matrix: Water
Analysis Batch: 144614

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 144572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000232		0.00020		mg/L		09/19/13 14:11	09/19/13 19:41	1

Lab Sample ID: LCS 720-144572/2-A
Matrix: Water
Analysis Batch: 144614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 144572

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.0100	0.00934		mg/L		93	85 - 115		

Lab Sample ID: LCSD 720-144572/3-A
Matrix: Water
Analysis Batch: 144614

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 144572

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.0100	0.00924		mg/L		92	85 - 115	1	20

Lab Sample ID: 720-52314-12 MS
Matrix: Water
Analysis Batch: 144614

Client Sample ID: EB91313
Prep Type: Total/NA
Prep Batch: 144572

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.0100	0.00814		mg/L		81	70 - 130		

Lab Sample ID: 720-52314-12 MSD
Matrix: Water
Analysis Batch: 144614

Client Sample ID: EB91313
Prep Type: Total/NA
Prep Batch: 144572

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.0100	0.00938		mg/L		94	70 - 130	14	20

GC/MS Semi VOA

Prep Batch: 144413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-12	EB91313	Total/NA	Water	3510C	
LCS 720-144413/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-144413/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-144413/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 144468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-12	EB91313	Total/NA	Water	8270C SIM	144413
LCS 720-144413/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	144413
LCSD 720-144413/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	144413
MB 720-144413/1-A	Method Blank	Total/NA	Water	8270C SIM	144413

GC Semi VOA

Analysis Batch: 144452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-12	EB91313	Silica Gel Cleanup	Water	8015B	144465

Analysis Batch: 144453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-144465/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	144465
LCSD 720-144465/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	144465
MB 720-144465/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	144465

Prep Batch: 144465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-12	EB91313	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-144465/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-144465/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 720-144465/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

Metals

Prep Batch: 144380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-12	EB91313	Total/NA	Water	3010A	
LCS 720-144380/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 720-144380/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 720-144380/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 144572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-12	EB91313	Total/NA	Water	7470A	
720-52314-12 MS	EB91313	Total/NA	Water	7470A	
720-52314-12 MSD	EB91313	Total/NA	Water	7470A	
LCS 720-144572/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 720-144572/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
MB 720-144572/1-A	Method Blank	Total/NA	Water	7470A	

Metals (Continued)

Analysis Batch: 144574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-12	EB91313	Total/NA	Water	6010B	144380
LCS 720-144380/2-A	Lab Control Sample	Total/NA	Water	6010B	144380
LCSD 720-144380/3-A	Lab Control Sample Dup	Total/NA	Water	6010B	144380
MB 720-144380/1-A	Method Blank	Total/NA	Water	6010B	144380

Analysis Batch: 144601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-12	EB91313	Total/NA	Water	6010B	144380
LCS 720-144380/2-A	Lab Control Sample	Total/NA	Water	6010B	144380
LCSD 720-144380/3-A	Lab Control Sample Dup	Total/NA	Water	6010B	144380
MB 720-144380/1-A	Method Blank	Total/NA	Water	6010B	144380

Analysis Batch: 144614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52314-12	EB91313	Total/NA	Water	7470A	144572
720-52314-12 MS	EB91313	Total/NA	Water	7470A	144572
720-52314-12 MSD	EB91313	Total/NA	Water	7470A	144572
LCS 720-144572/2-A	Lab Control Sample	Total/NA	Water	7470A	144572
LCSD 720-144572/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	144572
MB 720-144572/1-A	Method Blank	Total/NA	Water	7470A	144572

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-2

Client Sample ID: EB91313

Date Collected: 09/13/13 11:45
Date Received: 09/13/13 15:45

Lab Sample ID: 720-52314-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			144413	09/17/13 15:07	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		1	144468	09/19/13 02:13	MQL	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			144465	09/18/13 09:44	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	144452	09/18/13 22:30	JL	TAL PLS
Total/NA	Analysis	6010B		1	144574	09/19/13 10:35	EFH	TAL PLS
Total/NA	Prep	3010A			144380	09/17/13 08:58	ECT	TAL PLS
Total/NA	Analysis	6010B		1	144601	09/19/13 19:25	SLK	TAL PLS
Total/NA	Prep	7470A			144572	09/19/13 14:11	ECT	TAL PLS
Total/NA	Analysis	7470A		1	144614	09/19/13 20:01	SLK	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-2

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-2

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52314-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-52314-12	EB91313	Water	09/13/13 11:45	09/13/13 15:45

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 1486022

720-52314

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9/20/2013

Report To

Attn: K. Guthrie, J. Schwartz
Company: Haley & Aldrich Walnut Creek 94596
Address: 2033 North Main St., Suite 309
Email: Kguthrie@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: B. Mullholland
Attn: K. Guthrie
Phone: 925-949-1011

Analysis Request

Sample ID	Date	Time	Mat. ID	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS)	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
EX4-S9-(3.0)	9/13/13	1030	Soil	unp.				X																		1
EX4-S10-(3.0)	9/13/13	1040	Soil	unp.				X																		1
EX4-S11-(4.0)	9/13/13	1045	Soil	unp.				X																		1
EX4-S12-(4.0)	9/13/13	1055	Soil	unp.				X																		1
EX4-S13-(4.0)	9/13/13	1100	Soil	unp.				X																		1
EX4-S14-(4.0)	9/13/13	1115	Soil	unp.				X																		1
EX4-B4 (8.0)	9/13/13	1050	Soil	unp.				X																		1
EX3-S4 (4.0)	9/13/13	1105	Soil	unp.				X																		1
EX9-S6-(4.0)	9/13/13	1245	Soil	unp.				X																		1
EX4-B5-(7.0)	9/12/13	1330	Soil	unp.				X																		1

RUSH

Project Info

Project Name/ #:
PO#:

Sample Receipt

of Containers:
Head Space:
Temp: 10.5°C
Credit Card Y/N: If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | 2 Day | 1 Day | Other.

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments ☐ Global ID

See Terms and Conditions on reverse

	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature	1545		
Time	9/13/13		
Printed Name	Brenden J. Mullholland		
Date			
Company	Haley & Aldrich		

	1) Received by:	2) Received by:	3) Received by:
Signature	1545		
Time			
Printed Name	Justinn Gonzales 9/13/13		
Date			
Company	TAP		

720-52314 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-52314

Reference #: 148622

Date 9/13/2013 Page 2 of 2

9/20/2013

Report To

Attn: K. Guthrie, J. Schwartz
Company: Haley & Aldrich
Address: 2033 North Main St., Suite 309
Email: Kguthrie@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: B. Mullholland
Attn: K. Guthrie
Phone: 925.949.1017

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C (ump.) ☒ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (W/HNO3) (EPA 6010/7470/7471)	Metals ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other. ___	Metals: ☐ 6020 ☐ 200 8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
5x4.515.(4.0)	9/12/13	1405	Soil	ump.				X																	1
EB91313 ⊛	9/13/13	1145	Water	ump/ HNO3				X		X			X												5

RUSH

Page 20 of 21

Project Info

Project Name/ #:
PO#:
Credit Card Y/N:

Sample Receipt

of Containers:
Head Space:
Temp. 10.5°C

If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | 2 Day | 1 Day ⊛ Other. 5-Day on EB91313

Report ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments. ☐ Global ID ___

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by.	3) Relinquished by	
Signature:	Signature:	Signature:	
Time: 1545	Time:	Time:	
Printed Name: Brenda J. Mullholland	Printed Name:	Printed Name:	
Date: 9/13/13	Date:	Date:	
Company: Haley & Aldrich	Company:	Company:	
1) Received by:	2) Received by	3) Received by	
Signature:	Signature:	Signature:	
Time: 1545	Time:	Time:	
Printed Name: Justinn Gonzales	Printed Name:	Printed Name:	
Date: 9/13/13	Date:	Date:	
Company: TAP	Company:	Company:	

Rev 10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-52314-2

Login Number: 52314

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



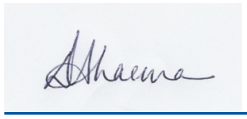
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-53330-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz



Authorized for release by:
11/5/2013 5:18:01 PM

Dimple Sharma, Project Manager I
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
*	RPD of the LCS and LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-53330-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-53330-1

Comments
No additional comments.

Receipt
The samples were received on 10/25/2013 3:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9º C.

GC/MS VOA
No analytical or quality issues were noted.

GC/MS Semi VOA
Method 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch #147562 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: EX6-S14(5.0) (720-53330-2). Elevated reporting limits (RLs) are provided.

Method 8270C SIM: The sample EB10252013 was cancelled due to QA/QC failure.

No other analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: EX5-S14(5.0) (720-53330-1).

Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: EX6-S14(5.0) (720-53330-2).

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53330-1

Client Sample ID: EX5-S14(5.0) — Lab Sample ID: 720-53330-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2600		50		mg/Kg	50		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	6500		2500		mg/Kg	50		8015B	Silica Gel Cleanup

Client Sample ID: EX6-S14(5.0) — Lab Sample ID: 720-53330-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	110		50		ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	420		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	600		250		mg/Kg	5		8015B	Silica Gel Cleanup
Stoddard Solvent Range Organics (C9-C13)	6.9		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Barium	82		1.9		mg/Kg	4		6010B	Total/NA
Chromium	28		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	7.1		0.77		mg/Kg	4		6010B	Total/NA
Copper	19		5.8		mg/Kg	4		6010B	Total/NA
Lead	19		1.9		mg/Kg	4		6010B	Total/NA
Nickel	47		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	18		1.9		mg/Kg	4		6010B	Total/NA
Zinc	46		5.8		mg/Kg	4		6010B	Total/NA
Mercury	0.039		0.0090		mg/Kg	1		7471A	Total/NA

Client Sample ID: EB10252013 — Lab Sample ID: 720-53330-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53330-1

Client Sample ID: EX5-S14(5.0)
Date Collected: 10/25/13 08:30
Date Received: 10/25/13 15:20

Lab Sample ID: 720-53330-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2600		50		mg/Kg		10/31/13 09:10	10/31/13 21:49	50
Motor Oil Range Organics [C24-C36]	6500		2500		mg/Kg		10/31/13 09:10	10/31/13 21:49	50
Stoddard Solvent Range Organics (C9-C13)	ND		50		mg/Kg		10/31/13 09:10	10/31/13 21:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/31/13 09:10*	*10/31/13 21:49*	*50*
p-Terphenyl	*0*	*X D*	*38 - 148*	*10/31/13 09:10*	*10/31/13 21:49*	*50*

Client Sample ID: EX6-S14(5.0)
Date Collected: 10/25/13 08:40
Date Received: 10/25/13 15:20

Lab Sample ID: 720-53330-2
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		50		ug/Kg		11/01/13 13:10	11/04/13 13:22	5
Acenaphthylene	ND		50		ug/Kg		11/01/13 13:10	11/04/13 13:22	5
Anthracene	ND		50		ug/Kg		11/01/13 13:10	11/04/13 13:22	5
Benzo[a]anthracene	ND		50		ug/Kg		11/01/13 13:10	11/04/13 13:22	5
Benzo[a]pyrene	ND		50		ug/Kg		11/01/13 13:10	11/04/13 13:22	5
Benzo[b]fluoranthene	ND		50		ug/Kg		11/01/13 13:10	11/04/13 13:22	5
Benzo[g,h,i]perylene	ND		50		ug/Kg		11/01/13 13:10	11/04/13 13:22	5
Benzo[k]fluoranthene	ND		50		ug/Kg		11/01/13 13:10	11/04/13 13:22	5
Chrysene	ND		50		ug/Kg		11/01/13 13:10	11/04/13 13:22	5
Dibenz(a,h)anthracene	ND		50		ug/Kg		11/01/13 13:10	11/04/13 13:22	5
Fluoranthene	ND		50		ug/Kg		11/01/13 13:10	11/04/13 13:22	5
Fluorene	ND		50		ug/Kg		11/01/13 13:10	11/04/13 13:22	5
Indeno[1,2,3-cd]pyrene	ND		50		ug/Kg		11/01/13 13:10	11/04/13 13:22	5
Naphthalene	**110**		50		ug/Kg		11/01/13 13:10	11/04/13 13:22	5
Phenanthrene	ND		50		ug/Kg		11/01/13 13:10	11/04/13 13:22	5
Pyrene	ND		50		ug/Kg		11/01/13 13:10	11/04/13 13:22	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*33 - 120*	*11/01/13 13:10*	*11/04/13 13:22*	*5*
Terphenyl-d14	*89*		*35 - 146*	*11/01/13 13:10*	*11/04/13 13:22*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**420**		5.0		mg/Kg		10/31/13 09:10	10/31/13 22:14	5
Motor Oil Range Organics [C24-C36]	**600**		250		mg/Kg		10/31/13 09:10	10/31/13 22:14	5
Stoddard Solvent Range Organics (C9-C13)	**6.9**		5.0		mg/Kg		10/31/13 09:10	10/31/13 22:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/31/13 09:10*	*10/31/13 22:14*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*10/31/13 09:10*	*10/31/13 22:14*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		10/29/13 22:04	10/30/13 20:05	4
Arsenic	ND		3.8		mg/Kg		10/29/13 22:04	10/30/13 20:05	4
Barium	**82**		1.9		mg/Kg		10/29/13 22:04	10/30/13 20:05	4
Beryllium	ND		0.38		mg/Kg		10/29/13 22:04	10/30/13 20:05	4
Cadmium	ND		0.48		mg/Kg		10/29/13 22:04	10/30/13 20:05	4
Chromium	**28**		1.9		mg/Kg		10/29/13 22:04	10/30/13 20:05	4
Cobalt	**7.1**		0.77		mg/Kg		10/29/13 22:04	10/30/13 20:05	4
Copper	**19**		5.8		mg/Kg		10/29/13 22:04	10/30/13 20:05	4
Lead	**19**		1.9		mg/Kg		10/29/13 22:04	10/30/13 20:05	4
Molybdenum	ND		1.9		mg/Kg		10/29/13 22:04	10/30/13 20:05	4
Nickel	**47**		1.9		mg/Kg		10/29/13 22:04	10/30/13 20:05	4
Selenium	ND		3.8		mg/Kg		10/29/13 22:04	10/30/13 20:05	4
Silver	ND		0.96		mg/Kg		10/29/13 22:04	10/30/13 20:05	4
Thallium	ND		1.9		mg/Kg		10/29/13 22:04	10/30/13 20:05	4
Vanadium	**18**		1.9		mg/Kg		10/29/13 22:04	10/30/13 20:05	4
Zinc	**46**		5.8		mg/Kg		10/29/13 22:04	10/30/13 20:05	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53330-1

Client Sample ID: EX6-S14(5.0)
Date Collected: 10/25/13 08:40
Date Received: 10/25/13 15:20

Lab Sample ID: 720-53330-2
Matrix: Solid

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.0090		mg/Kg		10/30/13 21:24	10/31/13 12:46	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53330-1

Client Sample ID: EB10252013
Date Collected: 10/25/13 10:20
Date Received: 10/25/13 15:20

Lab Sample ID: 720-53330-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			10/30/13 16:54	1
Acetone	ND		50		ug/L			10/30/13 16:54	1
Benzene	ND		0.50		ug/L			10/30/13 16:54	1
Dichlorobromomethane	ND		0.50		ug/L			10/30/13 16:54	1
Bromobenzene	ND		1.0		ug/L			10/30/13 16:54	1
Chlorobromomethane	ND		1.0		ug/L			10/30/13 16:54	1
Bromoform	ND		1.0		ug/L			10/30/13 16:54	1
Bromomethane	ND		1.0		ug/L			10/30/13 16:54	1
2-Butanone (MEK)	ND		50		ug/L			10/30/13 16:54	1
n-Butylbenzene	ND		1.0		ug/L			10/30/13 16:54	1
sec-Butylbenzene	ND		1.0		ug/L			10/30/13 16:54	1
tert-Butylbenzene	ND		1.0		ug/L			10/30/13 16:54	1
Carbon disulfide	ND		5.0		ug/L			10/30/13 16:54	1
Carbon tetrachloride	ND		0.50		ug/L			10/30/13 16:54	1
Chlorobenzene	ND		0.50		ug/L			10/30/13 16:54	1
Chloroethane	ND		1.0		ug/L			10/30/13 16:54	1
Chloroform	ND		1.0		ug/L			10/30/13 16:54	1
Chloromethane	ND		1.0		ug/L			10/30/13 16:54	1
2-Chlorotoluene	ND		0.50		ug/L			10/30/13 16:54	1
4-Chlorotoluene	ND		0.50		ug/L			10/30/13 16:54	1
Chlorodibromomethane	ND		0.50		ug/L			10/30/13 16:54	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/30/13 16:54	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/30/13 16:54	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/30/13 16:54	1
1,3-Dichloropropane	ND		1.0		ug/L			10/30/13 16:54	1
1,1-Dichloropropene	ND		0.50		ug/L			10/30/13 16:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			10/30/13 16:54	1
Ethylene Dibromide	ND		0.50		ug/L			10/30/13 16:54	1
Dibromomethane	ND		0.50		ug/L			10/30/13 16:54	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/30/13 16:54	1
1,1-Dichloroethane	ND		0.50		ug/L			10/30/13 16:54	1
1,2-Dichloroethane	ND		0.50		ug/L			10/30/13 16:54	1
1,1-Dichloroethene	ND		0.50		ug/L			10/30/13 16:54	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/30/13 16:54	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/30/13 16:54	1
1,2-Dichloropropane	ND		0.50		ug/L			10/30/13 16:54	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/30/13 16:54	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/30/13 16:54	1
Ethylbenzene	ND		0.50		ug/L			10/30/13 16:54	1
Hexachlorobutadiene	ND		1.0		ug/L			10/30/13 16:54	1
2-Hexanone	ND		50		ug/L			10/30/13 16:54	1
Isopropylbenzene	ND		0.50		ug/L			10/30/13 16:54	1
4-Isopropyltoluene	ND		1.0		ug/L			10/30/13 16:54	1
Methylene Chloride	ND		5.0		ug/L			10/30/13 16:54	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/30/13 16:54	1
Naphthalene	ND		1.0		ug/L			10/30/13 16:54	1
N-Propylbenzene	ND		1.0		ug/L			10/30/13 16:54	1
Styrene	ND		0.50		ug/L			10/30/13 16:54	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			10/30/13 16:54	1

Client Sample ID: EB10252013
Date Collected: 10/25/13 10:20
Date Received: 10/25/13 15:20

Lab Sample ID: 720-53330-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/30/13 16:54	1
Tetrachloroethene	ND		0.50		ug/L			10/30/13 16:54	1
Toluene	ND		0.50		ug/L			10/30/13 16:54	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/30/13 16:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/30/13 16:54	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/30/13 16:54	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/30/13 16:54	1
Trichloroethene	ND		0.50		ug/L			10/30/13 16:54	1
Trichlorofluoromethane	ND		1.0		ug/L			10/30/13 16:54	1
1,2,3-Trichloropropane	ND		0.50		ug/L			10/30/13 16:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			10/30/13 16:54	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			10/30/13 16:54	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			10/30/13 16:54	1
Vinyl acetate	ND		10		ug/L			10/30/13 16:54	1
Vinyl chloride	ND		0.50		ug/L			10/30/13 16:54	1
Xylenes, Total	ND		1.0		ug/L			10/30/13 16:54	1
2,2-Dichloropropane	ND		0.50		ug/L			10/30/13 16:54	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/30/13 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*67 - 130*		*10/30/13 16:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*10/30/13 16:54*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/30/13 16:54*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		51		ug/L		10/31/13 11:41	11/01/13 12:45	1
Motor Oil Range Organics [C24-C36]	ND		100		ug/L		10/31/13 11:41	11/01/13 12:45	1
Stoddard Solvent Range Organics (C9-C13)	ND		51		ug/L		10/31/13 11:41	11/01/13 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 5*	*10/31/13 11:41*	*11/01/13 12:45*	*1*
p-Terphenyl	*101*		*31 - 150*	*10/31/13 11:41*	*11/01/13 12:45*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	*	0.52		ug/L		10/31/13 18:36	10/31/13 23:07	1
PCB-1221	ND		0.52		ug/L		10/31/13 18:36	10/31/13 23:07	1
PCB-1232	ND		0.52		ug/L		10/31/13 18:36	10/31/13 23:07	1
PCB-1242	ND		0.52		ug/L		10/31/13 18:36	10/31/13 23:07	1
PCB-1248	ND		0.52		ug/L		10/31/13 18:36	10/31/13 23:07	1
PCB-1254	ND		0.52		ug/L		10/31/13 18:36	10/31/13 23:07	1
PCB-1260	ND		0.52		ug/L		10/31/13 18:36	10/31/13 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*42*		*19 - 98*	*10/31/13 18:36*	*10/31/13 23:07*	*1*
DCB Decachlorobiphenyl	*28*		*10 - 122*	*10/31/13 18:36*	*10/31/13 23:07*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53330-1

Client Sample ID: EB10252013
Date Collected: 10/25/13 10:20
Date Received: 10/25/13 15:20

Lab Sample ID: 720-53330-3
Matrix: Water

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		10/25/13 19:54	10/27/13 14:47	1
Arsenic	ND		0.010		mg/L		10/25/13 19:54	10/27/13 14:47	1
Barium	ND		0.0050		mg/L		10/25/13 19:54	10/27/13 14:47	1
Beryllium	ND		0.0020		mg/L		10/25/13 19:54	10/27/13 14:47	1
Cadmium	ND		0.0025		mg/L		10/25/13 19:54	10/27/13 14:47	1
Chromium	ND		0.010		mg/L		10/25/13 19:54	10/27/13 14:47	1
Cobalt	ND		0.0020		mg/L		10/25/13 19:54	10/27/13 14:47	1
Copper	ND		0.020		mg/L		10/25/13 19:54	10/27/13 14:47	1
Lead	ND		0.0050		mg/L		10/25/13 19:54	10/27/13 14:47	1
Molybdenum	ND		0.010		mg/L		10/25/13 19:54	10/27/13 14:47	1
Nickel	ND		0.010		mg/L		10/25/13 19:54	10/27/13 14:47	1
Selenium	ND		0.020		mg/L		10/25/13 19:54	10/27/13 14:47	1
Silver	ND		0.0050		mg/L		10/25/13 19:54	10/27/13 14:47	1
Thallium	ND		0.010		mg/L		10/25/13 19:54	10/27/13 14:47	1
Vanadium	ND		0.010		mg/L		10/25/13 19:54	10/27/13 14:47	1
Zinc	ND		0.020		mg/L		10/25/13 19:54	10/27/13 14:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		10/28/13 19:28	10/29/13 12:21	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-147338/10
Matrix: Water
Analysis Batch: 147338

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			10/30/13 10:51	1
Acetone	ND		50		ug/L			10/30/13 10:51	1
Benzene	ND		0.50		ug/L			10/30/13 10:51	1
Dichlorobromomethane	ND		0.50		ug/L			10/30/13 10:51	1
Bromobenzene	ND		1.0		ug/L			10/30/13 10:51	1
Chlorobromomethane	ND		1.0		ug/L			10/30/13 10:51	1
Bromoform	ND		1.0		ug/L			10/30/13 10:51	1
Bromomethane	ND		1.0		ug/L			10/30/13 10:51	1
2-Butanone (MEK)	ND		50		ug/L			10/30/13 10:51	1
n-Butylbenzene	ND		1.0		ug/L			10/30/13 10:51	1
sec-Butylbenzene	ND		1.0		ug/L			10/30/13 10:51	1
tert-Butylbenzene	ND		1.0		ug/L			10/30/13 10:51	1
Carbon disulfide	ND		5.0		ug/L			10/30/13 10:51	1
Carbon tetrachloride	ND		0.50		ug/L			10/30/13 10:51	1
Chlorobenzene	ND		0.50		ug/L			10/30/13 10:51	1
Chloroethane	ND		1.0		ug/L			10/30/13 10:51	1
Chloroform	ND		1.0		ug/L			10/30/13 10:51	1
Chloromethane	ND		1.0		ug/L			10/30/13 10:51	1
2-Chlorotoluene	ND		0.50		ug/L			10/30/13 10:51	1
4-Chlorotoluene	ND		0.50		ug/L			10/30/13 10:51	1
Chlorodibromomethane	ND		0.50		ug/L			10/30/13 10:51	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/30/13 10:51	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/30/13 10:51	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/30/13 10:51	1
1,3-Dichloropropane	ND		1.0		ug/L			10/30/13 10:51	1
1,1-Dichloropropene	ND		0.50		ug/L			10/30/13 10:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			10/30/13 10:51	1
Ethylene Dibromide	ND		0.50		ug/L			10/30/13 10:51	1
Dibromomethane	ND		0.50		ug/L			10/30/13 10:51	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/30/13 10:51	1
1,1-Dichloroethane	ND		0.50		ug/L			10/30/13 10:51	1
1,2-Dichloroethane	ND		0.50		ug/L			10/30/13 10:51	1
1,1-Dichloroethene	ND		0.50		ug/L			10/30/13 10:51	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/30/13 10:51	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/30/13 10:51	1
1,2-Dichloropropane	ND		0.50		ug/L			10/30/13 10:51	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/30/13 10:51	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/30/13 10:51	1
Ethylbenzene	ND		0.50		ug/L			10/30/13 10:51	1
Hexachlorobutadiene	ND		1.0		ug/L			10/30/13 10:51	1
2-Hexanone	ND		50		ug/L			10/30/13 10:51	1
Isopropylbenzene	ND		0.50		ug/L			10/30/13 10:51	1
4-Isopropyltoluene	ND		1.0		ug/L			10/30/13 10:51	1
Methylene Chloride	ND		5.0		ug/L			10/30/13 10:51	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/30/13 10:51	1
Naphthalene	ND		1.0		ug/L			10/30/13 10:51	1
N-Propylbenzene	ND		1.0		ug/L			10/30/13 10:51	1
Styrene	ND		0.50		ug/L			10/30/13 10:51	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-147338/10
Matrix: Water
Analysis Batch: 147338

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			10/30/13 10:51	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/30/13 10:51	1
Tetrachloroethene	ND		0.50		ug/L			10/30/13 10:51	1
Toluene	ND		0.50		ug/L			10/30/13 10:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/30/13 10:51	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/30/13 10:51	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/30/13 10:51	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/30/13 10:51	1
Trichloroethene	ND		0.50		ug/L			10/30/13 10:51	1
Trichlorofluoromethane	ND		1.0		ug/L			10/30/13 10:51	1
1,2,3-Trichloropropane	ND		0.50		ug/L			10/30/13 10:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			10/30/13 10:51	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			10/30/13 10:51	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			10/30/13 10:51	1
Vinyl acetate	ND		10		ug/L			10/30/13 10:51	1
Vinyl chloride	ND		0.50		ug/L			10/30/13 10:51	1
Xylenes, Total	ND		1.0		ug/L			10/30/13 10:51	1
2,2-Dichloropropane	ND		0.50		ug/L			10/30/13 10:51	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/30/13 10:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*67 - 130*		*10/30/13 10:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*		*10/30/13 10:51*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/30/13 10:51*	*1*

Lab Sample ID: LCS 720-147338/6
Matrix: Water
Analysis Batch: 147338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	25.7		ug/L		103	62 - 130
Acetone	125	112		ug/L		89	26 - 180
Benzene	25.0	23.7		ug/L		95	79 - 130
Dichlorobromomethane	25.0	27.2		ug/L		109	70 - 130
Bromobenzene	25.0	24.3		ug/L		97	70 - 130
Chlorobromomethane	25.0	26.2		ug/L		105	70 - 130
Bromoform	25.0	27.9		ug/L		112	68 - 136
Bromomethane	25.0	24.0		ug/L		96	43 - 151
2-Butanone (MEK)	125	112		ug/L		89	54 - 130
n-Butylbenzene	25.0	25.1		ug/L		101	70 - 142
sec-Butylbenzene	25.0	24.4		ug/L		98	70 - 134
tert-Butylbenzene	25.0	25.0		ug/L		100	70 - 135
Carbon disulfide	25.0	25.5		ug/L		102	58 - 130
Carbon tetrachloride	25.0	29.5		ug/L		118	70 - 146
Chlorobenzene	25.0	23.9		ug/L		95	70 - 130
Chloroethane	25.0	22.3		ug/L		89	62 - 138
Chloroform	25.0	25.9		ug/L		104	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-147338/6
Matrix: Water
Analysis Batch: 147338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	20.8		ug/L		83	52 - 175
2-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130
4-Chlorotoluene	25.0	23.9		ug/L		96	70 - 130
Chlorodibromomethane	25.0	27.9		ug/L		112	70 - 145
1,2-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,3-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,4-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130
1,3-Dichloropropane	25.0	24.8		ug/L		99	70 - 130
1,1-Dichloropropene	25.0	26.0		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.9		ug/L		95	70 - 136
Ethylene Dibromide	25.0	25.9		ug/L		104	70 - 130
Dibromomethane	25.0	25.8		ug/L		103	70 - 130
Dichlorodifluoromethane	25.0	22.6		ug/L		91	34 - 132
1,1-Dichloroethane	25.0	24.3		ug/L		97	70 - 130
1,2-Dichloroethane	25.0	26.3		ug/L		105	61 - 132
1,1-Dichloroethene	25.0	23.7		ug/L		95	64 - 128
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	70 - 130
trans-1,2-Dichloroethene	25.0	23.4		ug/L		94	68 - 130
1,2-Dichloropropane	25.0	22.7		ug/L		91	70 - 130
cis-1,3-Dichloropropene	25.0	27.2		ug/L		109	70 - 130
trans-1,3-Dichloropropene	25.0	29.1		ug/L		117	70 - 140
Ethylbenzene	25.0	24.1		ug/L		96	80 - 120
Hexachlorobutadiene	25.0	24.3		ug/L		97	70 - 130
2-Hexanone	125	118		ug/L		94	60 - 164
Isopropylbenzene	25.0	25.7		ug/L		103	70 - 130
4-Isopropyltoluene	25.0	25.1		ug/L		100	70 - 130
Methylene Chloride	25.0	23.7		ug/L		95	70 - 147
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		95	58 - 130
Naphthalene	25.0	24.1		ug/L		96	70 - 130
N-Propylbenzene	25.0	23.8		ug/L		95	70 - 130
Styrene	25.0	25.4		ug/L		101	70 - 130
1,1,1,2-Tetrachloroethane	25.0	27.2		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.1		ug/L		88	70 - 130
Tetrachloroethene	25.0	26.7		ug/L		107	70 - 130
Toluene	25.0	23.2		ug/L		93	78 - 120
1,2,3-Trichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,1,1-Trichloroethane	25.0	28.6		ug/L		114	70 - 130
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	70 - 130
Trichloroethene	25.0	25.3		ug/L		101	70 - 130
Trichlorofluoromethane	25.0	26.4		ug/L		105	66 - 132
1,2,3-Trichloropropane	25.0	24.8		ug/L		99	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.9		ug/L		100	42 - 162
1,2,4-Trimethylbenzene	25.0	25.1		ug/L		101	70 - 132
1,3,5-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 130
Vinyl acetate	25.0	29.5		ug/L		118	43 - 163
Vinyl chloride	25.0	23.8		ug/L		95	54 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-147338/6
Matrix: Water
Analysis Batch: 147338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	50.0	48.5		ug/L		97	70 - 142
o-Xylene	25.0	25.1		ug/L		100	70 - 130
2,2-Dichloropropane	25.0	31.1		ug/L		125	70 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCS 720-147338/8
Matrix: Water
Analysis Batch: 147338

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	579		ug/L		116	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 720-147338/7
Matrix: Water
Analysis Batch: 147338

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	25.9		ug/L		104	62 - 130	1	20
Acetone	125	131		ug/L		105	26 - 180	16	30
Benzene	25.0	23.5		ug/L		94	79 - 130	1	20
Dichlorobromomethane	25.0	26.7		ug/L		107	70 - 130	2	20
Bromobenzene	25.0	24.4		ug/L		97	70 - 130	0	20
Chlorobromomethane	25.0	26.0		ug/L		104	70 - 130	1	20
Bromoform	25.0	29.2		ug/L		117	68 - 136	4	20
Bromomethane	25.0	24.0		ug/L		96	43 - 151	0	20
2-Butanone (MEK)	125	131		ug/L		105	54 - 130	16	20
n-Butylbenzene	25.0	25.1		ug/L		100	70 - 142	0	20
sec-Butylbenzene	25.0	24.4		ug/L		97	70 - 134	0	20
tert-Butylbenzene	25.0	25.2		ug/L		101	70 - 135	1	20
Carbon disulfide	25.0	25.1		ug/L		100	58 - 130	2	20
Carbon tetrachloride	25.0	28.7		ug/L		115	70 - 146	3	20
Chlorobenzene	25.0	24.1		ug/L		96	70 - 130	1	20
Chloroethane	25.0	23.2		ug/L		93	62 - 138	4	20
Chloroform	25.0	25.0		ug/L		100	70 - 130	4	20
Chloromethane	25.0	21.5		ug/L		86	52 - 175	3	20
2-Chlorotoluene	25.0	24.4		ug/L		97	70 - 130	1	20
4-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130	2	20
Chlorodibromomethane	25.0	27.2		ug/L		109	70 - 145	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-147338/7
Matrix: Water
Analysis Batch: 147338

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	25.0	24.4		ug/L		97	70 - 130	0	20
1,3-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130	0	20
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130	1	20
1,3-Dichloropropane	25.0	24.7		ug/L		99	70 - 130	0	20
1,1-Dichloropropene	25.0	25.8		ug/L		103	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	27.4		ug/L		110	70 - 136	14	20
Ethylene Dibromide	25.0	26.3		ug/L		105	70 - 130	1	20
Dibromomethane	25.0	25.8		ug/L		103	70 - 130	0	20
Dichlorodifluoromethane	25.0	21.9		ug/L		88	34 - 132	3	20
1,1-Dichloroethane	25.0	24.2		ug/L		97	70 - 130	1	20
1,2-Dichloroethane	25.0	25.2		ug/L		101	61 - 132	4	20
1,1-Dichloroethene	25.0	23.7		ug/L		95	64 - 128	0	20
cis-1,2-Dichloroethene	25.0	24.1		ug/L		97	70 - 130	3	20
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	68 - 130	2	20
1,2-Dichloropropane	25.0	22.7		ug/L		91	70 - 130	0	20
cis-1,3-Dichloropropene	25.0	26.9		ug/L		107	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	28.1		ug/L		113	70 - 140	4	20
Ethylbenzene	25.0	23.8		ug/L		95	80 - 120	1	20
Hexachlorobutadiene	25.0	24.6		ug/L		98	70 - 130	1	20
2-Hexanone	125	132		ug/L		106	60 - 164	12	20
Isopropylbenzene	25.0	25.5		ug/L		102	70 - 130	1	20
4-Isopropyltoluene	25.0	25.4		ug/L		102	70 - 130	1	20
Methylene Chloride	25.0	23.9		ug/L		95	70 - 147	1	20
4-Methyl-2-pentanone (MIBK)	125	130		ug/L		104	58 - 130	9	20
Naphthalene	25.0	26.1		ug/L		104	70 - 130	8	20
N-Propylbenzene	25.0	23.9		ug/L		95	70 - 130	0	20
Styrene	25.0	25.0		ug/L		100	70 - 130	1	20
1,1,1,2-Tetrachloroethane	25.0	26.7		ug/L		107	70 - 130	2	20
1,1,2,2-Tetrachloroethane	25.0	23.6		ug/L		94	70 - 130	6	20
Tetrachloroethene	25.0	26.3		ug/L		105	70 - 130	2	20
Toluene	25.0	23.2		ug/L		93	78 - 120	0	20
1,2,3-Trichlorobenzene	25.0	24.5		ug/L		98	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	26.0		ug/L		104	70 - 130	0	20
1,1,1-Trichloroethane	25.0	27.6		ug/L		110	70 - 130	4	20
1,1,2-Trichloroethane	25.0	25.6		ug/L		102	70 - 130	3	20
Trichloroethene	25.0	24.9		ug/L		100	70 - 130	2	20
Trichlorofluoromethane	25.0	25.1		ug/L		101	66 - 132	5	20
1,2,3-Trichloropropane	25.0	26.2		ug/L		105	70 - 130	5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.3		ug/L		101	42 - 162	1	20
1,2,4-Trimethylbenzene	25.0	25.1		ug/L		101	70 - 132	0	20
1,3,5-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 130	0	20
Vinyl acetate	25.0	30.5		ug/L		122	43 - 163	3	20
Vinyl chloride	25.0	23.4		ug/L		93	54 - 135	2	20
m-Xylene & p-Xylene	50.0	48.0		ug/L		96	70 - 142	1	20
o-Xylene	25.0	24.6		ug/L		98	70 - 130	2	20
2,2-Dichloropropane	25.0	30.0		ug/L		120	70 - 140	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-147338/7
Matrix: Water
Analysis Batch: 147338

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*96*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 720-147338/9
Matrix: Water
Analysis Batch: 147338

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	573		ug/L		115	62 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*94*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*72 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-147562/1-A
Matrix: Solid
Analysis Batch: 147557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 147562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		11/01/13 13:10	11/02/13 00:19	1
Acenaphthylene	ND		5.0		ug/Kg		11/01/13 13:10	11/02/13 00:19	1
Anthracene	ND		5.0		ug/Kg		11/01/13 13:10	11/02/13 00:19	1
Benzo[a]anthracene	ND		5.0		ug/Kg		11/01/13 13:10	11/02/13 00:19	1
Benzo[a]pyrene	ND		5.0		ug/Kg		11/01/13 13:10	11/02/13 00:19	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		11/01/13 13:10	11/02/13 00:19	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		11/01/13 13:10	11/02/13 00:19	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		11/01/13 13:10	11/02/13 00:19	1
Chrysene	ND		5.0		ug/Kg		11/01/13 13:10	11/02/13 00:19	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		11/01/13 13:10	11/02/13 00:19	1
Fluoranthene	ND		5.0		ug/Kg		11/01/13 13:10	11/02/13 00:19	1
Fluorene	ND		5.0		ug/Kg		11/01/13 13:10	11/02/13 00:19	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		11/01/13 13:10	11/02/13 00:19	1
Naphthalene	ND		5.0		ug/Kg		11/01/13 13:10	11/02/13 00:19	1
Phenanthrene	ND		5.0		ug/Kg		11/01/13 13:10	11/02/13 00:19	1
Pyrene	ND		5.0		ug/Kg		11/01/13 13:10	11/02/13 00:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*59*		*33 - 120*	*11/01/13 13:10*	*11/02/13 00:19*	*1*
Terphenyl-d14	*55*		*35 - 146*	*11/01/13 13:10*	*11/02/13 00:19*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCS 720-147562/2-A
Matrix: Solid
Analysis Batch: 147557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147562

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene			333	177		ug/Kg		53	49 - 120		
Acenaphthylene			333	188		ug/Kg		57	52 - 120		
Anthracene			333	192		ug/Kg		58	52 - 120		
Benzo[a]anthracene			333	226		ug/Kg		68	52 - 120		
Benzo[a]pyrene			333	206		ug/Kg		62	54 - 120		
Benzo[b]fluoranthene			333	222		ug/Kg		67	51 - 120		
Benzo[g,h,i]perylene			333	209		ug/Kg		63	48 - 120		
Benzo[k]fluoranthene			333	209		ug/Kg		63	56 - 120		
Chrysene			333	208		ug/Kg		62	40 - 120		
Dibenz(a,h)anthracene			333	210		ug/Kg		63	50 - 120		
Fluoranthene			333	205		ug/Kg		61	57 - 120		
Fluorene			333	197		ug/Kg		59	52 - 120		
Indeno[1,2,3-cd]pyrene			333	213		ug/Kg		64	48 - 120		
Naphthalene			333	183		ug/Kg		55	46 - 120		
Phenanthrene			333	189		ug/Kg		57	48 - 120		
Pyrene			333	190		ug/Kg		57	53 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*60*		*33 - 120*
Terphenyl-d14	*56*		*35 - 146*

Lab Sample ID: LCSD 720-147562/3-A
Matrix: Solid
Analysis Batch: 147557

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 147562

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			333	172		ug/Kg		52	49 - 120	3	20
Acenaphthylene			333	178		ug/Kg		54	52 - 120	5	20
Anthracene			333	185		ug/Kg		55	52 - 120	4	20
Benzo[a]anthracene			333	212		ug/Kg		64	52 - 120	7	20
Benzo[a]pyrene			333	194		ug/Kg		58	54 - 120	6	20
Benzo[b]fluoranthene			333	207		ug/Kg		62	51 - 120	7	20
Benzo[g,h,i]perylene			333	186		ug/Kg		56	48 - 120	11	20
Benzo[k]fluoranthene			333	194		ug/Kg		58	56 - 120	7	20
Chrysene			333	194		ug/Kg		58	40 - 120	7	20
Dibenz(a,h)anthracene			333	200		ug/Kg		60	50 - 120	5	20
Fluoranthene			333	196		ug/Kg		59	57 - 120	4	20
Fluorene			333	191		ug/Kg		57	52 - 120	3	20
Indeno[1,2,3-cd]pyrene			333	201		ug/Kg		60	48 - 120	6	20
Naphthalene			333	176		ug/Kg		53	46 - 120	4	20
Phenanthrene			333	183		ug/Kg		55	48 - 120	3	20
Pyrene			333	176		ug/Kg		53	53 - 120	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*58*		*33 - 120*
Terphenyl-d14	*52*		*35 - 146*

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: 720-53330-2 MS
Matrix: Solid
Analysis Batch: 147640

Client Sample ID: EX6-S14(5.0)
Prep Type: Total/NA
Prep Batch: 147562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		329	328		ug/Kg		100	33 - 120
Acenaphthylene	ND		329	317		ug/Kg		96	28 - 120
Anthracene	ND		329	322		ug/Kg		95	36 - 120
Benzo[a]anthracene	ND		329	376		ug/Kg		114	29 - 120
Benzo[a]pyrene	ND		329	333		ug/Kg		97	24 - 120
Benzo[b]fluoranthene	ND		329	336		ug/Kg		102	17 - 132
Benzo[g,h,i]perylene	ND		329	366		ug/Kg		111	21 - 120
Benzo[k]fluoranthene	ND		329	308		ug/Kg		94	35 - 120
Chrysene	ND		329	302		ug/Kg		92	29 - 120
Dibenz(a,h)anthracene	ND		329	358		ug/Kg		109	36 - 120
Fluoranthene	ND		329	324		ug/Kg		99	24 - 120
Fluorene	ND		329	333		ug/Kg		97	35 - 120
Indeno[1,2,3-cd]pyrene	ND		329	343		ug/Kg		104	20 - 126
Naphthalene	110		329	420		ug/Kg		95	32 - 120
Phenanthrene	ND		329	339		ug/Kg		97	28 - 120
Pyrene	ND		329	452	F	ug/Kg		135	24 - 123

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*73*		*33 - 120*
Terphenyl-d14	*120*		*35 - 146*

Lab Sample ID: 720-53330-2 MSD
Matrix: Solid
Analysis Batch: 147640

Client Sample ID: EX6-S14(5.0)
Prep Type: Total/NA
Prep Batch: 147562

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		329	299		ug/Kg		91	33 - 120	9	20
Acenaphthylene	ND		329	313		ug/Kg		95	28 - 120	1	20
Anthracene	ND		329	314		ug/Kg		92	36 - 120	3	20
Benzo[a]anthracene	ND		329	378		ug/Kg		115	29 - 120	1	20
Benzo[a]pyrene	ND		329	326		ug/Kg		95	24 - 120	2	20
Benzo[b]fluoranthene	ND		329	327		ug/Kg		99	17 - 132	3	20
Benzo[g,h,i]perylene	ND		329	332		ug/Kg		101	21 - 120	10	20
Benzo[k]fluoranthene	ND		329	315		ug/Kg		96	35 - 120	2	20
Chrysene	ND		329	295		ug/Kg		90	29 - 120	2	20
Dibenz(a,h)anthracene	ND		329	322		ug/Kg		98	36 - 120	11	20
Fluoranthene	ND		329	317		ug/Kg		96	24 - 120	2	20
Fluorene	ND		329	331		ug/Kg		97	35 - 120	1	20
Indeno[1,2,3-cd]pyrene	ND		329	324		ug/Kg		98	20 - 126	6	20
Naphthalene	110		329	406		ug/Kg		91	32 - 120	3	20
Phenanthrene	ND		329	335		ug/Kg		95	28 - 120	1	20
Pyrene	ND		329	448	F	ug/Kg		133	24 - 123	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*73*		*33 - 120*
Terphenyl-d14	*115*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-147447/1-A
Matrix: Solid
Analysis Batch: 147436

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 147447

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		10/31/13 09:10	11/01/13 01:52	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		10/31/13 09:10	11/01/13 01:52	1
Stoddard Solvent Range Organics (C9-C13)	ND		1.0		mg/Kg		10/31/13 09:10	11/01/13 01:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 1*	*10/31/13 09:10*	*11/01/13 01:52*	*1*
p-Terphenyl	*124*		*38 - 148*	*10/31/13 09:10*	*11/01/13 01:52*	*1*

Lab Sample ID: LCS 720-147447/2-A
Matrix: Solid
Analysis Batch: 147436

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 147447

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			83.3	66.2		mg/Kg		80	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*97*		*38 - 148*

Lab Sample ID: LCSD 720-147447/3-A
Matrix: Solid
Analysis Batch: 147436

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 147447

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.9	71.9		mg/Kg		87	36 - 112	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*98*		*38 - 148*

Lab Sample ID: MB 720-147458/1-A
Matrix: Water
Analysis Batch: 147537

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 147458

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		10/31/13 11:41	11/01/13 11:57	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		10/31/13 11:41	11/01/13 11:57	1
Stoddard Solvent Range Organics (C9-C13)	ND		50		ug/L		10/31/13 11:41	11/01/13 11:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.006*		*0 - 5*	*10/31/13 11:41*	*11/01/13 11:57*	*1*
p-Terphenyl	*88*		*31 - 150*	*10/31/13 11:41*	*11/01/13 11:57*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-147458/2-A
Matrix: Water
Analysis Batch: 147537

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 147458

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			2500	1010		ug/L		40	32 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*82*		*31 - 150*

Lab Sample ID: LCSD 720-147458/3-A
Matrix: Water
Analysis Batch: 147537

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 147458

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			2500	999		ug/L		40	32 - 119	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*80*		*31 - 150*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 720-147481/1-A
Matrix: Water
Analysis Batch: 147432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 147481

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50		ug/L		10/31/13 14:54	11/01/13 00:14	1
PCB-1221	ND		0.50		ug/L		10/31/13 14:54	11/01/13 00:14	1
PCB-1232	ND		0.50		ug/L		10/31/13 14:54	11/01/13 00:14	1
PCB-1242	ND		0.50		ug/L		10/31/13 14:54	11/01/13 00:14	1
PCB-1248	ND		0.50		ug/L		10/31/13 14:54	11/01/13 00:14	1
PCB-1254	ND		0.50		ug/L		10/31/13 14:54	11/01/13 00:14	1
PCB-1260	ND		0.50		ug/L		10/31/13 14:54	11/01/13 00:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*27*		*19 - 98*	*10/31/13 14:54*	*11/01/13 00:14*	*1*
DCB Decachlorobiphenyl	*65*		*10 - 122*	*10/31/13 14:54*	*11/01/13 00:14*	*1*

Lab Sample ID: LCS 720-147481/2-A
Matrix: Water
Analysis Batch: 147432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147481

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			4.00	1.66		ug/L		42	40 - 115		
PCB-1260			4.00	2.46		ug/L		62	48 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*28*		*19 - 98*
DCB Decachlorobiphenyl	*58*		*10 - 122*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 720-147481/3-A
Matrix: Water
Analysis Batch: 147432

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 147481

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			4.00	2.08	*	ug/L		52	40 - 115	22	20
PCB-1260			4.00	2.68		ug/L		67	48 - 115	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*36*		*19 - 98*
DCB Decachlorobiphenyl	*62*		*10 - 122*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-147090/1-A
Matrix: Water
Analysis Batch: 147151

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 147090

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		10/25/13 19:53	10/27/13 13:38	1
Arsenic	ND		0.010		mg/L		10/25/13 19:53	10/27/13 13:38	1
Barium	ND		0.0050		mg/L		10/25/13 19:53	10/27/13 13:38	1
Beryllium	ND		0.0020		mg/L		10/25/13 19:53	10/27/13 13:38	1
Cadmium	ND		0.0025		mg/L		10/25/13 19:53	10/27/13 13:38	1
Chromium	ND		0.010		mg/L		10/25/13 19:53	10/27/13 13:38	1
Cobalt	ND		0.0020		mg/L		10/25/13 19:53	10/27/13 13:38	1
Copper	ND		0.020		mg/L		10/25/13 19:53	10/27/13 13:38	1
Lead	ND		0.0050		mg/L		10/25/13 19:53	10/27/13 13:38	1
Molybdenum	ND		0.010		mg/L		10/25/13 19:53	10/27/13 13:38	1
Nickel	ND		0.010		mg/L		10/25/13 19:53	10/27/13 13:38	1
Selenium	ND		0.020		mg/L		10/25/13 19:53	10/27/13 13:38	1
Silver	ND		0.0050		mg/L		10/25/13 19:53	10/27/13 13:38	1
Thallium	ND		0.010		mg/L		10/25/13 19:53	10/27/13 13:38	1
Vanadium	ND		0.010		mg/L		10/25/13 19:53	10/27/13 13:38	1
Zinc	ND		0.020		mg/L		10/25/13 19:53	10/27/13 13:38	1

Lab Sample ID: LCS 720-147090/2-A
Matrix: Water
Analysis Batch: 147151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147090

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony			1.00	0.940		mg/L		94	80 - 120
Arsenic			1.00	0.934		mg/L		93	80 - 120
Barium			1.00	0.964		mg/L		96	80 - 120
Beryllium			1.00	0.924		mg/L		92	80 - 120
Cadmium			1.00	0.982		mg/L		98	80 - 120
Chromium			1.00	0.976		mg/L		98	80 - 120
Cobalt			1.00	0.967		mg/L		97	80 - 120
Copper			1.00	0.974		mg/L		97	80 - 120
Lead			1.00	0.972		mg/L		97	80 - 120
Molybdenum			1.00	0.978		mg/L		98	80 - 120
Nickel			1.00	0.972		mg/L		97	80 - 120
Selenium			1.00	0.917		mg/L		92	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-147090/2-A
Matrix: Water
Analysis Batch: 147151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147090

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.500	0.509		mg/L		102	80 - 120
Thallium	1.00	0.977		mg/L		98	80 - 120
Vanadium	1.00	0.969		mg/L		97	80 - 120
Zinc	1.00	0.949		mg/L		95	80 - 120

Lab Sample ID: LCSD 720-147090/3-A
Matrix: Water
Analysis Batch: 147151

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 147090

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.00	0.957		mg/L		96	80 - 120	2	20
Arsenic	1.00	0.950		mg/L		95	80 - 120	2	20
Barium	1.00	0.971		mg/L		97	80 - 120	1	20
Beryllium	1.00	0.928		mg/L		93	80 - 120	0	20
Cadmium	1.00	0.999		mg/L		100	80 - 120	2	20
Chromium	1.00	0.997		mg/L		100	80 - 120	2	20
Cobalt	1.00	0.981		mg/L		98	80 - 120	2	20
Copper	1.00	0.995		mg/L		99	80 - 120	2	20
Lead	1.00	0.989		mg/L		99	80 - 120	2	20
Molybdenum	1.00	1.00		mg/L		100	80 - 120	2	20
Nickel	1.00	0.987		mg/L		99	80 - 120	2	20
Selenium	1.00	0.934		mg/L		93	80 - 120	2	20
Silver	0.500	0.523		mg/L		105	80 - 120	3	20
Thallium	1.00	0.994		mg/L		99	80 - 120	2	20
Vanadium	1.00	0.997		mg/L		100	80 - 120	3	20
Zinc	1.00	0.963		mg/L		96	80 - 120	2	20

Lab Sample ID: 720-53330-3 MS
Matrix: Water
Analysis Batch: 147151

Client Sample ID: EB10252013
Prep Type: Total/NA
Prep Batch: 147090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1.00	0.930		mg/L		93	75 - 125
Arsenic	ND		1.00	0.928		mg/L		93	75 - 125
Barium	ND		1.00	1.01		mg/L		101	75 - 125
Beryllium	ND		1.00	0.964		mg/L		96	75 - 125
Cadmium	ND		1.00	0.979		mg/L		98	75 - 125
Chromium	ND		1.00	0.979		mg/L		98	75 - 125
Cobalt	ND		1.00	0.962		mg/L		96	75 - 125
Copper	ND		1.00	0.978		mg/L		98	75 - 125
Lead	ND		1.00	0.968		mg/L		97	75 - 125
Molybdenum	ND		1.00	0.977		mg/L		97	75 - 125
Nickel	ND		1.00	0.968		mg/L		97	75 - 125
Selenium	ND		1.00	0.913		mg/L		91	75 - 125
Silver	ND		0.500	0.515		mg/L		103	75 - 125
Thallium	ND		1.00	0.972		mg/L		97	75 - 125
Vanadium	ND		1.00	0.978		mg/L		98	75 - 125
Zinc	ND		1.00	0.942		mg/L		94	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-53330-3 MSD
Matrix: Water
Analysis Batch: 147151

Client Sample ID: EB10252013
Prep Type: Total/NA
Prep Batch: 147090

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1.00	0.953		mg/L		95	75 - 125	2	20
Arsenic	ND		1.00	0.943		mg/L		94	75 - 125	2	20
Barium	ND		1.00	0.979		mg/L		98	75 - 125	3	20
Beryllium	ND		1.00	0.932		mg/L		93	75 - 125	3	20
Cadmium	ND		1.00	0.995		mg/L		100	75 - 125	2	20
Chromium	ND		1.00	0.989		mg/L		99	75 - 125	1	20
Cobalt	ND		1.00	0.981		mg/L		98	75 - 125	2	20
Copper	ND		1.00	0.985		mg/L		98	75 - 125	1	20
Lead	ND		1.00	0.985		mg/L		99	75 - 125	2	20
Molybdenum	ND		1.00	0.998		mg/L		99	75 - 125	2	20
Nickel	ND		1.00	0.986		mg/L		99	75 - 125	2	20
Selenium	ND		1.00	0.930		mg/L		93	75 - 125	2	20
Silver	ND		0.500	0.512		mg/L		102	75 - 125	1	20
Thallium	ND		1.00	0.989		mg/L		99	75 - 125	2	20
Vanadium	ND		1.00	0.985		mg/L		98	75 - 125	1	20
Zinc	ND		1.00	0.963		mg/L		96	75 - 125	2	20

Lab Sample ID: MB 720-147332/1-A
Matrix: Solid
Analysis Batch: 147420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 147332

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Arsenic	ND		1.0		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Barium	ND		0.50		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Beryllium	ND		0.10		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Cadmium	ND		0.13		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Chromium	ND		0.50		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Cobalt	ND		0.20		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Copper	ND		1.5		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Lead	ND		0.50		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Molybdenum	ND		0.50		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Nickel	ND		0.50		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Selenium	ND		1.0		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Silver	ND		0.25		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Thallium	ND		0.50		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Vanadium	ND		0.50		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Zinc	ND		1.5		mg/Kg		10/29/13 22:04	10/30/13 18:01	1

Lab Sample ID: LCS 720-147332/2-A
Matrix: Solid
Analysis Batch: 147420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147332

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	44.0		mg/Kg		88	80 - 120
Arsenic	50.0	44.9		mg/Kg		90	80 - 120
Barium	50.0	45.7		mg/Kg		91	80 - 120
Beryllium	50.0	44.6		mg/Kg		89	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-147332/2-A
Matrix: Solid
Analysis Batch: 147420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147332

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	46.1		mg/Kg		92	80 - 120
Chromium	50.0	46.4		mg/Kg		93	80 - 120
Cobalt	50.0	46.7		mg/Kg		93	80 - 120
Copper	50.0	46.1		mg/Kg		92	80 - 120
Lead	50.0	45.9		mg/Kg		92	80 - 120
Molybdenum	50.0	47.0		mg/Kg		94	80 - 120
Nickel	50.0	46.1		mg/Kg		92	80 - 120
Selenium	50.0	43.3		mg/Kg		87	80 - 120
Silver	25.0	23.3		mg/Kg		93	80 - 120
Thallium	50.0	46.0		mg/Kg		92	80 - 120
Vanadium	50.0	45.3		mg/Kg		91	80 - 120
Zinc	50.0	45.8		mg/Kg		92	80 - 120

Lab Sample ID: LCSD 720-147332/3-A
Matrix: Solid
Analysis Batch: 147420

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 147332

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	44.4		mg/Kg		89	80 - 120	1	20
Arsenic	50.0	45.0		mg/Kg		90	80 - 120	0	20
Barium	50.0	45.6		mg/Kg		91	80 - 120	0	20
Beryllium	50.0	44.6		mg/Kg		89	80 - 120	0	20
Cadmium	50.0	45.9		mg/Kg		92	80 - 120	0	20
Chromium	50.0	46.2		mg/Kg		92	80 - 120	0	20
Cobalt	50.0	46.8		mg/Kg		94	80 - 120	0	20
Copper	50.0	45.9		mg/Kg		92	80 - 120	0	20
Lead	50.0	45.9		mg/Kg		92	80 - 120	0	20
Molybdenum	50.0	47.0		mg/Kg		94	80 - 120	0	20
Nickel	50.0	46.1		mg/Kg		92	80 - 120	0	20
Selenium	50.0	43.2		mg/Kg		86	80 - 120	0	20
Silver	25.0	23.2		mg/Kg		93	80 - 120	0	20
Thallium	50.0	45.9		mg/Kg		92	80 - 120	0	20
Vanadium	50.0	45.1		mg/Kg		90	80 - 120	1	20
Zinc	50.0	45.7		mg/Kg		91	80 - 120	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-147212/1-A
Matrix: Water
Analysis Batch: 147266

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 147212

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		10/28/13 19:28	10/29/13 12:03	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-147212/2-A
Matrix: Water
Analysis Batch: 147266

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147212

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.0100	0.00990		mg/L		99	85 - 115		

Lab Sample ID: LCSD 720-147212/3-A
Matrix: Water
Analysis Batch: 147266

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 147212

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.0100	0.00946		mg/L		95	85 - 115	5	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-147423/1-A
Matrix: Solid
Analysis Batch: 147475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 147423

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		10/30/13 21:24	10/31/13 12:31	1

Lab Sample ID: LCS 720-147423/2-A
Matrix: Solid
Analysis Batch: 147475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147423

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.933		mg/Kg		112	80 - 120		

Lab Sample ID: LCSD 720-147423/3-A
Matrix: Solid
Analysis Batch: 147475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 147423

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.833	0.883		mg/Kg		106	80 - 120	6	20

GC/MS VOA

Analysis Batch: 147338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53330-3	EB10252013	Total/NA	Water	8260B	
LCS 720-147338/6	Lab Control Sample	Total/NA	Water	8260B	
LCS 720-147338/8	Lab Control Sample	Total/NA	Water	8260B	
LCSD 720-147338/7	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 720-147338/9	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 720-147338/10	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Analysis Batch: 147557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-147562/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	147562
LCSD 720-147562/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	147562
MB 720-147562/1-A	Method Blank	Total/NA	Solid	8270C SIM	147562

Prep Batch: 147562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53330-2	EX6-S14(5.0)	Total/NA	Solid	3546	
720-53330-2 MS	EX6-S14(5.0)	Total/NA	Solid	3546	
720-53330-2 MSD	EX6-S14(5.0)	Total/NA	Solid	3546	
LCS 720-147562/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-147562/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-147562/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 147640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53330-2	EX6-S14(5.0)	Total/NA	Solid	8270C SIM	147562
720-53330-2 MS	EX6-S14(5.0)	Total/NA	Solid	8270C SIM	147562
720-53330-2 MSD	EX6-S14(5.0)	Total/NA	Solid	8270C SIM	147562

GC Semi VOA

Analysis Batch: 147432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-147481/2-A	Lab Control Sample	Total/NA	Water	8082	147481
LCSD 720-147481/3-A	Lab Control Sample Dup	Total/NA	Water	8082	147481
MB 720-147481/1-A	Method Blank	Total/NA	Water	8082	147481

Analysis Batch: 147433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53330-3	EB10252013	Total/NA	Water	8082	147481

Analysis Batch: 147436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53330-1	EX5-S14(5.0)	Silica Gel Cleanup	Solid	8015B	147447
720-53330-2	EX6-S14(5.0)	Silica Gel Cleanup	Solid	8015B	147447
LCS 720-147447/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	147447
LCSD 720-147447/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	147447
MB 720-147447/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	147447

GC Semi VOA (Continued)

Prep Batch: 147447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53330-1	EX5-S14(5.0)	Silica Gel Cleanup	Solid	3546	
720-53330-2	EX6-S14(5.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-147447/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-147447/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-147447/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Prep Batch: 147458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53330-3	EB10252013	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-147458/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-147458/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 720-147458/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

Prep Batch: 147481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53330-3	EB10252013	Total/NA	Water	3510C	
LCS 720-147481/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-147481/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-147481/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 147537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53330-3	EB10252013	Silica Gel Cleanup	Water	8015B	147458
LCS 720-147458/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	147458
LCSD 720-147458/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	147458
MB 720-147458/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	147458

Metals

Prep Batch: 147090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53330-3	EB10252013	Total/NA	Water	3010A	
720-53330-3 MS	EB10252013	Total/NA	Water	3010A	
720-53330-3 MSD	EB10252013	Total/NA	Water	3010A	
LCS 720-147090/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 720-147090/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 720-147090/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 147151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53330-3	EB10252013	Total/NA	Water	6010B	147090
720-53330-3 MS	EB10252013	Total/NA	Water	6010B	147090
720-53330-3 MSD	EB10252013	Total/NA	Water	6010B	147090
LCS 720-147090/2-A	Lab Control Sample	Total/NA	Water	6010B	147090
LCSD 720-147090/3-A	Lab Control Sample Dup	Total/NA	Water	6010B	147090
MB 720-147090/1-A	Method Blank	Total/NA	Water	6010B	147090

Prep Batch: 147212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53330-3	EB10252013	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 147212 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-147212/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 720-147212/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
MB 720-147212/1-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 147266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53330-3	EB10252013	Total/NA	Water	7470A	147212
LCS 720-147212/2-A	Lab Control Sample	Total/NA	Water	7470A	147212
LCSD 720-147212/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	147212
MB 720-147212/1-A	Method Blank	Total/NA	Water	7470A	147212

Prep Batch: 147332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53330-2	EX6-S14(5.0)	Total/NA	Solid	3050B	
LCS 720-147332/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-147332/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-147332/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 147420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53330-2	EX6-S14(5.0)	Total/NA	Solid	6010B	147332
LCS 720-147332/2-A	Lab Control Sample	Total/NA	Solid	6010B	147332
LCSD 720-147332/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	147332
MB 720-147332/1-A	Method Blank	Total/NA	Solid	6010B	147332

Prep Batch: 147423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53330-2	EX6-S14(5.0)	Total/NA	Solid	7471A	
LCS 720-147423/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-147423/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-147423/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 147475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53330-2	EX6-S14(5.0)	Total/NA	Solid	7471A	147423
LCS 720-147423/2-A	Lab Control Sample	Total/NA	Solid	7471A	147423
LCSD 720-147423/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	147423
MB 720-147423/1-A	Method Blank	Total/NA	Solid	7471A	147423

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53330-1

Client Sample ID: EX5-S14(5.0)

Lab Sample ID: 720-53330-1

Date Collected: 10/25/13 08:30

Matrix: Solid

Date Received: 10/25/13 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			147447	10/31/13 09:10	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		50	147436	10/31/13 21:49	JL	TAL PLS

Client Sample ID: EX6-S14(5.0)

Lab Sample ID: 720-53330-2

Date Collected: 10/25/13 08:40

Matrix: Solid

Date Received: 10/25/13 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			147562	11/01/13 13:10	MRP	TAL PLS
Total/NA	Analysis	8270C SIM		5	147640	11/04/13 13:22	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			147447	10/31/13 09:10	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	147436	10/31/13 22:14	JL	TAL PLS
Total/NA	Prep	3050B			147332	10/29/13 22:04	CTD	TAL PLS
Total/NA	Analysis	6010B		4	147420	10/30/13 20:05	SLK	TAL PLS
Total/NA	Prep	7471A			147423	10/30/13 21:24	CTD	TAL PLS
Total/NA	Analysis	7471A		1	147475	10/31/13 12:46	EFH	TAL PLS

Client Sample ID: EB10252013

Lab Sample ID: 720-53330-3

Date Collected: 10/25/13 10:20

Matrix: Water

Date Received: 10/25/13 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	147338	10/30/13 16:54	ASC	TAL PLS
Total/NA	Prep	3510C			147481	10/31/13 18:36	NDU	TAL PLS
Total/NA	Analysis	8082		1	147433	10/31/13 23:07	JZT	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			147458	10/31/13 11:41	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	147537	11/01/13 12:45	JL	TAL PLS
Total/NA	Prep	3010A			147090	10/25/13 19:54	EFH	TAL PLS
Total/NA	Analysis	6010B		1	147151	10/27/13 14:47	EFH	TAL PLS
Total/NA	Prep	7470A			147212	10/28/13 19:28	ASB	TAL PLS
Total/NA	Analysis	7470A		1	147266	10/29/13 12:21	EFH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53330-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53330-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53330-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-53330-1	EX5-S14(5.0)	Solid	10/25/13 08:30	10/25/13 15:20
720-53330-2	EX6-S14(5.0)	Solid	10/25/13 08:40	10/25/13 15:20
720-53330-3	EB10252013	Water	10/25/13 10:20	10/25/13 15:20

TestAmerica
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TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 149629

720-53330

Date 10/25/13 (T.) Page 1 of 1

11/5/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St., Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT, BSM
Attn: Accounts Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) X EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B X Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel (Standard Water) X Diesel X Motor Oil X Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C X 8270C SIM	Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total	Pesticides ☐ EPA 8081 PCBs X EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
Ex5-S14-(5.0)	10/25/13	0830	Soil	unp.				X																	1
Ex6-S14 (5.0)	10/25/13	0840	Soil	unp.				X		X			X												1
EB10252013	10/25/13	1020	water	HCl & HNO_3	X		X	X		X		X	X												10

Page 34 of 35

Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: #39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 1.9°C

TAT: 10 Day | 5 Day (X) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by: _____ Time: 1520
Signature
Brenden J. Mulholland 10/25/13
Printed Name Date
Haley & Aldrich
Company

2) Relinquished by:
Signature Time
Printed Name Date
Company

720-53330 Chain of Custody

Time
Date
Company

1) Received by: _____ 1520
Signature Time
T. Bullock 10/25/13
Printed Name Date
TA
Company

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by:
Signature Time
Printed Name Date
Company

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-53330-1

Login Number: 53330

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-53473-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz

Authorized for release by:
11/6/2013 5:12:05 PM

Dimple Sharma, Project Manager I
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-53473-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-53473-1

Comments
No additional comments.

Receipt
The samples were received on 11/1/2013 4:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 3.0º C.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53473-1

Client Sample ID: EQUIPMENTBLANK2013-11-01 — Lab Sample ID: 720-53473-1

No Detections.

Client Sample ID: TS-BA — Lab Sample ID: 720-53473-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	25		1.0		mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	140		50		mg/Kg	1		8015B	Total/NA

Client Sample ID: TS-BB — Lab Sample ID: 720-53473-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	33		3.0		mg/Kg	3		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	220		150		mg/Kg	3		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53473-1

Client Sample ID: EQUIPMENTBLANK2013-11-01
Date Collected: 11/01/13 15:15
Date Received: 11/01/13 16:20

Lab Sample ID: 720-53473-1
Matrix: Water

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		51		ug/L		11/04/13 15:00	11/04/13 21:52	1
Motor Oil Range Organics [C24-C36]	ND		100		ug/L		11/04/13 15:00	11/04/13 21:52	1
Stoddard Solvent Range Organics (C9-C13)	ND		51		ug/L		11/04/13 15:00	11/04/13 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*112*		*23 - 156*	*11/04/13 15:00*	*11/04/13 21:52*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53473-1

Client Sample ID: TS-BA
Date Collected: 11/01/13 13:45
Date Received: 11/01/13 16:20

Lab Sample ID: 720-53473-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	25		1.0		mg/Kg		11/05/13 09:28	11/05/13 17:20	1
Motor Oil Range Organics [C24-C36]	140		50		mg/Kg		11/05/13 09:28	11/05/13 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*94*		*40 - 130*	*11/05/13 09:28*	*11/05/13 17:20*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53473-1

Client Sample ID: TS-BB
Date Collected: 11/01/13 13:50
Date Received: 11/01/13 16:20

Lab Sample ID: 720-53473-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	33		3.0		mg/Kg		11/05/13 09:28	11/06/13 10:06	3
Motor Oil Range Organics [C24-C36]	220		150		mg/Kg		11/05/13 09:28	11/06/13 10:06	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*90*		*40 - 130*	*11/05/13 09:28*	*11/06/13 10:06*	*3*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-147658/1-A
Matrix: Water
Analysis Batch: 147624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 147658

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		11/04/13 14:42	11/04/13 23:54	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		11/04/13 14:42	11/04/13 23:54	1
Stoddard Solvent Range Organics (C9-C13)	ND		50		ug/L		11/04/13 14:42	11/04/13 23:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*117*		*23 - 156*	*11/04/13 14:42*	*11/04/13 23:54*	*1*

Lab Sample ID: LCS 720-147658/2-A
Matrix: Water
Analysis Batch: 147624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147658

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2500	1320		ug/L		53	34 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*79*		*23 - 156*

Lab Sample ID: LCSD 720-147658/3-A
Matrix: Water
Analysis Batch: 147624

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 147658

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2500	1150		ug/L		46	34 - 115	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*75*		*23 - 156*

Lab Sample ID: MB 720-147721/1-A
Matrix: Solid
Analysis Batch: 147715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 147721

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		11/05/13 09:28	11/05/13 19:07	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/05/13 09:28	11/05/13 19:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*110*		*40 - 130*	*11/05/13 09:28*	*11/05/13 19:07*	*1*

Lab Sample ID: LCS 720-147721/2-A
Matrix: Solid
Analysis Batch: 147715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147721

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.3	78.0		mg/Kg		94	50 - 150

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-147721/2-A
Matrix: Solid
Analysis Batch: 147715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147721

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*86*		*40 - 130*

Lab Sample ID: LCSD 720-147721/3-A
Matrix: Solid
Analysis Batch: 147715

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 147721

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			83.3	78.5		mg/Kg		94	50 - 150	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	*105*		*40 - 130*

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53473-1

GC Semi VOA

Analysis Batch: 147624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53473-1	EQUIPMENTBLANK2013-11-01	Total/NA	Water	8015B	147658
LCS 720-147658/2-A	Lab Control Sample	Total/NA	Water	8015B	147658
LCSD 720-147658/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	147658
MB 720-147658/1-A	Method Blank	Total/NA	Water	8015B	147658

Prep Batch: 147658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53473-1	EQUIPMENTBLANK2013-11-01	Total/NA	Water	3510C	
LCS 720-147658/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-147658/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-147658/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 147710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53473-2	TS-BA	Total/NA	Solid	8015B	147721

Analysis Batch: 147715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-147721/2-A	Lab Control Sample	Total/NA	Solid	8015B	147721
LCSD 720-147721/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	147721
MB 720-147721/1-A	Method Blank	Total/NA	Solid	8015B	147721

Prep Batch: 147721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53473-2	TS-BA	Total/NA	Solid	3546	
720-53473-3	TS-BB	Total/NA	Solid	3546	
LCS 720-147721/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-147721/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-147721/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 147790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53473-3	TS-BB	Total/NA	Solid	8015B	147721

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53473-1

Client Sample ID: EQUIPMENTBLANK2013-11-01

Lab Sample ID: 720-53473-1

Date Collected: 11/01/13 15:15

Matrix: Water

Date Received: 11/01/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			147658	11/04/13 15:00	DFR	TAL PLS
Total/NA	Analysis	8015B		1	147624	11/04/13 21:52	JL	TAL PLS

Client Sample ID: TS-BA

Lab Sample ID: 720-53473-2

Date Collected: 11/01/13 13:45

Matrix: Solid

Date Received: 11/01/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			147721	11/05/13 09:28	NVP	TAL PLS
Total/NA	Analysis	8015B		1	147710	11/05/13 17:20	JL	TAL PLS

Client Sample ID: TS-BB

Lab Sample ID: 720-53473-3

Date Collected: 11/01/13 13:50

Matrix: Solid

Date Received: 11/01/13 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			147721	11/05/13 09:28	NVP	TAL PLS
Total/NA	Analysis	8015B		3	147790	11/06/13 10:06	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53473-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53473-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53473-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-53473-1	EQUIPMENTBLANK2013-11-01	Water	11/01/13 15:15	11/01/13 16:20
720-53473-2	TS-BA	Solid	11/01/13 13:45	11/01/13 16:20
720-53473-3	TS-BB	Solid	11/01/13 13:50	11/01/13 16:20

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: ~~39792~~ - 149770

720-53473

Date 11/1/2013 Page 1 of 2

11/6/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St. Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT, ~~SSM~~ JR
Attn: Accounts Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☒ Motor Oil ☒ Other SS	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ____	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ____	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
Equipment Blank 2013-11-01	11-1-13	15:15	water	none				X																		1

720-53473 Chain of Custody

Page 16 of 18

Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: # 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers: 2
Head Space:
Temp: 2.0 °C

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1620	Signature: Time:	Signature: Time:
Printed Name: Vincent Tikka Date: 11/1/13	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1620	Signature: Time:	Signature: Time:
Printed Name: Justin Gonzales Date: 11/1/13	Printed Name: Date:	Printed Name: Date:
Company: TAP	Company:	Company:

Rev.10/2012

TestAmerica
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TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: ~~39792~~ 149770

720-53473

Date 11/1/13 Page 2 of 2

11/6/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St., Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT, ~~BSM~~ JR
Attn: Accounts Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
TS-BA	11-1-13	1345	Soil	ICE				X																	1
TS-BB	11-1-13	1350	↓	↓				X																	1

Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: # 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers: 2
Head Space:
Temp: 3.0°C

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1620	Signature: Time:	Signature: Time:
Printed Name: Vincent T. Lotta Date: 11/1/13	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1620	Signature: Time:	Signature: Time:
Printed Name: Justin Gonzales Date: 11/1/13	Printed Name: Date:	Printed Name: Date:
Company: TAP	Company:	Company:

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-53473-1

Login Number: 53473

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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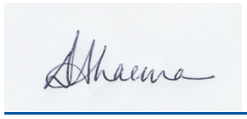
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-53674-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz



Authorized for release by:
11/18/2013 3:45:11 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53674-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53674-1

Job ID: 720-53674-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-53674-1

Comments
No additional comments.

Receipt
The samples were received on 11/11/2013 5:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: EX7-S12 (3.0) (720-53674-2), EX7-S13 (3.0) (720-53674-3).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53674-1

Client Sample ID: EX7-S11 (3.0) — Lab Sample ID: 720-53674-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.9		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX7-S12 (3.0) — Lab Sample ID: 720-53674-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2700		50		mg/Kg	50		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	6100		2500		mg/Kg	50		8015B	Silica Gel Cleanup

Client Sample ID: EX7-S13 (3.0) — Lab Sample ID: 720-53674-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	490		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1900		990		mg/Kg	20		8015B	Silica Gel Cleanup

Client Sample ID: EX7-S14 (3.0) — Lab Sample ID: 720-53674-4

No Detections.

Client Sample ID: EX7-S15 (3.0) — Lab Sample ID: 720-53674-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.3		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX7-S16 (3.0) — Lab Sample ID: 720-53674-6

No Detections.

Client Sample ID: EX7-S17 (3.0) — Lab Sample ID: 720-53674-7

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53674-1

Client Sample ID: EX7-S11 (3.0)
Date Collected: 11/11/13 13:40
Date Received: 11/11/13 17:15

Lab Sample ID: 720-53674-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.9**		0.99		mg/Kg		11/14/13 08:43	11/15/13 19:43	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/14/13 08:43	11/15/13 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.006*		*0 - 1*	*11/14/13 08:43*	*11/15/13 19:43*	*1*
p-Terphenyl	*92*		*38 - 148*	*11/14/13 08:43*	*11/15/13 19:43*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53674-1

Client Sample ID: EX7-S12 (3.0)
Date Collected: 11/11/13 13:45
Date Received: 11/11/13 17:15

Lab Sample ID: 720-53674-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2700		50		mg/Kg		11/14/13 08:43	11/16/13 12:32	50
Motor Oil Range Organics [C24-C36]	6100		2500		mg/Kg		11/14/13 08:43	11/16/13 12:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*11/14/13 08:43*	*11/16/13 12:32*	*50*
p-Terphenyl	*0*	*X D*	*38 - 148*	*11/14/13 08:43*	*11/16/13 12:32*	*50*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53674-1

Client Sample ID: EX7-S13 (3.0)
Date Collected: 11/11/13 13:50
Date Received: 11/11/13 17:15

Lab Sample ID: 720-53674-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	490		20		mg/Kg		11/14/13 08:43	11/18/13 10:39	20
Motor Oil Range Organics [C24-C36]	1900		990		mg/Kg		11/14/13 08:43	11/18/13 10:39	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*11/14/13 08:43*	*11/18/13 10:39*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*11/14/13 08:43*	*11/18/13 10:39*	*20*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53674-1

Client Sample ID: EX7-S14 (3.0)
Date Collected: 11/11/13 13:55
Date Received: 11/11/13 17:15

Lab Sample ID: 720-53674-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		11/14/13 08:43	11/15/13 19:19	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/14/13 08:43	11/15/13 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*11/14/13 08:43*	*11/15/13 19:19*	*1*
p-Terphenyl	*109*		*38 - 148*	*11/14/13 08:43*	*11/15/13 19:19*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53674-1

Client Sample ID: EX7-S15 (3.0)
Date Collected: 11/11/13 14:00
Date Received: 11/11/13 17:15

Lab Sample ID: 720-53674-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.3**		1.0		mg/Kg		11/14/13 08:43	11/16/13 12:08	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/14/13 08:43	11/16/13 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*11/14/13 08:43*	*11/16/13 12:08*	*1*
p-Terphenyl	*98*		*38 - 148*	*11/14/13 08:43*	*11/16/13 12:08*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53674-1

Client Sample ID: EX7-S16 (3.0)
Date Collected: 11/11/13 14:05
Date Received: 11/11/13 17:15

Lab Sample ID: 720-53674-6
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		11/14/13 08:43	11/15/13 20:32	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/14/13 08:43	11/15/13 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*11/14/13 08:43*	*11/15/13 20:32*	*1*
p-Terphenyl	*114*		*38 - 148*	*11/14/13 08:43*	*11/15/13 20:32*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53674-1

Client Sample ID: EX7-S17 (3.0)
Date Collected: 11/11/13 14:10
Date Received: 11/11/13 17:15

Lab Sample ID: 720-53674-7
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		11/14/13 08:43	11/15/13 20:56	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/14/13 08:43	11/15/13 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*11/14/13 08:43*	*11/15/13 20:56*	*1*
p-Terphenyl	*111*		*38 - 148*	*11/14/13 08:43*	*11/15/13 20:56*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53674-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-148298/1-A
Matrix: Solid
Analysis Batch: 148282

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 148298

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		11/14/13 08:43	11/15/13 05:49	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/14/13 08:43	11/15/13 05:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*11/14/13 08:43*	*11/15/13 05:49*	*1*
p-Terphenyl	*105*		*38 - 148*	*11/14/13 08:43*	*11/15/13 05:49*	*1*

Lab Sample ID: LCS 720-148298/2-A
Matrix: Solid
Analysis Batch: 148282

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 148298

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.6	49.1		mg/Kg		59	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*101*		*38 - 148*

Lab Sample ID: LCSD 720-148298/3-A
Matrix: Solid
Analysis Batch: 148282

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 148298

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			83.3	49.5		mg/Kg		59	36 - 112	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*103*		*38 - 148*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53674-1

GC Semi VOA

Analysis Batch: 148282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-148298/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	148298
LCSD 720-148298/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	148298
MB 720-148298/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	148298

Prep Batch: 148298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53674-1	EX7-S11 (3.0)	Silica Gel Cleanup	Solid	3546	
720-53674-2	EX7-S12 (3.0)	Silica Gel Cleanup	Solid	3546	
720-53674-3	EX7-S13 (3.0)	Silica Gel Cleanup	Solid	3546	
720-53674-4	EX7-S14 (3.0)	Silica Gel Cleanup	Solid	3546	
720-53674-5	EX7-S15 (3.0)	Silica Gel Cleanup	Solid	3546	
720-53674-6	EX7-S16 (3.0)	Silica Gel Cleanup	Solid	3546	
720-53674-7	EX7-S17 (3.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-148298/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-148298/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-148298/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 148366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53674-6	EX7-S16 (3.0)	Silica Gel Cleanup	Solid	8015B	148298
720-53674-7	EX7-S17 (3.0)	Silica Gel Cleanup	Solid	8015B	148298

Analysis Batch: 148367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53674-1	EX7-S11 (3.0)	Silica Gel Cleanup	Solid	8015B	148298
720-53674-4	EX7-S14 (3.0)	Silica Gel Cleanup	Solid	8015B	148298

Analysis Batch: 148443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53674-5	EX7-S15 (3.0)	Silica Gel Cleanup	Solid	8015B	148298

Analysis Batch: 148444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53674-2	EX7-S12 (3.0)	Silica Gel Cleanup	Solid	8015B	148298

Analysis Batch: 148466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53674-3	EX7-S13 (3.0)	Silica Gel Cleanup	Solid	8015B	148298

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53674-1

Client Sample ID: EX7-S11 (3.0)

Lab Sample ID: 720-53674-1

Date Collected: 11/11/13 13:40

Matrix: Solid

Date Received: 11/11/13 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			148298	11/14/13 08:43	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	148367	11/15/13 19:43	JL	TAL PLS

Client Sample ID: EX7-S12 (3.0)

Lab Sample ID: 720-53674-2

Date Collected: 11/11/13 13:45

Matrix: Solid

Date Received: 11/11/13 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			148298	11/14/13 08:43	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		50	148444	11/16/13 12:32	JL	TAL PLS

Client Sample ID: EX7-S13 (3.0)

Lab Sample ID: 720-53674-3

Date Collected: 11/11/13 13:50

Matrix: Solid

Date Received: 11/11/13 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			148298	11/14/13 08:43	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	148466	11/18/13 10:39	JL	TAL PLS

Client Sample ID: EX7-S14 (3.0)

Lab Sample ID: 720-53674-4

Date Collected: 11/11/13 13:55

Matrix: Solid

Date Received: 11/11/13 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			148298	11/14/13 08:43	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	148367	11/15/13 19:19	JL	TAL PLS

Client Sample ID: EX7-S15 (3.0)

Lab Sample ID: 720-53674-5

Date Collected: 11/11/13 14:00

Matrix: Solid

Date Received: 11/11/13 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			148298	11/14/13 08:43	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	148443	11/16/13 12:08	DCH	TAL PLS

Client Sample ID: EX7-S16 (3.0)

Lab Sample ID: 720-53674-6

Date Collected: 11/11/13 14:05

Matrix: Solid

Date Received: 11/11/13 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			148298	11/14/13 08:43	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	148366	11/15/13 20:32	JL	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53674-1

Client Sample ID: EX7-S17 (3.0)
Date Collected: 11/11/13 14:10
Date Received: 11/11/13 17:15

Lab Sample ID: 720-53674-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			148298	11/14/13 08:43	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	148366	11/15/13 20:56	JL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53674-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53674-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53674-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-53674-1	EX7-S11 (3.0)	Solid	11/11/13 13:40	11/11/13 17:15
720-53674-2	EX7-S12 (3.0)	Solid	11/11/13 13:45	11/11/13 17:15
720-53674-3	EX7-S13 (3.0)	Solid	11/11/13 13:50	11/11/13 17:15
720-53674-4	EX7-S14 (3.0)	Solid	11/11/13 13:55	11/11/13 17:15
720-53674-5	EX7-S15 (3.0)	Solid	11/11/13 14:00	11/11/13 17:15
720-53674-6	EX7-S16 (3.0)	Solid	11/11/13 14:05	11/11/13 17:15
720-53674-7	EX7-S17 (3.0)	Solid	11/11/13 14:10	11/11/13 17:15

TestAmerica

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720-53674

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 149966

Date 11/11/13 Page 1 of 1

11/18/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St., Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT, BJM
Attn: Accounts Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS) ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
EX7-S11 (3.0)	11/11/13	1340	Soil	Ice				X																		1
EX7-S12 (3.0)	11/11/13	1345	Soil	Ice				X																		1
EX7-S13 (3.0)	11/11/13	1350	Soil	Ice				X																		1
EX7-S14 (3.0)	11/11/13	1355	Soil	Ice				X																		1
EX7-S15 (3.0)	11/11/13	~~1350~~ 1400	Soil	Ice				X																		1
EX7-S16 (3.0)	11/11/13	1405	Soil	Ice				X																		1
EX7-S17 (3.0)	11/11/13	1410	Soil	Ice				X																		1

Page 20 of 21

Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: # 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 7.1°C

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___

8oz SOIL JARS

See Terms and Conditions on reverse

1) Relinquished by: [signature] 1715
Signature Time
Vincent Tolotta 11/11/13
Printed Name Date
Haley & Aldrich
Company

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by:
Signature Time
Printed Name Date
Company

1) Received by: [signature] 1715
Signature Time
Mullen 11-11-13
Printed Name Date
[signature]
Company

2) Received by:
Signature
Printed Name
Company

3) Received by
Time
Date
Company

720-53674 Chain of Custody

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-53674-1

Login Number: 53674

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Bullock, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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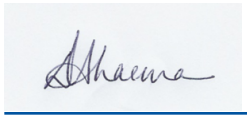
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-53742-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz



Authorized for release by:
11/21/2013 3:23:57 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53742-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-53742-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-53742-1

Comments
No additional comments.

Receipt
The samples were received on 11/14/2013 4:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.6º C.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: EX10/11-S4(5.0) (720-53742-3), EX10/11-S7(3.0) (720-53742-6).

Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: EX10/11-S3(7.0) (720-53742-2).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53742-1

Client Sample ID: EX10/11-B1(15.0) — Lab Sample ID: 720-53742-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	120		0.98		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	190		49		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX10/11-S3(7.0) — Lab Sample ID: 720-53742-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1800		50		mg/Kg	50		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	4000		2500		mg/Kg	50		8015B	Silica Gel Cleanup

Client Sample ID: EX10/11-S4(5.0) — Lab Sample ID: 720-53742-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	240		9.8		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	740		490		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: EX10/11-S5(5.0) — Lab Sample ID: 720-53742-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	12		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX10/11-S6(3.0) — Lab Sample ID: 720-53742-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	41		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	110		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX10/11-S7(3.0) — Lab Sample ID: 720-53742-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1100		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	2800		990		mg/Kg	20		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53742-1

Client Sample ID: EX10/11-B1(15.0)
Date Collected: 11/14/13 15:09
Date Received: 11/14/13 16:05

Lab Sample ID: 720-53742-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	120		0.98		mg/Kg		11/19/13 12:09	11/20/13 11:39	1
Motor Oil Range Organics [C24-C36]	190		49		mg/Kg		11/19/13 12:09	11/20/13 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.6*		*0 - 1*	*11/19/13 12:09*	*11/20/13 11:39*	*1*
p-Terphenyl	*93*		*38 - 148*	*11/19/13 12:09*	*11/20/13 11:39*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53742-1

Client Sample ID: EX10/11-S3(7.0)
Date Collected: 11/14/13 15:03
Date Received: 11/14/13 16:05

Lab Sample ID: 720-53742-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1800		50		mg/Kg		11/19/13 12:09	11/20/13 14:35	50
Motor Oil Range Organics [C24-C36]	4000		2500		mg/Kg		11/19/13 12:09	11/20/13 14:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*11/19/13 12:09*	*11/20/13 14:35*	*50*
p-Terphenyl	*0*	*X D*	*38 - 148*	*11/19/13 12:09*	*11/20/13 14:35*	*50*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53742-1

Client Sample ID: EX10/11-S4(5.0)
Date Collected: 11/14/13 15:05
Date Received: 11/14/13 16:05

Lab Sample ID: 720-53742-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	240		9.8		mg/Kg		11/19/13 12:09	11/20/13 15:34	10
Motor Oil Range Organics [C24-C36]	740		490		mg/Kg		11/19/13 12:09	11/20/13 15:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*11/19/13 12:09*	*11/20/13 15:34*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*11/19/13 12:09*	*11/20/13 15:34*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53742-1

Client Sample ID: EX10/11-S5(5.0)
Date Collected: 11/14/13 15:12
Date Received: 11/14/13 16:05

Lab Sample ID: 720-53742-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	12		0.99		mg/Kg		11/19/13 12:09	11/20/13 13:07	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/19/13 12:09	11/20/13 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*11/19/13 12:09*	*11/20/13 13:07*	*1*
p-Terphenyl	*82*		*38 - 148*	*11/19/13 12:09*	*11/20/13 13:07*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53742-1

Client Sample ID: EX10/11-S6(3.0)
Date Collected: 11/14/13 15:16
Date Received: 11/14/13 16:05

Lab Sample ID: 720-53742-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	41		0.99		mg/Kg		11/19/13 12:09	11/20/13 13:36	1
Motor Oil Range Organics [C24-C36]	110		50		mg/Kg		11/19/13 12:09	11/20/13 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.04*		*0 - 1*	*11/19/13 12:09*	*11/20/13 13:36*	*1*
p-Terphenyl	*104*		*38 - 148*	*11/19/13 12:09*	*11/20/13 13:36*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53742-1

Client Sample ID: EX10/11-S7(3.0)
Date Collected: 11/14/13 15:19
Date Received: 11/14/13 16:05

Lab Sample ID: 720-53742-6
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1100		20		mg/Kg		11/19/13 12:09	11/20/13 16:03	20
Motor Oil Range Organics [C24-C36]	2800		990		mg/Kg		11/19/13 12:09	11/20/13 16:03	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*11/19/13 12:09*	*11/20/13 16:03*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*11/19/13 12:09*	*11/20/13 16:03*	*20*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53742-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-148572/1-A
Matrix: Solid
Analysis Batch: 148636

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 148572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		11/19/13 12:09	11/20/13 21:32	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/19/13 12:09	11/20/13 21:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*11/19/13 12:09*	*11/20/13 21:32*	*1*
p-Terphenyl	*105*		*38 - 148*	*11/19/13 12:09*	*11/20/13 21:32*	*1*

Lab Sample ID: LCS 720-148572/2-A
Matrix: Solid
Analysis Batch: 148636

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 148572

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.1	84.5		mg/Kg		103	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*112*		*38 - 148*

Lab Sample ID: LCSD 720-148572/3-A
Matrix: Solid
Analysis Batch: 148636

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 148572

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.9	80.8		mg/Kg		97	36 - 112	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*118*		*38 - 148*

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53742-1

GC Semi VOA

Prep Batch: 148572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53742-1	EX10/11-B1(15.0)	Silica Gel Cleanup	Solid	3546	
720-53742-2	EX10/11-S3(7.0)	Silica Gel Cleanup	Solid	3546	
720-53742-3	EX10/11-S4(5.0)	Silica Gel Cleanup	Solid	3546	
720-53742-4	EX10/11-S5(5.0)	Silica Gel Cleanup	Solid	3546	
720-53742-5	EX10/11-S6(3.0)	Silica Gel Cleanup	Solid	3546	
720-53742-6	EX10/11-S7(3.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-148572/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-148572/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-148572/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 148636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-148572/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	148572
LCSD 720-148572/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	148572
MB 720-148572/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	148572

Analysis Batch: 148658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53742-1	EX10/11-B1(15.0)	Silica Gel Cleanup	Solid	8015B	148572
720-53742-3	EX10/11-S4(5.0)	Silica Gel Cleanup	Solid	8015B	148572
720-53742-4	EX10/11-S5(5.0)	Silica Gel Cleanup	Solid	8015B	148572
720-53742-5	EX10/11-S6(3.0)	Silica Gel Cleanup	Solid	8015B	148572
720-53742-6	EX10/11-S7(3.0)	Silica Gel Cleanup	Solid	8015B	148572

Analysis Batch: 148659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53742-2	EX10/11-S3(7.0)	Silica Gel Cleanup	Solid	8015B	148572

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53742-1

Client Sample ID: EX10/11-B1(15.0)

Lab Sample ID: 720-53742-1

Date Collected: 11/14/13 15:09

Matrix: Solid

Date Received: 11/14/13 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			148572	11/19/13 12:09	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	148658	11/20/13 11:39	JL	TAL PLS

Client Sample ID: EX10/11-S3(7.0)

Lab Sample ID: 720-53742-2

Date Collected: 11/14/13 15:03

Matrix: Solid

Date Received: 11/14/13 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			148572	11/19/13 12:09	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		50	148659	11/20/13 14:35	JL	TAL PLS

Client Sample ID: EX10/11-S4(5.0)

Lab Sample ID: 720-53742-3

Date Collected: 11/14/13 15:05

Matrix: Solid

Date Received: 11/14/13 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			148572	11/19/13 12:09	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	148658	11/20/13 15:34	JL	TAL PLS

Client Sample ID: EX10/11-S5(5.0)

Lab Sample ID: 720-53742-4

Date Collected: 11/14/13 15:12

Matrix: Solid

Date Received: 11/14/13 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			148572	11/19/13 12:09	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	148658	11/20/13 13:07	JL	TAL PLS

Client Sample ID: EX10/11-S6(3.0)

Lab Sample ID: 720-53742-5

Date Collected: 11/14/13 15:16

Matrix: Solid

Date Received: 11/14/13 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			148572	11/19/13 12:09	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	148658	11/20/13 13:36	JL	TAL PLS

Client Sample ID: EX10/11-S7(3.0)

Lab Sample ID: 720-53742-6

Date Collected: 11/14/13 15:19

Matrix: Solid

Date Received: 11/14/13 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			148572	11/19/13 12:09	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	148658	11/20/13 16:03	JL	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53742-1

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53742-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53742-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53742-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-53742-1	EX10/11-B1(15.0)	Solid	11/14/13 15:09	11/14/13 16:05
720-53742-2	EX10/11-S3(7.0)	Solid	11/14/13 15:03	11/14/13 16:05
720-53742-3	EX10/11-S4(5.0)	Solid	11/14/13 15:05	11/14/13 16:05
720-53742-4	EX10/11-S5(5.0)	Solid	11/14/13 15:12	11/14/13 16:05
720-53742-5	EX10/11-S6(3.0)	Solid	11/14/13 15:16	11/14/13 16:05
720-53742-6	EX10/11-S7(3.0)	Solid	11/14/13 15:19	11/14/13 16:05

TestAmerica
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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 150040

720-53742

Date 11/14/13 Page 1 of 1

11/21/2013

Report To

Attn: J Schwartz
Company: Haley & Aldrich
Address: 2033 N Main St
Email: JSCHWARTZ@haleyaldrich.com
Bill To: H&A
Sampled By: J Schwartz
Attn: A.P.
Phone: 925 357 7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
EX10/11-S1(5.0)	11/14/13	1509	So	-				X																		1
EX10/11-S3(7.0)	11/14/13	1503	So	-				X																		1
EX10/11-S4(5.0)		1505	So	-				X																		1
EX10/11-S5(5.0)		1512	So	-				X																		1
EX10/11-S6(3.0)		1516	So	-				X																		1
EX10/11-S7(3.0)		1519	So	-				X																		1
									JS 11/14/13																	

Project Info

Project Name/ #: Hanson
PO#: 39792-032
Credit Card Y/N:

Sample Receipt

of Containers:
Head Space:
Temp: 7.6°c

If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1605	Signature:	Time:
Printed Name: JOANNA SEGL Date: 11/14/13	Printed Name:	Date:
Company: Haley & Aldrich	Company:	

720-53742 Chain of Custody

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1605	Signature: Time:	Signature: Time:
Printed Name: Justin Gonzales Date: 11/14/13	Printed Name: Date:	Printed Name: Date:
Company: TAP	Company:	Company:

Rev 10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-53742-1

Login Number: 53742

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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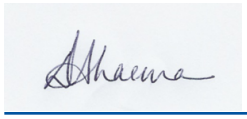
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-54027-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz



Authorized for release by:
12/3/2013 5:45:46 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-54027-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-54027-1

Comments
No additional comments.

Receipt
The samples were received on 11/25/2013 3:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

GC/MS VOA
Method 8260B: Internal standard response for the following sample 54036-1MS exceeded the lower control limit due to matrix.

No other analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: TS1-B1 — Lab Sample ID: 720-54027-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	52		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	170		49		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS2-B1 — Lab Sample ID: 720-54027-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	8.8		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS3-B1 — Lab Sample ID: 720-54027-3

No Detections.

Client Sample ID: TS3-S1(5.0) — Lab Sample ID: 720-54027-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.0		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS4-B1 — Lab Sample ID: 720-54027-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	68		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	280		150		mg/Kg	3		8015B	Silica Gel Cleanup

Client Sample ID: CS-B10 — Lab Sample ID: 720-54027-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	14		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CS-B11 — Lab Sample ID: 720-54027-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.5		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: LF-SPOILSA COMP — Lab Sample ID: 720-54027-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.4		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Arsenic	5.2		3.6		mg/Kg	4		6010B	Total/NA
Barium	160		1.8		mg/Kg	4		6010B	Total/NA
Chromium	58		1.8		mg/Kg	4		6010B	Total/NA
Cobalt	12		0.71		mg/Kg	4		6010B	Total/NA
Copper	28		5.4		mg/Kg	4		6010B	Total/NA
Lead	8.2		1.8		mg/Kg	4		6010B	Total/NA
Nickel	82		1.8		mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: LF-SPOILSA COMP (Continued) — Lab Sample ID: 720-54027-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	34		1.8		mg/Kg	4		6010B	Total/NA
Zinc	63		5.4		mg/Kg	4		6010B	Total/NA
Mercury	0.024		0.0098		mg/Kg	1		7471A	Total/NA

Client Sample ID: LF-SPOILSB COMP — Lab Sample ID: 720-54027-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	13		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	57		50		mg/Kg	1		8015B	Silica Gel Cleanup
Arsenic	4.0		3.7		mg/Kg	4		6010B	Total/NA
Barium	160		1.9		mg/Kg	4		6010B	Total/NA
Chromium	52		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	11		0.74		mg/Kg	4		6010B	Total/NA
Copper	26		5.6		mg/Kg	4		6010B	Total/NA
Lead	7.3		1.9		mg/Kg	4		6010B	Total/NA
Nickel	75		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	33		1.9		mg/Kg	4		6010B	Total/NA
Zinc	49		5.6		mg/Kg	4		6010B	Total/NA
Mercury	0.028		0.0087		mg/Kg	1		7471A	Total/NA

Client Sample ID: LF-SPOILSC COMP — Lab Sample ID: 720-54027-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	20		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	81		50		mg/Kg	1		8015B	Silica Gel Cleanup
Barium	150		1.9		mg/Kg	4		6010B	Total/NA
Chromium	51		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	10		0.77		mg/Kg	4		6010B	Total/NA
Copper	23		5.8		mg/Kg	4		6010B	Total/NA
Lead	6.5		1.9		mg/Kg	4		6010B	Total/NA
Nickel	72		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	29		1.9		mg/Kg	4		6010B	Total/NA
Zinc	50		5.8		mg/Kg	4		6010B	Total/NA
Mercury	0.028		0.0091		mg/Kg	1		7471A	Total/NA

Client Sample ID: SL-SPOILS COMP — Lab Sample ID: 720-54027-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	52		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	140		50		mg/Kg	1		8015B	Silica Gel Cleanup
Arsenic	4.7		3.9		mg/Kg	4		6010B	Total/NA
Barium	140		1.9		mg/Kg	4		6010B	Total/NA
Chromium	53		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	12		0.78		mg/Kg	4		6010B	Total/NA
Copper	29		5.8		mg/Kg	4		6010B	Total/NA
Lead	9.1		1.9		mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: SL-SPOILS COMP (Continued)

Lab Sample ID: 720-54027-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	79		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	29		1.9		mg/Kg	4		6010B	Total/NA
Zinc	100		5.8		mg/Kg	4		6010B	Total/NA
Mercury	0.058		0.0092		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: TS1-B1
Date Collected: 11/25/13 13:30
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	52		0.99		mg/Kg		11/26/13 11:16	11/27/13 16:08	1
Motor Oil Range Organics [C24-C36]	170		49		mg/Kg		11/26/13 11:16	11/27/13 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.2*		*0 - 1*	*11/26/13 11:16*	*11/27/13 16:08*	*1*
p-Terphenyl	*76*		*38 - 148*	*11/26/13 11:16*	*11/27/13 16:08*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: TS2-B1
Date Collected: 11/25/13 13:35
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**8.8**		1.0		mg/Kg		11/26/13 11:16	11/27/13 15:44	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/26/13 11:16	11/27/13 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*11/26/13 11:16*	*11/27/13 15:44*	*1*
p-Terphenyl	*96*		*38 - 148*	*11/26/13 11:16*	*11/27/13 15:44*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: TS3-B1
Date Collected: 11/25/13 13:37
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		11/26/13 11:16	11/27/13 14:07	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/26/13 11:16	11/27/13 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*11/26/13 11:16*	*11/27/13 14:07*	*1*
p-Terphenyl	*99*		*38 - 148*	*11/26/13 11:16*	*11/27/13 14:07*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: TS3-S1(5.0)
Date Collected: 11/25/13 13:40
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-4
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		4.9		ug/Kg		12/02/13 14:02	12/02/13 21:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*33 - 120*	*12/02/13 14:02*	*12/02/13 21:56*	*1*
Terphenyl-d14	*83*		*35 - 146*	*12/02/13 14:02*	*12/02/13 21:56*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.0**		0.99		mg/Kg		11/26/13 11:16	11/27/13 18:10	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/26/13 11:16	11/27/13 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*11/26/13 11:16*	*11/27/13 18:10*	*1*
p-Terphenyl	*103*		*38 - 148*	*11/26/13 11:16*	*11/27/13 18:10*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: TS4-B1
Date Collected: 11/25/13 13:45
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	68		3.0		mg/Kg		11/26/13 11:16	11/27/13 19:23	3
Motor Oil Range Organics [C24-C36]	280		150		mg/Kg		11/26/13 11:16	11/27/13 19:23	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*11/26/13 11:16*	*11/27/13 19:23*	*3*
p-Terphenyl	*75*		*38 - 148*	*11/26/13 11:16*	*11/27/13 19:23*	*3*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: CS-B10
Date Collected: 11/25/13 13:50
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-6
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**14**		0.99		mg/Kg		11/27/13 08:29	11/29/13 15:44	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/27/13 08:29	11/29/13 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*11/27/13 08:29*	*11/29/13 15:44*	*1*
p-Terphenyl	*112*		*38 - 148*	*11/27/13 08:29*	*11/29/13 15:44*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: CS-B11
Date Collected: 11/25/13 13:55
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-7
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.5**		0.99		mg/Kg		11/27/13 08:29	11/29/13 14:56	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		11/27/13 08:29	11/29/13 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.007*		*0 - 1*	*11/27/13 08:29*	*11/29/13 14:56*	*1*
p-Terphenyl	*97*		*38 - 148*	*11/27/13 08:29*	*11/29/13 14:56*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: LF-SPOILSA COMP
Date Collected: 11/25/13 11:50
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-12
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Acetone	ND		46		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Benzene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Dichlorobromomethane	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Bromobenzene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Chlorobromomethane	ND		18		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Bromoform	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Bromomethane	ND		9.1		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
2-Butanone (MEK)	ND		46		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
n-Butylbenzene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
sec-Butylbenzene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
tert-Butylbenzene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Carbon disulfide	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Carbon tetrachloride	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Chlorobenzene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Chloroethane	ND		9.1		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Chloroform	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Chloromethane	ND		9.1		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
2-Chlorotoluene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
4-Chlorotoluene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Chlorodibromomethane	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,3-Dichloropropane	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,1-Dichloropropene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Ethylene Dibromide	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Dibromomethane	ND		9.1		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Dichlorodifluoromethane	ND		9.1		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,1-Dichloroethane	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,2-Dichloroethane	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,1-Dichloroethene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,2-Dichloropropane	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Ethylbenzene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Hexachlorobutadiene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
2-Hexanone	ND		46		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Isopropylbenzene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
4-Isopropyltoluene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Methylene Chloride	ND		9.1		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Naphthalene	ND		9.1		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
N-Propylbenzene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Styrene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: LF-SPOILSA COMP
Date Collected: 11/25/13 11:50
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-12
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Tetrachloroethene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Toluene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Trichloroethene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Trichlorofluoromethane	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Vinyl acetate	ND		46		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Vinyl chloride	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Xylenes, Total	ND		9.1		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
2,2-Dichloropropane	ND		4.6		ug/Kg		11/27/13 16:22	11/27/13 21:24	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		11/27/13 16:22	11/27/13 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*45 - 131*	*11/27/13 16:22*	*11/27/13 21:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*	*11/27/13 16:22*	*11/27/13 21:24*	*1*
Toluene-d8 (Surr)	*98*		*58 - 140*	*11/27/13 16:22*	*11/27/13 21:24*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.4**		0.99		mg/Kg		11/27/13 08:29	11/29/13 17:21	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		11/27/13 08:29	11/29/13 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*11/27/13 08:29*	*11/29/13 17:21*	*1*
p-Terphenyl	*102*		*38 - 148*	*11/27/13 08:29*	*11/29/13 17:21*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8		mg/Kg		11/27/13 20:36	12/03/13 14:23	4
Arsenic	**5.2**		3.6		mg/Kg		11/27/13 20:36	12/03/13 14:23	4
Barium	**160**		1.8		mg/Kg		11/27/13 20:36	12/03/13 14:23	4
Beryllium	ND		0.36		mg/Kg		11/27/13 20:36	12/03/13 14:23	4
Cadmium	ND		0.45		mg/Kg		11/27/13 20:36	12/03/13 14:23	4
Chromium	**58**		1.8		mg/Kg		11/27/13 20:36	12/03/13 14:23	4
Cobalt	**12**		0.71		mg/Kg		11/27/13 20:36	12/03/13 14:23	4
Copper	**28**		5.4		mg/Kg		11/27/13 20:36	12/03/13 14:23	4
Lead	**8.2**		1.8		mg/Kg		11/27/13 20:36	12/03/13 14:23	4
Molybdenum	ND		1.8		mg/Kg		11/27/13 20:36	12/03/13 14:23	4
Nickel	**82**		1.8		mg/Kg		11/27/13 20:36	12/03/13 14:23	4
Selenium	ND		3.6		mg/Kg		11/27/13 20:36	12/03/13 14:23	4
Silver	ND		0.89		mg/Kg		11/27/13 20:36	12/03/13 14:23	4
Thallium	ND		1.8		mg/Kg		11/27/13 20:36	12/03/13 14:23	4
Vanadium	**34**		1.8		mg/Kg		11/27/13 20:36	12/03/13 14:23	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: LF-SPOILSA COMP
Date Collected: 11/25/13 11:50
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-12
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	63		5.4		mg/Kg		11/27/13 20:36	12/03/13 14:23	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.0098		mg/Kg		11/29/13 11:52	11/30/13 12:42	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: LF-SPOILSB COMP — **Lab Sample ID: 720-54027-17**
Date Collected: 11/25/13 11:55 — **Matrix: Solid**
Date Received: 11/25/13 15:25

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Acetone	ND		48		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Benzene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Dichlorobromomethane	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Bromobenzene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Chlorobromomethane	ND		19		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Bromoform	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Bromomethane	ND		9.6		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
2-Butanone (MEK)	ND		48		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
n-Butylbenzene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
sec-Butylbenzene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
tert-Butylbenzene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Carbon disulfide	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Carbon tetrachloride	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Chlorobenzene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Chloroethane	ND		9.6		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Chloroform	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Chloromethane	ND		9.6		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
2-Chlorotoluene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
4-Chlorotoluene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Chlorodibromomethane	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,3-Dichloropropane	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,1-Dichloropropene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Ethylene Dibromide	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Dibromomethane	ND		9.6		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,1-Dichloroethane	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,2-Dichloroethane	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,1-Dichloroethene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,2-Dichloropropane	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Ethylbenzene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Hexachlorobutadiene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
2-Hexanone	ND		48		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Isopropylbenzene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
4-Isopropyltoluene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Methylene Chloride	ND		9.6		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Naphthalene	ND		9.6		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
N-Propylbenzene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Styrene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: LF-SPOILSB COMP
Date Collected: 11/25/13 11:55
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-17
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Tetrachloroethene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Toluene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Trichloroethene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Trichlorofluoromethane	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Vinyl acetate	ND		48		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Vinyl chloride	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Xylenes, Total	ND		9.6		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
2,2-Dichloropropane	ND		4.8		ug/Kg		11/26/13 17:46	11/27/13 01:51	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		11/26/13 17:46	11/27/13 01:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*45 - 131*	*11/26/13 17:46*	*11/27/13 01:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*	*11/26/13 17:46*	*11/27/13 01:51*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*11/26/13 17:46*	*11/27/13 01:51*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**13**		0.99		mg/Kg		11/27/13 08:29	11/29/13 13:43	1
Motor Oil Range Organics [C24-C36]	**57**		50		mg/Kg		11/27/13 08:29	11/29/13 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.007*		*0 - 1*	*11/27/13 08:29*	*11/29/13 13:43*	*1*
p-Terphenyl	*113*		*38 - 148*	*11/27/13 08:29*	*11/29/13 13:43*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:28	4
Arsenic	**4.0**		3.7		mg/Kg		11/27/13 20:36	12/03/13 14:28	4
Barium	**160**		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:28	4
Beryllium	ND		0.37		mg/Kg		11/27/13 20:36	12/03/13 14:28	4
Cadmium	ND		0.46		mg/Kg		11/27/13 20:36	12/03/13 14:28	4
Chromium	**52**		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:28	4
Cobalt	**11**		0.74		mg/Kg		11/27/13 20:36	12/03/13 14:28	4
Copper	**26**		5.6		mg/Kg		11/27/13 20:36	12/03/13 14:28	4
Lead	**7.3**		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:28	4
Molybdenum	ND		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:28	4
Nickel	**75**		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:28	4
Selenium	ND		3.7		mg/Kg		11/27/13 20:36	12/03/13 14:28	4
Silver	ND		0.93		mg/Kg		11/27/13 20:36	12/03/13 14:28	4
Thallium	ND		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:28	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: LF-SPOILSB COMP
Date Collected: 11/25/13 11:55
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-17
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	33		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:28	4
Zinc	49		5.6		mg/Kg		11/27/13 20:36	12/03/13 14:28	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.0087		mg/Kg		11/29/13 11:52	11/30/13 12:44	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: LF-SPOILSC COMP
Date Collected: 11/25/13 12:00
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-22
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Acetone	ND		50		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Benzene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Dichlorobromomethane	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Bromobenzene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Chlorobromomethane	ND		20		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Bromoform	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Bromomethane	ND		9.9		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
2-Butanone (MEK)	ND		50		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
n-Butylbenzene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
sec-Butylbenzene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
tert-Butylbenzene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Carbon disulfide	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Carbon tetrachloride	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Chlorobenzene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Chloroethane	ND		9.9		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Chloroform	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Chloromethane	ND		9.9		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
2-Chlorotoluene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
4-Chlorotoluene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Chlorodibromomethane	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,3-Dichloropropane	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,1-Dichloropropene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Ethylene Dibromide	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Dibromomethane	ND		9.9		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,1-Dichloroethane	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,2-Dichloroethane	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,1-Dichloroethene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,2-Dichloropropane	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Ethylbenzene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Hexachlorobutadiene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
2-Hexanone	ND		50		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Isopropylbenzene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
4-Isopropyltoluene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Methylene Chloride	ND		9.9		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Naphthalene	ND		9.9		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
N-Propylbenzene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Styrene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: LF-SPOILSC COMP
Date Collected: 11/25/13 12:00
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-22
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Tetrachloroethene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Toluene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Trichloroethene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Trichlorofluoromethane	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Vinyl acetate	ND		50		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Vinyl chloride	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Xylenes, Total	ND		9.9		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
2,2-Dichloropropane	ND		5.0		ug/Kg		11/27/13 10:00	11/27/13 18:47	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		11/27/13 10:00	11/27/13 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*45 - 131*	*11/27/13 10:00*	*11/27/13 18:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*	*11/27/13 10:00*	*11/27/13 18:47*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*	*11/27/13 10:00*	*11/27/13 18:47*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**20**		1.0		mg/Kg		11/29/13 14:12	11/30/13 00:39	1
Motor Oil Range Organics [C24-C36]	**81**		50		mg/Kg		11/29/13 14:12	11/30/13 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.03*		*0 - 1*	*11/29/13 14:12*	*11/30/13 00:39*	*1*
p-Terphenyl	*91*		*38 - 148*	*11/29/13 14:12*	*11/30/13 00:39*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:32	4
Arsenic	ND		3.8		mg/Kg		11/27/13 20:36	12/03/13 14:32	4
Barium	**150**		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:32	4
Beryllium	ND		0.38		mg/Kg		11/27/13 20:36	12/03/13 14:32	4
Cadmium	ND		0.48		mg/Kg		11/27/13 20:36	12/03/13 14:32	4
Chromium	**51**		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:32	4
Cobalt	**10**		0.77		mg/Kg		11/27/13 20:36	12/03/13 14:32	4
Copper	**23**		5.8		mg/Kg		11/27/13 20:36	12/03/13 14:32	4
Lead	**6.5**		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:32	4
Molybdenum	ND		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:32	4
Nickel	**72**		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:32	4
Selenium	ND		3.8		mg/Kg		11/27/13 20:36	12/03/13 14:32	4
Silver	ND		0.96		mg/Kg		11/27/13 20:36	12/03/13 14:32	4
Thallium	ND		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:32	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: LF-SPOILSC COMP
Date Collected: 11/25/13 12:00
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-22
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	29		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:32	4
Zinc	50		5.8		mg/Kg		11/27/13 20:36	12/03/13 14:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.0091		mg/Kg		11/29/13 11:52	11/30/13 12:47	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: SL-SPOILS COMP
Date Collected: 11/25/13 12:10
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-27
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Acetone	ND		48		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Benzene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Dichlorobromomethane	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Bromobenzene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Chlorobromomethane	ND		19		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Bromoform	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Bromomethane	ND		9.7		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
2-Butanone (MEK)	ND		48		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
n-Butylbenzene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
sec-Butylbenzene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
tert-Butylbenzene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Carbon disulfide	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Carbon tetrachloride	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Chlorobenzene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Chloroethane	ND		9.7		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Chloroform	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Chloromethane	ND		9.7		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
2-Chlorotoluene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
4-Chlorotoluene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Chlorodibromomethane	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,3-Dichloropropane	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,1-Dichloropropene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Ethylene Dibromide	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Dibromomethane	ND		9.7		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,1-Dichloroethane	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,2-Dichloroethane	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,1-Dichloroethene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,2-Dichloropropane	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Ethylbenzene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Hexachlorobutadiene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
2-Hexanone	ND		48		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Isopropylbenzene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
4-Isopropyltoluene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Methylene Chloride	ND		9.7		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Naphthalene	ND		9.7		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
N-Propylbenzene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Styrene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1

Client Sample ID: SL-SPOILS COMP
Date Collected: 11/25/13 12:10
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-27
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Tetrachloroethene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Toluene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Trichloroethene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Trichlorofluoromethane	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Vinyl acetate	ND		48		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Vinyl chloride	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Xylenes, Total	ND		9.7		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
2,2-Dichloropropane	ND		4.8		ug/Kg		11/27/13 10:00	11/27/13 19:15	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		11/27/13 10:00	11/27/13 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*45 - 131*	*11/27/13 10:00*	*11/27/13 19:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*	*11/27/13 10:00*	*11/27/13 19:15*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*11/27/13 10:00*	*11/27/13 19:15*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**52**		1.0		mg/Kg		11/29/13 14:12	11/29/13 23:26	1
Motor Oil Range Organics [C24-C36]	**140**		50		mg/Kg		11/29/13 14:12	11/29/13 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.2*		*0 - 1*	*11/29/13 14:12*	*11/29/13 23:26*	*1*
p-Terphenyl	*94*		*38 - 148*	*11/29/13 14:12*	*11/29/13 23:26*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:36	4
Arsenic	**4.7**		3.9		mg/Kg		11/27/13 20:36	12/03/13 14:36	4
Barium	**140**		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:36	4
Beryllium	ND		0.39		mg/Kg		11/27/13 20:36	12/03/13 14:36	4
Cadmium	ND		0.49		mg/Kg		11/27/13 20:36	12/03/13 14:36	4
Chromium	**53**		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:36	4
Cobalt	**12**		0.78		mg/Kg		11/27/13 20:36	12/03/13 14:36	4
Copper	**29**		5.8		mg/Kg		11/27/13 20:36	12/03/13 14:36	4
Lead	**9.1**		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:36	4
Molybdenum	ND		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:36	4
Nickel	**79**		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:36	4
Selenium	ND		3.9		mg/Kg		11/27/13 20:36	12/03/13 14:36	4
Silver	ND		0.97		mg/Kg		11/27/13 20:36	12/03/13 14:36	4
Thallium	ND		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:36	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: SL-SPOILS COMP
Date Collected: 11/25/13 12:10
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-27
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	29		1.9		mg/Kg		11/27/13 20:36	12/03/13 14:36	4
Zinc	100		5.8		mg/Kg		11/27/13 20:36	12/03/13 14:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058		0.0092		mg/Kg		11/29/13 11:52	11/30/13 12:49	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-149057/4
Matrix: Solid
Analysis Batch: 149057

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			11/26/13 15:52	1
Acetone	ND		50		ug/Kg			11/26/13 15:52	1
Benzene	ND		5.0		ug/Kg			11/26/13 15:52	1
Dichlorobromomethane	ND		5.0		ug/Kg			11/26/13 15:52	1
Bromobenzene	ND		5.0		ug/Kg			11/26/13 15:52	1
Chlorobromomethane	ND		20		ug/Kg			11/26/13 15:52	1
Bromoform	ND		5.0		ug/Kg			11/26/13 15:52	1
Bromomethane	ND		10		ug/Kg			11/26/13 15:52	1
2-Butanone (MEK)	ND		50		ug/Kg			11/26/13 15:52	1
n-Butylbenzene	ND		5.0		ug/Kg			11/26/13 15:52	1
sec-Butylbenzene	ND		5.0		ug/Kg			11/26/13 15:52	1
tert-Butylbenzene	ND		5.0		ug/Kg			11/26/13 15:52	1
Carbon disulfide	ND		5.0		ug/Kg			11/26/13 15:52	1
Carbon tetrachloride	ND		5.0		ug/Kg			11/26/13 15:52	1
Chlorobenzene	ND		5.0		ug/Kg			11/26/13 15:52	1
Chloroethane	ND		10		ug/Kg			11/26/13 15:52	1
Chloroform	ND		5.0		ug/Kg			11/26/13 15:52	1
Chloromethane	ND		10		ug/Kg			11/26/13 15:52	1
2-Chlorotoluene	ND		5.0		ug/Kg			11/26/13 15:52	1
4-Chlorotoluene	ND		5.0		ug/Kg			11/26/13 15:52	1
Chlorodibromomethane	ND		5.0		ug/Kg			11/26/13 15:52	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			11/26/13 15:52	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			11/26/13 15:52	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			11/26/13 15:52	1
1,3-Dichloropropane	ND		5.0		ug/Kg			11/26/13 15:52	1
1,1-Dichloropropene	ND		5.0		ug/Kg			11/26/13 15:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			11/26/13 15:52	1
Ethylene Dibromide	ND		5.0		ug/Kg			11/26/13 15:52	1
Dibromomethane	ND		10		ug/Kg			11/26/13 15:52	1
Dichlorodifluoromethane	ND		10		ug/Kg			11/26/13 15:52	1
1,1-Dichloroethane	ND		5.0		ug/Kg			11/26/13 15:52	1
1,2-Dichloroethane	ND		5.0		ug/Kg			11/26/13 15:52	1
1,1-Dichloroethene	ND		5.0		ug/Kg			11/26/13 15:52	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			11/26/13 15:52	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			11/26/13 15:52	1
1,2-Dichloropropane	ND		5.0		ug/Kg			11/26/13 15:52	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			11/26/13 15:52	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			11/26/13 15:52	1
Ethylbenzene	ND		5.0		ug/Kg			11/26/13 15:52	1
Hexachlorobutadiene	ND		5.0		ug/Kg			11/26/13 15:52	1
2-Hexanone	ND		50		ug/Kg			11/26/13 15:52	1
Isopropylbenzene	ND		5.0		ug/Kg			11/26/13 15:52	1
4-Isopropyltoluene	ND		5.0		ug/Kg			11/26/13 15:52	1
Methylene Chloride	ND		10		ug/Kg			11/26/13 15:52	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			11/26/13 15:52	1
Naphthalene	ND		10		ug/Kg			11/26/13 15:52	1
N-Propylbenzene	ND		5.0		ug/Kg			11/26/13 15:52	1
Styrene	ND		5.0		ug/Kg			11/26/13 15:52	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-149057/4
Matrix: Solid
Analysis Batch: 149057

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			11/26/13 15:52	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			11/26/13 15:52	1
Tetrachloroethene	ND		5.0		ug/Kg			11/26/13 15:52	1
Toluene	ND		5.0		ug/Kg			11/26/13 15:52	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			11/26/13 15:52	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			11/26/13 15:52	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			11/26/13 15:52	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			11/26/13 15:52	1
Trichloroethene	ND		5.0		ug/Kg			11/26/13 15:52	1
Trichlorofluoromethane	ND		5.0		ug/Kg			11/26/13 15:52	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			11/26/13 15:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			11/26/13 15:52	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			11/26/13 15:52	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			11/26/13 15:52	1
Vinyl acetate	ND		50		ug/Kg			11/26/13 15:52	1
Vinyl chloride	ND		5.0		ug/Kg			11/26/13 15:52	1
Xylenes, Total	ND		10		ug/Kg			11/26/13 15:52	1
2,2-Dichloropropane	ND		5.0		ug/Kg			11/26/13 15:52	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			11/26/13 15:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*45 - 131*		*11/26/13 15:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*		*11/26/13 15:52*	*1*
Toluene-d8 (Surr)	*96*		*58 - 140*		*11/26/13 15:52*	*1*

Lab Sample ID: LCS 720-149057/5
Matrix: Solid
Analysis Batch: 149057

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	55.5		ug/Kg		111	70 - 144
Acetone	250	256		ug/Kg		103	30 - 162
Benzene	50.0	50.4		ug/Kg		101	70 - 130
Dichlorobromomethane	50.0	52.4		ug/Kg		105	70 - 131
Bromobenzene	50.0	50.3		ug/Kg		101	70 - 130
Chlorobromomethane	50.0	52.7		ug/Kg		105	70 - 130
Bromoform	50.0	57.0		ug/Kg		114	59 - 158
Bromomethane	50.0	49.9		ug/Kg		100	59 - 132
2-Butanone (MEK)	250	300		ug/Kg		120	53 - 124
n-Butylbenzene	50.0	50.9		ug/Kg		102	70 - 142
sec-Butylbenzene	50.0	50.2		ug/Kg		100	70 - 136
tert-Butylbenzene	50.0	50.4		ug/Kg		101	70 - 130
Carbon disulfide	50.0	49.5		ug/Kg		99	60 - 140
Carbon tetrachloride	50.0	53.3		ug/Kg		107	70 - 138
Chlorobenzene	50.0	51.4		ug/Kg		103	70 - 130
Chloroethane	50.0	47.6		ug/Kg		95	65 - 130
Chloroform	50.0	50.8		ug/Kg		102	77 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-149057/5
Matrix: Solid
Analysis Batch: 149057

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	42.1		ug/Kg		84	55 - 140
2-Chlorotoluene	50.0	49.8		ug/Kg		100	70 - 138
4-Chlorotoluene	50.0	49.0		ug/Kg		98	70 - 136
Chlorodibromomethane	50.0	55.9		ug/Kg		112	70 - 146
1,2-Dichlorobenzene	50.0	51.1		ug/Kg		102	70 - 130
1,3-Dichlorobenzene	50.0	52.3		ug/Kg		105	70 - 131
1,4-Dichlorobenzene	50.0	52.8		ug/Kg		106	70 - 130
1,3-Dichloropropane	50.0	55.4		ug/Kg		111	70 - 140
1,1-Dichloropropene	50.0	55.3		ug/Kg		111	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	53.7		ug/Kg		107	60 - 145
Ethylene Dibromide	50.0	56.7		ug/Kg		113	70 - 140
Dibromomethane	50.0	54.9		ug/Kg		110	70 - 139
Dichlorodifluoromethane	50.0	39.1		ug/Kg		78	37 - 158
1,1-Dichloroethane	50.0	49.4		ug/Kg		99	70 - 130
1,2-Dichloroethane	50.0	53.2		ug/Kg		106	70 - 130
1,1-Dichloroethene	50.0	47.7		ug/Kg		95	76 - 122
cis-1,2-Dichloroethene	50.0	51.9		ug/Kg		104	70 - 138
trans-1,2-Dichloroethene	50.0	50.8		ug/Kg		102	67 - 130
1,2-Dichloropropane	50.0	50.0		ug/Kg		100	73 - 127
cis-1,3-Dichloropropene	50.0	54.3		ug/Kg		109	68 - 147
trans-1,3-Dichloropropene	50.0	53.9		ug/Kg		108	70 - 136
Ethylbenzene	50.0	51.2		ug/Kg		102	80 - 137
Hexachlorobutadiene	50.0	52.2		ug/Kg		104	70 - 132
2-Hexanone	250	282		ug/Kg		113	44 - 133
Isopropylbenzene	50.0	53.1		ug/Kg		106	88 - 128
4-Isopropyltoluene	50.0	50.7		ug/Kg		101	70 - 133
Methylene Chloride	50.0	54.9		ug/Kg		110	70 - 134
4-Methyl-2-pentanone (MIBK)	250	283		ug/Kg		113	60 - 160
Naphthalene	50.0	55.1		ug/Kg		110	60 - 147
N-Propylbenzene	50.0	51.0		ug/Kg		102	70 - 130
Styrene	50.0	53.4		ug/Kg		107	70 - 130
1,1,1,2-Tetrachloroethane	50.0	53.3		ug/Kg		107	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.9		ug/Kg		104	70 - 146
Tetrachloroethene	50.0	56.8		ug/Kg		114	70 - 132
Toluene	50.0	50.1		ug/Kg		100	80 - 128
1,2,3-Trichlorobenzene	50.0	53.3		ug/Kg		107	60 - 140
1,2,4-Trichlorobenzene	50.0	53.7		ug/Kg		107	60 - 140
1,1,1-Trichloroethane	50.0	52.5		ug/Kg		105	70 - 130
1,1,2-Trichloroethane	50.0	55.4		ug/Kg		111	70 - 130
Trichloroethene	50.0	52.6		ug/Kg		105	70 - 133
Trichlorofluoromethane	50.0	46.7		ug/Kg		93	60 - 140
1,2,3-Trichloropropane	50.0	52.4		ug/Kg		105	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.6		ug/Kg		113	60 - 140
1,2,4-Trimethylbenzene	50.0	51.5		ug/Kg		103	70 - 130
1,3,5-Trimethylbenzene	50.0	50.8		ug/Kg		102	70 - 131
Vinyl acetate	50.0	72.7		ug/Kg		145	38 - 176
Vinyl chloride	50.0	42.0		ug/Kg		84	58 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-149057/5
Matrix: Solid
Analysis Batch: 149057

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	100	101		ug/Kg		101	70 - 146
o-Xylene	50.0	52.9		ug/Kg		106	70 - 140
2,2-Dichloropropane	50.0	49.6		ug/Kg		99	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: LCS 720-149057/7
Matrix: Solid
Analysis Batch: 149057

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1000		ug/Kg		100	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 140*
Toluene-d8 (Surr)	*96*		*58 - 140*

Lab Sample ID: LCSD 720-149057/6
Matrix: Solid
Analysis Batch: 149057

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	53.2		ug/Kg		106	70 - 144	4	20
Acetone	250	241		ug/Kg		96	30 - 162	6	30
Benzene	50.0	50.0		ug/Kg		100	70 - 130	1	20
Dichlorobromomethane	50.0	51.9		ug/Kg		104	70 - 131	1	20
Bromobenzene	50.0	49.5		ug/Kg		99	70 - 130	2	20
Chlorobromomethane	50.0	50.8		ug/Kg		102	70 - 130	4	20
Bromoform	50.0	55.5		ug/Kg		111	59 - 158	3	20
Bromomethane	50.0	47.6		ug/Kg		95	59 - 132	5	20
2-Butanone (MEK)	250	264		ug/Kg		106	53 - 124	13	20
n-Butylbenzene	50.0	50.4		ug/Kg		101	70 - 142	1	20
sec-Butylbenzene	50.0	49.9		ug/Kg		100	70 - 136	1	20
tert-Butylbenzene	50.0	49.7		ug/Kg		99	70 - 130	1	20
Carbon disulfide	50.0	49.1		ug/Kg		98	60 - 140	1	20
Carbon tetrachloride	50.0	53.6		ug/Kg		107	70 - 138	0	20
Chlorobenzene	50.0	51.1		ug/Kg		102	70 - 130	1	20
Chloroethane	50.0	46.3		ug/Kg		93	65 - 130	3	20
Chloroform	50.0	50.3		ug/Kg		101	77 - 127	1	20
Chloromethane	50.0	39.9		ug/Kg		80	55 - 140	5	20
2-Chlorotoluene	50.0	49.0		ug/Kg		98	70 - 138	2	20
4-Chlorotoluene	50.0	48.2		ug/Kg		96	70 - 136	2	20
Chlorodibromomethane	50.0	55.6		ug/Kg		111	70 - 146	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-149057/6
Matrix: Solid
Analysis Batch: 149057

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	49.6		ug/Kg		99	70 - 130	3	20
1,3-Dichlorobenzene	50.0	51.7		ug/Kg		103	70 - 131	1	20
1,4-Dichlorobenzene	50.0	52.1		ug/Kg		104	70 - 130	1	20
1,3-Dichloropropane	50.0	54.1		ug/Kg		108	70 - 140	2	20
1,1-Dichloropropene	50.0	54.7		ug/Kg		109	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	50.0	50.2		ug/Kg		100	60 - 145	7	20
Ethylene Dibromide	50.0	55.1		ug/Kg		110	70 - 140	3	20
Dibromomethane	50.0	53.7		ug/Kg		107	70 - 139	2	20
Dichlorodifluoromethane	50.0	38.0		ug/Kg		76	37 - 158	3	20
1,1-Dichloroethane	50.0	48.6		ug/Kg		97	70 - 130	2	20
1,2-Dichloroethane	50.0	51.9		ug/Kg		104	70 - 130	3	20
1,1-Dichloroethene	50.0	46.8		ug/Kg		94	76 - 122	2	20
cis-1,2-Dichloroethene	50.0	51.4		ug/Kg		103	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	49.5		ug/Kg		99	67 - 130	3	20
1,2-Dichloropropane	50.0	50.0		ug/Kg		100	73 - 127	0	20
cis-1,3-Dichloropropene	50.0	53.7		ug/Kg		107	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	53.3		ug/Kg		107	70 - 136	1	20
Ethylbenzene	50.0	51.3		ug/Kg		103	80 - 137	0	20
Hexachlorobutadiene	50.0	51.7		ug/Kg		103	70 - 132	1	20
2-Hexanone	250	261		ug/Kg		104	44 - 133	8	20
Isopropylbenzene	50.0	53.5		ug/Kg		107	88 - 128	1	20
4-Isopropyltoluene	50.0	50.3		ug/Kg		101	70 - 133	1	20
Methylene Chloride	50.0	52.9		ug/Kg		106	70 - 134	4	20
4-Methyl-2-pentanone (MIBK)	250	261		ug/Kg		105	60 - 160	8	20
Naphthalene	50.0	52.1		ug/Kg		104	60 - 147	6	20
N-Propylbenzene	50.0	50.4		ug/Kg		101	70 - 130	1	20
Styrene	50.0	53.2		ug/Kg		106	70 - 130	0	20
1,1,1,2-Tetrachloroethane	50.0	53.7		ug/Kg		107	70 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	48.2		ug/Kg		96	70 - 146	7	20
Tetrachloroethene	50.0	57.0		ug/Kg		114	70 - 132	0	20
Toluene	50.0	50.3		ug/Kg		101	80 - 128	0	20
1,2,3-Trichlorobenzene	50.0	52.2		ug/Kg		104	60 - 140	2	20
1,2,4-Trichlorobenzene	50.0	53.1		ug/Kg		106	60 - 140	1	20
1,1,1-Trichloroethane	50.0	52.5		ug/Kg		105	70 - 130	0	20
1,1,2-Trichloroethane	50.0	54.0		ug/Kg		108	70 - 130	3	20
Trichloroethene	50.0	52.6		ug/Kg		105	70 - 133	0	20
Trichlorofluoromethane	50.0	45.8		ug/Kg		92	60 - 140	2	20
1,2,3-Trichloropropane	50.0	48.5		ug/Kg		97	70 - 146	8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.3		ug/Kg		111	60 - 140	2	20
1,2,4-Trimethylbenzene	50.0	50.9		ug/Kg		102	70 - 130	1	20
1,3,5-Trimethylbenzene	50.0	50.5		ug/Kg		101	70 - 131	1	20
Vinyl acetate	50.0	69.2		ug/Kg		138	38 - 176	5	20
Vinyl chloride	50.0	41.5		ug/Kg		83	58 - 125	1	20
m-Xylene & p-Xylene	100	101		ug/Kg		101	70 - 146	1	20
o-Xylene	50.0	53.1		ug/Kg		106	70 - 140	0	20
2,2-Dichloropropane	50.0	49.8		ug/Kg		100	70 - 162	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-149057/6
Matrix: Solid
Analysis Batch: 149057

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*96*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: LCSD 720-149057/8
Matrix: Solid
Analysis Batch: 149057

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1030		ug/Kg		103	61 - 128	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*
Toluene-d8 (Surr)	*96*		*58 - 140*

Lab Sample ID: MB 720-149110/4
Matrix: Solid
Analysis Batch: 149110

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			11/27/13 10:57	1
Acetone	ND		50		ug/Kg			11/27/13 10:57	1
Benzene	ND		5.0		ug/Kg			11/27/13 10:57	1
Dichlorobromomethane	ND		5.0		ug/Kg			11/27/13 10:57	1
Bromobenzene	ND		5.0		ug/Kg			11/27/13 10:57	1
Chlorobromomethane	ND		20		ug/Kg			11/27/13 10:57	1
Bromoform	ND		5.0		ug/Kg			11/27/13 10:57	1
Bromomethane	ND		10		ug/Kg			11/27/13 10:57	1
2-Butanone (MEK)	ND		50		ug/Kg			11/27/13 10:57	1
n-Butylbenzene	ND		5.0		ug/Kg			11/27/13 10:57	1
sec-Butylbenzene	ND		5.0		ug/Kg			11/27/13 10:57	1
tert-Butylbenzene	ND		5.0		ug/Kg			11/27/13 10:57	1
Carbon disulfide	ND		5.0		ug/Kg			11/27/13 10:57	1
Carbon tetrachloride	ND		5.0		ug/Kg			11/27/13 10:57	1
Chlorobenzene	ND		5.0		ug/Kg			11/27/13 10:57	1
Chloroethane	ND		10		ug/Kg			11/27/13 10:57	1
Chloroform	ND		5.0		ug/Kg			11/27/13 10:57	1
Chloromethane	ND		10		ug/Kg			11/27/13 10:57	1
2-Chlorotoluene	ND		5.0		ug/Kg			11/27/13 10:57	1
4-Chlorotoluene	ND		5.0		ug/Kg			11/27/13 10:57	1
Chlorodibromomethane	ND		5.0		ug/Kg			11/27/13 10:57	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			11/27/13 10:57	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			11/27/13 10:57	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			11/27/13 10:57	1
1,3-Dichloropropane	ND		5.0		ug/Kg			11/27/13 10:57	1
1,1-Dichloropropene	ND		5.0		ug/Kg			11/27/13 10:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-149110/4
Matrix: Solid
Analysis Batch: 149110

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			11/27/13 10:57	1
Ethylene Dibromide	ND		5.0		ug/Kg			11/27/13 10:57	1
Dibromomethane	ND		10		ug/Kg			11/27/13 10:57	1
Dichlorodifluoromethane	ND		10		ug/Kg			11/27/13 10:57	1
1,1-Dichloroethane	ND		5.0		ug/Kg			11/27/13 10:57	1
1,2-Dichloroethane	ND		5.0		ug/Kg			11/27/13 10:57	1
1,1-Dichloroethene	ND		5.0		ug/Kg			11/27/13 10:57	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			11/27/13 10:57	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			11/27/13 10:57	1
1,2-Dichloropropane	ND		5.0		ug/Kg			11/27/13 10:57	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			11/27/13 10:57	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			11/27/13 10:57	1
Ethylbenzene	ND		5.0		ug/Kg			11/27/13 10:57	1
Hexachlorobutadiene	ND		5.0		ug/Kg			11/27/13 10:57	1
2-Hexanone	ND		50		ug/Kg			11/27/13 10:57	1
Isopropylbenzene	ND		5.0		ug/Kg			11/27/13 10:57	1
4-Isopropyltoluene	ND		5.0		ug/Kg			11/27/13 10:57	1
Methylene Chloride	ND		10		ug/Kg			11/27/13 10:57	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			11/27/13 10:57	1
Naphthalene	ND		10		ug/Kg			11/27/13 10:57	1
N-Propylbenzene	ND		5.0		ug/Kg			11/27/13 10:57	1
Styrene	ND		5.0		ug/Kg			11/27/13 10:57	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			11/27/13 10:57	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			11/27/13 10:57	1
Tetrachloroethene	ND		5.0		ug/Kg			11/27/13 10:57	1
Toluene	ND		5.0		ug/Kg			11/27/13 10:57	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			11/27/13 10:57	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			11/27/13 10:57	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			11/27/13 10:57	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			11/27/13 10:57	1
Trichloroethene	ND		5.0		ug/Kg			11/27/13 10:57	1
Trichlorofluoromethane	ND		5.0		ug/Kg			11/27/13 10:57	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			11/27/13 10:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			11/27/13 10:57	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			11/27/13 10:57	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			11/27/13 10:57	1
Vinyl acetate	ND		50		ug/Kg			11/27/13 10:57	1
Vinyl chloride	ND		5.0		ug/Kg			11/27/13 10:57	1
Xylenes, Total	ND		10		ug/Kg			11/27/13 10:57	1
2,2-Dichloropropane	ND		5.0		ug/Kg			11/27/13 10:57	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			11/27/13 10:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*45 - 131*		*11/27/13 10:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*		*11/27/13 10:57*	*1*
Toluene-d8 (Surr)	*96*		*58 - 140*		*11/27/13 10:57*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-149110/13
Matrix: Solid
Analysis Batch: 149110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	51.8		ug/Kg		104	70 - 144
Acetone	250	246		ug/Kg		98	30 - 162
Benzene	50.0	50.3		ug/Kg		101	70 - 130
Dichlorobromomethane	50.0	50.8		ug/Kg		102	70 - 131
Bromobenzene	50.0	49.8		ug/Kg		100	70 - 130
Chlorobromomethane	50.0	51.2		ug/Kg		102	70 - 130
Bromoform	50.0	54.5		ug/Kg		109	59 - 158
Bromomethane	50.0	49.0		ug/Kg		98	59 - 132
2-Butanone (MEK)	250	275		ug/Kg		110	53 - 124
n-Butylbenzene	50.0	51.2		ug/Kg		102	70 - 142
sec-Butylbenzene	50.0	50.3		ug/Kg		101	70 - 136
tert-Butylbenzene	50.0	50.2		ug/Kg		100	70 - 130
Carbon disulfide	50.0	49.8		ug/Kg		100	60 - 140
Carbon tetrachloride	50.0	54.2		ug/Kg		108	70 - 138
Chlorobenzene	50.0	50.9		ug/Kg		102	70 - 130
Chloroethane	50.0	47.2		ug/Kg		94	65 - 130
Chloroform	50.0	50.4		ug/Kg		101	77 - 127
Chloromethane	50.0	41.4		ug/Kg		83	55 - 140
2-Chlorotoluene	50.0	49.4		ug/Kg		99	70 - 138
4-Chlorotoluene	50.0	48.3		ug/Kg		97	70 - 136
Chlorodibromomethane	50.0	53.9		ug/Kg		108	70 - 146
1,2-Dichlorobenzene	50.0	49.7		ug/Kg		99	70 - 130
1,3-Dichlorobenzene	50.0	51.7		ug/Kg		103	70 - 131
1,4-Dichlorobenzene	50.0	52.0		ug/Kg		104	70 - 130
1,3-Dichloropropane	50.0	52.7		ug/Kg		105	70 - 140
1,1-Dichloropropene	50.0	55.4		ug/Kg		111	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	47.7		ug/Kg		95	60 - 145
Ethylene Dibromide	50.0	53.8		ug/Kg		108	70 - 140
Dibromomethane	50.0	52.3		ug/Kg		105	70 - 139
Dichlorodifluoromethane	50.0	38.2		ug/Kg		76	37 - 158
1,1-Dichloroethane	50.0	48.8		ug/Kg		98	70 - 130
1,2-Dichloroethane	50.0	50.6		ug/Kg		101	70 - 130
1,1-Dichloroethene	50.0	47.3		ug/Kg		95	76 - 122
cis-1,2-Dichloroethene	50.0	51.4		ug/Kg		103	70 - 138
trans-1,2-Dichloroethene	50.0	50.0		ug/Kg		100	67 - 130
1,2-Dichloropropane	50.0	49.2		ug/Kg		98	73 - 127
cis-1,3-Dichloropropene	50.0	53.1		ug/Kg		106	68 - 147
trans-1,3-Dichloropropene	50.0	52.7		ug/Kg		105	70 - 136
Ethylbenzene	50.0	51.3		ug/Kg		103	80 - 137
Hexachlorobutadiene	50.0	51.7		ug/Kg		103	70 - 132
2-Hexanone	250	257		ug/Kg		103	44 - 133
Isopropylbenzene	50.0	53.5		ug/Kg		107	88 - 128
4-Isopropyltoluene	50.0	50.5		ug/Kg		101	70 - 133
Methylene Chloride	50.0	55.9		ug/Kg		112	70 - 134
4-Methyl-2-pentanone (MIBK)	250	260		ug/Kg		104	60 - 160
Naphthalene	50.0	50.6		ug/Kg		101	60 - 147
N-Propylbenzene	50.0	51.1		ug/Kg		102	70 - 130
Styrene	50.0	53.0		ug/Kg		106	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-149110/13
Matrix: Solid
Analysis Batch: 149110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.5		ug/Kg		105	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.7		ug/Kg		95	70 - 146
Tetrachloroethene	50.0	56.9		ug/Kg		114	70 - 132
Toluene	50.0	50.4		ug/Kg		101	80 - 128
1,2,3-Trichlorobenzene	50.0	51.1		ug/Kg		102	60 - 140
1,2,4-Trichlorobenzene	50.0	52.7		ug/Kg		105	60 - 140
1,1,1-Trichloroethane	50.0	53.2		ug/Kg		106	70 - 130
1,1,2-Trichloroethane	50.0	52.7		ug/Kg		105	70 - 130
Trichloroethene	50.0	53.2		ug/Kg		106	70 - 133
Trichlorofluoromethane	50.0	45.9		ug/Kg		92	60 - 140
1,2,3-Trichloropropane	50.0	47.7		ug/Kg		95	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.3		ug/Kg		113	60 - 140
1,2,4-Trimethylbenzene	50.0	50.9		ug/Kg		102	70 - 130
1,3,5-Trimethylbenzene	50.0	51.1		ug/Kg		102	70 - 131
Vinyl acetate	50.0	69.1		ug/Kg		138	38 - 176
Vinyl chloride	50.0	43.0		ug/Kg		86	58 - 125
m-Xylene & p-Xylene	100	101		ug/Kg		101	70 - 146
o-Xylene	50.0	52.7		ug/Kg		105	70 - 140
2,2-Dichloropropane	50.0	51.5		ug/Kg		103	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: LCS 720-149110/7
Matrix: Solid
Analysis Batch: 149110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	985		ug/Kg		98	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*
Toluene-d8 (Surr)	*96*		*58 - 140*

Lab Sample ID: LCSD 720-149110/14
Matrix: Solid
Analysis Batch: 149110

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	53.2		ug/Kg		106	70 - 144	3	20
Acetone	250	244		ug/Kg		98	30 - 162	1	30
Benzene	50.0	50.6		ug/Kg		101	70 - 130	1	20
Dichlorobromomethane	50.0	51.5		ug/Kg		103	70 - 131	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-149110/14
Matrix: Solid
Analysis Batch: 149110

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	50.5		ug/Kg		101	70 - 130	1	20
Chlorobromomethane	50.0	51.6		ug/Kg		103	70 - 130	1	20
Bromoform	50.0	54.0		ug/Kg		108	59 - 158	1	20
Bromomethane	50.0	48.2		ug/Kg		96	59 - 132	2	20
2-Butanone (MEK)	250	284		ug/Kg		114	53 - 124	3	20
n-Butylbenzene	50.0	50.7		ug/Kg		101	70 - 142	1	20
sec-Butylbenzene	50.0	50.5		ug/Kg		101	70 - 136	0	20
tert-Butylbenzene	50.0	50.1		ug/Kg		100	70 - 130	0	20
Carbon disulfide	50.0	49.0		ug/Kg		98	60 - 140	2	20
Carbon tetrachloride	50.0	54.6		ug/Kg		109	70 - 138	1	20
Chlorobenzene	50.0	50.4		ug/Kg		101	70 - 130	1	20
Chloroethane	50.0	46.3		ug/Kg		93	65 - 130	2	20
Chloroform	50.0	51.1		ug/Kg		102	77 - 127	2	20
Chloromethane	50.0	41.4		ug/Kg		83	55 - 140	0	20
2-Chlorotoluene	50.0	49.8		ug/Kg		100	70 - 138	1	20
4-Chlorotoluene	50.0	48.7		ug/Kg		97	70 - 136	1	20
Chlorodibromomethane	50.0	55.0		ug/Kg		110	70 - 146	2	20
1,2-Dichlorobenzene	50.0	50.5		ug/Kg		101	70 - 130	2	20
1,3-Dichlorobenzene	50.0	51.9		ug/Kg		104	70 - 131	0	20
1,4-Dichlorobenzene	50.0	52.6		ug/Kg		105	70 - 130	1	20
1,3-Dichloropropane	50.0	53.9		ug/Kg		108	70 - 140	2	20
1,1-Dichloropropene	50.0	55.9		ug/Kg		112	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	50.0	49.3		ug/Kg		99	60 - 145	3	20
Ethylene Dibromide	50.0	55.2		ug/Kg		110	70 - 140	3	20
Dibromomethane	50.0	53.4		ug/Kg		107	70 - 139	2	20
Dichlorodifluoromethane	50.0	37.5		ug/Kg		75	37 - 158	2	20
1,1-Dichloroethane	50.0	49.5		ug/Kg		99	70 - 130	1	20
1,2-Dichloroethane	50.0	52.1		ug/Kg		104	70 - 130	3	20
1,1-Dichloroethene	50.0	47.3		ug/Kg		95	76 - 122	0	20
cis-1,2-Dichloroethene	50.0	52.4		ug/Kg		105	70 - 138	2	20
trans-1,2-Dichloroethene	50.0	50.6		ug/Kg		101	67 - 130	1	20
1,2-Dichloropropane	50.0	50.3		ug/Kg		101	73 - 127	2	20
cis-1,3-Dichloropropene	50.0	54.0		ug/Kg		108	68 - 147	2	20
trans-1,3-Dichloropropene	50.0	53.6		ug/Kg		107	70 - 136	2	20
Ethylbenzene	50.0	50.4		ug/Kg		101	80 - 137	2	20
Hexachlorobutadiene	50.0	51.7		ug/Kg		103	70 - 132	0	20
2-Hexanone	250	260		ug/Kg		104	44 - 133	1	20
Isopropylbenzene	50.0	52.5		ug/Kg		105	88 - 128	2	20
4-Isopropyltoluene	50.0	50.4		ug/Kg		101	70 - 133	0	20
Methylene Chloride	50.0	56.1		ug/Kg		112	70 - 134	0	20
4-Methyl-2-pentanone (MIBK)	250	264		ug/Kg		105	60 - 160	1	20
Naphthalene	50.0	51.5		ug/Kg		103	60 - 147	2	20
N-Propylbenzene	50.0	50.7		ug/Kg		101	70 - 130	1	20
Styrene	50.0	52.5		ug/Kg		105	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	52.8		ug/Kg		106	70 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	48.9		ug/Kg		98	70 - 146	2	20
Tetrachloroethene	50.0	57.4		ug/Kg		115	70 - 132	1	20
Toluene	50.0	49.8		ug/Kg		100	80 - 128	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-149110/14
Matrix: Solid
Analysis Batch: 149110

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene			50.0	52.3		ug/Kg		105	60 - 140	2	20
1,2,4-Trichlorobenzene			50.0	52.9		ug/Kg		106	60 - 140	0	20
1,1,1-Trichloroethane			50.0	53.4		ug/Kg		107	70 - 130	0	20
1,1,2-Trichloroethane			50.0	54.3		ug/Kg		109	70 - 130	3	20
Trichloroethene			50.0	53.4		ug/Kg		107	70 - 133	0	20
Trichlorofluoromethane			50.0	45.8		ug/Kg		92	60 - 140	0	20
1,2,3-Trichloropropane			50.0	48.8		ug/Kg		98	70 - 146	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	56.8		ug/Kg		114	60 - 140	1	20
1,2,4-Trimethylbenzene			50.0	51.5		ug/Kg		103	70 - 130	1	20
1,3,5-Trimethylbenzene			50.0	50.9		ug/Kg		102	70 - 131	0	20
Vinyl acetate			50.0	70.2		ug/Kg		140	38 - 176	2	20
Vinyl chloride			50.0	41.6		ug/Kg		83	58 - 125	3	20
m-Xylene & p-Xylene			100	99.4		ug/Kg		99	70 - 146	2	20
o-Xylene			50.0	52.2		ug/Kg		104	70 - 140	1	20
2,2-Dichloropropane			50.0	50.7		ug/Kg		101	70 - 162	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: LCSD 720-149110/8
Matrix: Solid
Analysis Batch: 149110

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1070		ug/Kg		107	61 - 128	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*
Toluene-d8 (Surr)	*96*		*58 - 140*

Lab Sample ID: MB 720-149153/4
Matrix: Solid
Analysis Batch: 149153

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			11/27/13 14:52	1
Acetone	ND		50		ug/Kg			11/27/13 14:52	1
Benzene	ND		5.0		ug/Kg			11/27/13 14:52	1
Dichlorobromomethane	ND		5.0		ug/Kg			11/27/13 14:52	1
Bromobenzene	ND		5.0		ug/Kg			11/27/13 14:52	1
Chlorobromomethane	ND		20		ug/Kg			11/27/13 14:52	1
Bromoform	ND		5.0		ug/Kg			11/27/13 14:52	1
Bromomethane	ND		10		ug/Kg			11/27/13 14:52	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-149153/4
Matrix: Solid
Analysis Batch: 149153

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		50		ug/Kg			11/27/13 14:52	1
n-Butylbenzene	ND		5.0		ug/Kg			11/27/13 14:52	1
sec-Butylbenzene	ND		5.0		ug/Kg			11/27/13 14:52	1
tert-Butylbenzene	ND		5.0		ug/Kg			11/27/13 14:52	1
Carbon disulfide	ND		5.0		ug/Kg			11/27/13 14:52	1
Carbon tetrachloride	ND		5.0		ug/Kg			11/27/13 14:52	1
Chlorobenzene	ND		5.0		ug/Kg			11/27/13 14:52	1
Chloroethane	ND		10		ug/Kg			11/27/13 14:52	1
Chloroform	ND		5.0		ug/Kg			11/27/13 14:52	1
Chloromethane	ND		10		ug/Kg			11/27/13 14:52	1
2-Chlorotoluene	ND		5.0		ug/Kg			11/27/13 14:52	1
4-Chlorotoluene	ND		5.0		ug/Kg			11/27/13 14:52	1
Chlorodibromomethane	ND		5.0		ug/Kg			11/27/13 14:52	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			11/27/13 14:52	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			11/27/13 14:52	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			11/27/13 14:52	1
1,3-Dichloropropane	ND		5.0		ug/Kg			11/27/13 14:52	1
1,1-Dichloropropene	ND		5.0		ug/Kg			11/27/13 14:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			11/27/13 14:52	1
Ethylene Dibromide	ND		5.0		ug/Kg			11/27/13 14:52	1
Dibromomethane	ND		10		ug/Kg			11/27/13 14:52	1
Dichlorodifluoromethane	ND		10		ug/Kg			11/27/13 14:52	1
1,1-Dichloroethane	ND		5.0		ug/Kg			11/27/13 14:52	1
1,2-Dichloroethane	ND		5.0		ug/Kg			11/27/13 14:52	1
1,1-Dichloroethene	ND		5.0		ug/Kg			11/27/13 14:52	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			11/27/13 14:52	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			11/27/13 14:52	1
1,2-Dichloropropane	ND		5.0		ug/Kg			11/27/13 14:52	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			11/27/13 14:52	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			11/27/13 14:52	1
Ethylbenzene	ND		5.0		ug/Kg			11/27/13 14:52	1
Hexachlorobutadiene	ND		5.0		ug/Kg			11/27/13 14:52	1
2-Hexanone	ND		50		ug/Kg			11/27/13 14:52	1
Isopropylbenzene	ND		5.0		ug/Kg			11/27/13 14:52	1
4-Isopropyltoluene	ND		5.0		ug/Kg			11/27/13 14:52	1
Methylene Chloride	ND		10		ug/Kg			11/27/13 14:52	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			11/27/13 14:52	1
Naphthalene	ND		10		ug/Kg			11/27/13 14:52	1
N-Propylbenzene	ND		5.0		ug/Kg			11/27/13 14:52	1
Styrene	ND		5.0		ug/Kg			11/27/13 14:52	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			11/27/13 14:52	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			11/27/13 14:52	1
Tetrachloroethene	ND		5.0		ug/Kg			11/27/13 14:52	1
Toluene	ND		5.0		ug/Kg			11/27/13 14:52	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			11/27/13 14:52	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			11/27/13 14:52	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			11/27/13 14:52	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			11/27/13 14:52	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-149153/4
Matrix: Solid
Analysis Batch: 149153

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		5.0		ug/Kg			11/27/13 14:52	1
Trichlorofluoromethane	ND		5.0		ug/Kg			11/27/13 14:52	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			11/27/13 14:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			11/27/13 14:52	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			11/27/13 14:52	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			11/27/13 14:52	1
Vinyl acetate	ND		50		ug/Kg			11/27/13 14:52	1
Vinyl chloride	ND		5.0		ug/Kg			11/27/13 14:52	1
Xylenes, Total	ND		10		ug/Kg			11/27/13 14:52	1
2,2-Dichloropropane	ND		5.0		ug/Kg			11/27/13 14:52	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			11/27/13 14:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*45 - 131*		*11/27/13 14:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 140*		*11/27/13 14:52*	*1*
Toluene-d8 (Surr)	*101*		*58 - 140*		*11/27/13 14:52*	*1*

Lab Sample ID: LCS 720-149153/5
Matrix: Solid
Analysis Batch: 149153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	51.6		ug/Kg		103	70 - 144
Acetone	250	251		ug/Kg		100	30 - 162
Benzene	50.0	49.5		ug/Kg		99	70 - 130
Dichlorobromomethane	50.0	49.5		ug/Kg		99	70 - 131
Bromobenzene	50.0	54.5		ug/Kg		109	70 - 130
Chlorobromomethane	50.0	48.5		ug/Kg		97	70 - 130
Bromoform	50.0	57.3		ug/Kg		115	59 - 158
Bromomethane	50.0	42.5		ug/Kg		85	59 - 132
2-Butanone (MEK)	250	257		ug/Kg		103	53 - 124
n-Butylbenzene	50.0	58.3		ug/Kg		117	70 - 142
sec-Butylbenzene	50.0	56.1		ug/Kg		112	70 - 136
tert-Butylbenzene	50.0	55.1		ug/Kg		110	70 - 130
Carbon disulfide	50.0	50.7		ug/Kg		101	60 - 140
Carbon tetrachloride	50.0	47.2		ug/Kg		94	70 - 138
Chlorobenzene	50.0	55.6		ug/Kg		111	70 - 130
Chloroethane	50.0	40.4		ug/Kg		81	65 - 130
Chloroform	50.0	48.3		ug/Kg		97	77 - 127
Chloromethane	50.0	47.3		ug/Kg		95	55 - 140
2-Chlorotoluene	50.0	56.2		ug/Kg		112	70 - 138
4-Chlorotoluene	50.0	55.6		ug/Kg		111	70 - 136
Chlorodibromomethane	50.0	53.4		ug/Kg		107	70 - 146
1,2-Dichlorobenzene	50.0	54.6		ug/Kg		109	70 - 130
1,3-Dichlorobenzene	50.0	55.5		ug/Kg		111	70 - 131
1,4-Dichlorobenzene	50.0	55.8		ug/Kg		112	70 - 130
1,3-Dichloropropane	50.0	55.6		ug/Kg		111	70 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-149153/5
Matrix: Solid
Analysis Batch: 149153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	50.0	53.6		ug/Kg		107	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	54.7		ug/Kg		109	60 - 145
Ethylene Dibromide	50.0	57.8		ug/Kg		116	70 - 140
Dibromomethane	50.0	53.2		ug/Kg		106	70 - 139
Dichlorodifluoromethane	50.0	36.4		ug/Kg		73	37 - 158
1,1-Dichloroethane	50.0	48.9		ug/Kg		98	70 - 130
1,2-Dichloroethane	50.0	47.6		ug/Kg		95	70 - 130
1,1-Dichloroethene	50.0	39.9		ug/Kg		80	76 - 122
cis-1,2-Dichloroethene	50.0	50.9		ug/Kg		102	70 - 138
trans-1,2-Dichloroethene	50.0	47.3		ug/Kg		95	67 - 130
1,2-Dichloropropane	50.0	52.7		ug/Kg		105	73 - 127
cis-1,3-Dichloropropene	50.0	55.8		ug/Kg		112	68 - 147
trans-1,3-Dichloropropene	50.0	58.0		ug/Kg		116	70 - 136
Ethylbenzene	50.0	55.7		ug/Kg		111	80 - 137
Hexachlorobutadiene	50.0	44.4		ug/Kg		89	70 - 132
2-Hexanone	250	255		ug/Kg		102	44 - 133
Isopropylbenzene	50.0	59.2		ug/Kg		118	88 - 128
4-Isopropyltoluene	50.0	54.3		ug/Kg		109	70 - 133
Methylene Chloride	50.0	51.2		ug/Kg		102	70 - 134
4-Methyl-2-pentanone (MIBK)	250	248		ug/Kg		99	60 - 160
Naphthalene	50.0	51.5		ug/Kg		103	60 - 147
N-Propylbenzene	50.0	57.8		ug/Kg		116	70 - 130
Styrene	50.0	59.0		ug/Kg		118	70 - 130
1,1,1,2-Tetrachloroethane	50.0	54.2		ug/Kg		108	70 - 130
1,1,2,2-Tetrachloroethane	50.0	55.9		ug/Kg		112	70 - 146
Tetrachloroethene	50.0	54.8		ug/Kg		110	70 - 132
Toluene	50.0	53.3		ug/Kg		107	80 - 128
1,2,3-Trichlorobenzene	50.0	49.1		ug/Kg		98	60 - 140
1,2,4-Trichlorobenzene	50.0	50.0		ug/Kg		100	60 - 140
1,1,1-Trichloroethane	50.0	47.5		ug/Kg		95	70 - 130
1,1,2-Trichloroethane	50.0	57.0		ug/Kg		114	70 - 130
Trichloroethene	50.0	52.4		ug/Kg		105	70 - 133
Trichlorofluoromethane	50.0	45.1		ug/Kg		90	60 - 140
1,2,3-Trichloropropane	50.0	55.3		ug/Kg		111	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.6		ug/Kg		95	60 - 140
1,2,4-Trimethylbenzene	50.0	57.3		ug/Kg		115	70 - 130
1,3,5-Trimethylbenzene	50.0	55.1		ug/Kg		110	70 - 131
Vinyl acetate	50.0	59.8		ug/Kg		120	38 - 176
Vinyl chloride	50.0	47.5		ug/Kg		95	58 - 125
m-Xylene & p-Xylene	100	112		ug/Kg		112	70 - 146
o-Xylene	50.0	58.5		ug/Kg		117	70 - 140
2,2-Dichloropropane	50.0	49.6		ug/Kg		99	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 140*
Toluene-d8 (Surr)	*102*		*58 - 140*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-149153/7
Matrix: Solid
Analysis Batch: 149153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			1000	902		ug/Kg		90	61 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*108*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*102*		*58 - 140*

Lab Sample ID: LCSD 720-149153/6
Matrix: Solid
Analysis Batch: 149153

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether			50.0	52.9		ug/Kg		106	70 - 144	3	20
Acetone			250	253		ug/Kg		101	30 - 162	1	30
Benzene			50.0	49.6		ug/Kg		99	70 - 130	0	20
Dichlorobromomethane			50.0	50.1		ug/Kg		100	70 - 131	1	20
Bromobenzene			50.0	50.7		ug/Kg		101	70 - 130	7	20
Chlorobromomethane			50.0	48.8		ug/Kg		98	70 - 130	1	20
Bromoform			50.0	53.0		ug/Kg		106	59 - 158	8	20
Bromomethane			50.0	42.0		ug/Kg		84	59 - 132	1	20
2-Butanone (MEK)			250	264		ug/Kg		106	53 - 124	3	20
n-Butylbenzene			50.0	55.4		ug/Kg		111	70 - 142	5	20
sec-Butylbenzene			50.0	53.0		ug/Kg		106	70 - 136	6	20
tert-Butylbenzene			50.0	51.5		ug/Kg		103	70 - 130	7	20
Carbon disulfide			50.0	50.5		ug/Kg		101	60 - 140	0	20
Carbon tetrachloride			50.0	46.2		ug/Kg		92	70 - 138	2	20
Chlorobenzene			50.0	52.8		ug/Kg		106	70 - 130	5	20
Chloroethane			50.0	38.6		ug/Kg		77	65 - 130	5	20
Chloroform			50.0	48.9		ug/Kg		98	77 - 127	1	20
Chloromethane			50.0	44.9		ug/Kg		90	55 - 140	5	20
2-Chlorotoluene			50.0	52.8		ug/Kg		106	70 - 138	6	20
4-Chlorotoluene			50.0	52.1		ug/Kg		104	70 - 136	6	20
Chlorodibromomethane			50.0	52.0		ug/Kg		104	70 - 146	3	20
1,2-Dichlorobenzene			50.0	52.5		ug/Kg		105	70 - 130	4	20
1,3-Dichlorobenzene			50.0	53.2		ug/Kg		106	70 - 131	4	20
1,4-Dichlorobenzene			50.0	52.5		ug/Kg		105	70 - 130	6	20
1,3-Dichloropropane			50.0	55.3		ug/Kg		111	70 - 140	1	20
1,1-Dichloropropene			50.0	54.0		ug/Kg		108	70 - 130	1	20
1,2-Dibromo-3-Chloropropane			50.0	52.3		ug/Kg		105	60 - 145	5	20
Ethylene Dibromide			50.0	56.7		ug/Kg		113	70 - 140	2	20
Dibromomethane			50.0	53.5		ug/Kg		107	70 - 139	0	20
Dichlorodifluoromethane			50.0	35.9		ug/Kg		72	37 - 158	1	20
1,1-Dichloroethane			50.0	48.6		ug/Kg		97	70 - 130	1	20
1,2-Dichloroethane			50.0	48.1		ug/Kg		96	70 - 130	1	20
1,1-Dichloroethene			50.0	38.3		ug/Kg		77	76 - 122	4	20
cis-1,2-Dichloroethene			50.0	50.2		ug/Kg		100	70 - 138	1	20
trans-1,2-Dichloroethene			50.0	46.6		ug/Kg		93	67 - 130	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-149153/6
Matrix: Solid
Analysis Batch: 149153

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	50.0	52.6		ug/Kg		105	73 - 127	0	20
cis-1,3-Dichloropropene	50.0	55.1		ug/Kg		110	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	58.6		ug/Kg		117	70 - 136	1	20
Ethylbenzene	50.0	53.5		ug/Kg		107	80 - 137	4	20
Hexachlorobutadiene	50.0	44.7		ug/Kg		89	70 - 132	1	20
2-Hexanone	250	257		ug/Kg		103	44 - 133	1	20
Isopropylbenzene	50.0	55.2		ug/Kg		110	88 - 128	7	20
4-Isopropyltoluene	50.0	52.3		ug/Kg		105	70 - 133	4	20
Methylene Chloride	50.0	50.4		ug/Kg		101	70 - 134	2	20
4-Methyl-2-pentanone (MIBK)	250	257		ug/Kg		103	60 - 160	4	20
Naphthalene	50.0	51.0		ug/Kg		102	60 - 147	1	20
N-Propylbenzene	50.0	53.9		ug/Kg		108	70 - 130	7	20
Styrene	50.0	55.8		ug/Kg		112	70 - 130	6	20
1,1,1,2-Tetrachloroethane	50.0	51.1		ug/Kg		102	70 - 130	6	20
1,1,2,2-Tetrachloroethane	50.0	52.4		ug/Kg		105	70 - 146	7	20
Tetrachloroethene	50.0	54.4		ug/Kg		109	70 - 132	1	20
Toluene	50.0	52.1		ug/Kg		104	80 - 128	2	20
1,2,3-Trichlorobenzene	50.0	48.5		ug/Kg		97	60 - 140	1	20
1,2,4-Trichlorobenzene	50.0	50.2		ug/Kg		100	60 - 140	0	20
1,1,1-Trichloroethane	50.0	46.5		ug/Kg		93	70 - 130	2	20
1,1,2-Trichloroethane	50.0	56.0		ug/Kg		112	70 - 130	2	20
Trichloroethene	50.0	51.7		ug/Kg		103	70 - 133	1	20
Trichlorofluoromethane	50.0	44.3		ug/Kg		89	60 - 140	2	20
1,2,3-Trichloropropane	50.0	51.4		ug/Kg		103	70 - 146	7	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.8		ug/Kg		90	60 - 140	6	20
1,2,4-Trimethylbenzene	50.0	54.8		ug/Kg		110	70 - 130	4	20
1,3,5-Trimethylbenzene	50.0	52.1		ug/Kg		104	70 - 131	6	20
Vinyl acetate	50.0	61.5		ug/Kg		123	38 - 176	3	20
Vinyl chloride	50.0	47.2		ug/Kg		94	58 - 125	1	20
m-Xylene & p-Xylene	100	107		ug/Kg		107	70 - 146	4	20
o-Xylene	50.0	55.5		ug/Kg		111	70 - 140	5	20
2,2-Dichloropropane	50.0	47.1		ug/Kg		94	70 - 162	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 140*
Toluene-d8 (Surr)	*102*		*58 - 140*

Lab Sample ID: LCSD 720-149153/8
Matrix: Solid
Analysis Batch: 149153

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	1000	880		ug/Kg		88	61 - 128	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-149153/8
Matrix: Solid
Analysis Batch: 149153

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	105		45 - 131
1,2-Dichloroethane-d4 (Surr)	98		60 - 140
Toluene-d8 (Surr)	102		58 - 140

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-149305/1-A
Matrix: Solid
Analysis Batch: 149316

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 149305

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/Kg		12/02/13 14:02	12/02/13 21:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	63		33 - 120	12/02/13 14:02	12/02/13 21:33	1
Terphenyl-d14	82		35 - 146	12/02/13 14:02	12/02/13 21:33	1

Lab Sample ID: LCS 720-149305/2-A
Matrix: Solid
Analysis Batch: 149316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 149305

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	332	235		ug/Kg		71	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	73		33 - 120
Terphenyl-d14	85		35 - 146

Lab Sample ID: LCSD 720-149305/3-A
Matrix: Solid
Analysis Batch: 149316

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 149305

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	329	243		ug/Kg		74	46 - 120	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	75		33 - 120
Terphenyl-d14	85		35 - 146

Lab Sample ID: 720-54027-4 MS
Matrix: Solid
Analysis Batch: 149316

Client Sample ID: TS3-S1(5.0)
Prep Type: Total/NA
Prep Batch: 149305

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	ND		332	243		ug/Kg		73	32 - 120

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: 720-54027-4 MS
Matrix: Solid
Analysis Batch: 149316

Client Sample ID: TS3-S1(5.0)
Prep Type: Total/NA
Prep Batch: 149305

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	72		33 - 120
Terphenyl-d14	87		35 - 146

Lab Sample ID: 720-54027-4 MSD
Matrix: Solid
Analysis Batch: 149316

Client Sample ID: TS3-S1(5.0)
Prep Type: Total/NA
Prep Batch: 149305

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	ND		331	242		ug/Kg		73	32 - 120	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl	72		33 - 120
Terphenyl-d14	88		35 - 146

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-149039/1-A
Matrix: Solid
Analysis Batch: 149114

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 149039

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		11/26/13 11:16	11/27/13 11:30	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/26/13 11:16	11/27/13 11:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 1	11/26/13 11:16	11/27/13 11:30	1
p-Terphenyl	101		38 - 148	11/26/13 11:16	11/27/13 11:30	1

Lab Sample ID: LCS 720-149039/2-A
Matrix: Solid
Analysis Batch: 149114

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 149039

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.5	75.1		mg/Kg		91	36 - 112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	117		38 - 148

Lab Sample ID: LCSD 720-149039/3-A
Matrix: Solid
Analysis Batch: 149114

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 149039

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	83.2	77.5		mg/Kg		93	36 - 112	3	35

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-149039/3-A
Matrix: Solid
Analysis Batch: 149114

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 149039

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	112		38 - 148

Lab Sample ID: 720-54027-1 MS
Matrix: Solid
Analysis Batch: 149113

Client Sample ID: TS1-B1
Prep Type: Silica Gel Cleanup
Prep Batch: 149039

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	52		83.3	125		mg/Kg		88	50 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	84		38 - 148

Lab Sample ID: 720-54027-1 MSD
Matrix: Solid
Analysis Batch: 149113

Client Sample ID: TS1-B1
Prep Type: Silica Gel Cleanup
Prep Batch: 149039

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	52		82.9	121		mg/Kg		83	50 - 150	3	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	81		38 - 148

Lab Sample ID: MB 720-149125/1-A
Matrix: Solid
Analysis Batch: 149113

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 149125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		11/27/13 08:29	11/27/13 23:03	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/27/13 08:29	11/27/13 23:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.001		0 - 1	11/27/13 08:29	11/27/13 23:03	1
p-Terphenyl	106		38 - 148	11/27/13 08:29	11/27/13 23:03	1

Lab Sample ID: LCS 720-149125/2-A
Matrix: Solid
Analysis Batch: 149113

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 149125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.2	69.0		mg/Kg		83	36 - 112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	105		38 - 148

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-149125/3-A
Matrix: Solid
Analysis Batch: 149113

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 149125

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			83.3	70.2		mg/Kg		84	36 - 112	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*107*		*38 - 148*

Lab Sample ID: MB 720-149227/1-A
Matrix: Solid
Analysis Batch: 149188

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 149227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		11/29/13 14:12	11/30/13 01:52	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/29/13 14:12	11/30/13 01:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*11/29/13 14:12*	*11/30/13 01:52*	*1*
p-Terphenyl	*112*		*38 - 148*	*11/29/13 14:12*	*11/30/13 01:52*	*1*

Lab Sample ID: LCS 720-149227/2-A
Matrix: Solid
Analysis Batch: 149188

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 149227

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			82.8	59.7		mg/Kg		72	36 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*100*		*38 - 148*

Lab Sample ID: LCSD 720-149227/3-A
Matrix: Solid
Analysis Batch: 149188

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 149227

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.8	60.1		mg/Kg		73	36 - 112	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*100*		*38 - 148*

Lab Sample ID: 720-54027-22 MS
Matrix: Solid
Analysis Batch: 149188

Client Sample ID: LF-SPOILSC COMP
Prep Type: Silica Gel Cleanup
Prep Batch: 149227

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	20		82.6	64.7		mg/Kg		54	50 - 150

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-54027-22 MS
Matrix: Solid
Analysis Batch: 149188

Client Sample ID: LF-SPOILSC COMP
Prep Type: Silica Gel Cleanup
Prep Batch: 149227

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	*90*		*38 - 148*

Lab Sample ID: 720-54027-22 MSD
Matrix: Solid
Analysis Batch: 149188

Client Sample ID: LF-SPOILSC COMP
Prep Type: Silica Gel Cleanup
Prep Batch: 149227

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	20		83.2	70.7		mg/Kg		61	50 - 150	9	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	*78*		*38 - 148*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-149178/1-A
Matrix: Solid
Analysis Batch: 149384

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 149178

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		11/27/13 20:36	12/03/13 13:30	1
Arsenic	ND		1.0		mg/Kg		11/27/13 20:36	12/03/13 13:30	1
Barium	ND		0.50		mg/Kg		11/27/13 20:36	12/03/13 13:30	1
Beryllium	ND		0.10		mg/Kg		11/27/13 20:36	12/03/13 13:30	1
Cadmium	ND		0.13		mg/Kg		11/27/13 20:36	12/03/13 13:30	1
Chromium	ND		0.50		mg/Kg		11/27/13 20:36	12/03/13 13:30	1
Cobalt	ND		0.20		mg/Kg		11/27/13 20:36	12/03/13 13:30	1
Copper	ND		1.5		mg/Kg		11/27/13 20:36	12/03/13 13:30	1
Lead	ND		0.50		mg/Kg		11/27/13 20:36	12/03/13 13:30	1
Molybdenum	ND		0.50		mg/Kg		11/27/13 20:36	12/03/13 13:30	1
Nickel	ND		0.50		mg/Kg		11/27/13 20:36	12/03/13 13:30	1
Selenium	ND		1.0		mg/Kg		11/27/13 20:36	12/03/13 13:30	1
Silver	ND		0.25		mg/Kg		11/27/13 20:36	12/03/13 13:30	1
Thallium	ND		0.50		mg/Kg		11/27/13 20:36	12/03/13 13:30	1
Vanadium	ND		0.50		mg/Kg		11/27/13 20:36	12/03/13 13:30	1
Zinc	ND		1.5		mg/Kg		11/27/13 20:36	12/03/13 13:30	1

Lab Sample ID: LCS 720-149178/2-A
Matrix: Solid
Analysis Batch: 149384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 149178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	51.4		mg/Kg		103	80 - 120
Arsenic	50.0	49.8		mg/Kg		100	80 - 120
Barium	50.0	51.6		mg/Kg		103	80 - 120
Beryllium	50.0	50.3		mg/Kg		101	80 - 120
Cadmium	50.0	51.9		mg/Kg		104	80 - 120
Chromium	50.0	49.1		mg/Kg		98	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-149178/2-A
Matrix: Solid
Analysis Batch: 149384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 149178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	50.0	52.4		mg/Kg		105	80 - 120
Copper	50.0	50.8		mg/Kg		102	80 - 120
Lead	50.0	51.4		mg/Kg		103	80 - 120
Molybdenum	50.0	51.5		mg/Kg		103	80 - 120
Nickel	50.0	51.0		mg/Kg		102	80 - 120
Selenium	50.0	48.7		mg/Kg		97	80 - 120
Silver	25.0	22.9		mg/Kg		92	80 - 120
Thallium	50.0	52.3		mg/Kg		105	80 - 120
Vanadium	50.0	50.2		mg/Kg		100	80 - 120
Zinc	50.0	50.6		mg/Kg		101	80 - 120

Lab Sample ID: LCSD 720-149178/3-A
Matrix: Solid
Analysis Batch: 149384

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 149178

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	50.9		mg/Kg		102	80 - 120	1	20
Arsenic	50.0	49.7		mg/Kg		99	80 - 120	0	20
Barium	50.0	52.6		mg/Kg		105	80 - 120	2	20
Beryllium	50.0	50.9		mg/Kg		102	80 - 120	1	20
Cadmium	50.0	51.6		mg/Kg		103	80 - 120	1	20
Chromium	50.0	49.6		mg/Kg		99	80 - 120	1	20
Cobalt	50.0	52.1		mg/Kg		104	80 - 120	1	20
Copper	50.0	50.8		mg/Kg		102	80 - 120	0	20
Lead	50.0	51.1		mg/Kg		102	80 - 120	1	20
Molybdenum	50.0	51.3		mg/Kg		103	80 - 120	0	20
Nickel	50.0	50.7		mg/Kg		101	80 - 120	0	20
Selenium	50.0	48.8		mg/Kg		98	80 - 120	0	20
Silver	25.0	23.1		mg/Kg		92	80 - 120	0	20
Thallium	50.0	51.7		mg/Kg		103	80 - 120	1	20
Vanadium	50.0	50.5		mg/Kg		101	80 - 120	0	20
Zinc	50.0	50.4		mg/Kg		101	80 - 120	0	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-149211/1-A
Matrix: Solid
Analysis Batch: 149264

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 149211

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		11/29/13 11:52	11/30/13 12:11	1

Lab Sample ID: LCS 720-149211/2-A
Matrix: Solid
Analysis Batch: 149264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 149211

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.883		mg/Kg		106	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 720-149211/3-A
Matrix: Solid
Analysis Batch: 149264

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 149211

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.833	0.883		mg/Kg		106	80 - 120	0	20

GC/MS VOA

Analysis Batch: 149057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-17	LF-SPOILSB COMP	Total/NA	Solid	8260B	149086
LCS 720-149057/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-149057/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-149057/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-149057/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-149057/4	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 149086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-17	LF-SPOILSB COMP	Total/NA	Solid	5030B	

Analysis Batch: 149110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-22	LF-SPOILSC COMP	Total/NA	Solid	8260B	149152
720-54027-27	SL-SPOILS COMP	Total/NA	Solid	8260B	149152
LCS 720-149110/13	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-149110/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-149110/14	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-149110/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-149110/4	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 149152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-22	LF-SPOILSC COMP	Total/NA	Solid	5030B	
720-54027-27	SL-SPOILS COMP	Total/NA	Solid	5030B	

Analysis Batch: 149153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-12	LF-SPOILSA COMP	Total/NA	Solid	8260B	149169
LCS 720-149153/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-149153/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-149153/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-149153/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-149153/4	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 149169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-12	LF-SPOILSA COMP	Total/NA	Solid	5030B	

GC/MS Semi VOA

Prep Batch: 149305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-4	TS3-S1(5.0)	Total/NA	Solid	3546	
720-54027-4 MS	TS3-S1(5.0)	Total/NA	Solid	3546	
720-54027-4 MSD	TS3-S1(5.0)	Total/NA	Solid	3546	
LCS 720-149305/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-149305/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-149305/1-A	Method Blank	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Analysis Batch: 149316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-4	TS3-S1(5.0)	Total/NA	Solid	8270C SIM	149305
720-54027-4 MS	TS3-S1(5.0)	Total/NA	Solid	8270C SIM	149305
720-54027-4 MSD	TS3-S1(5.0)	Total/NA	Solid	8270C SIM	149305
LCS 720-149305/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	149305
LCSD 720-149305/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	149305
MB 720-149305/1-A	Method Blank	Total/NA	Solid	8270C SIM	149305

GC Semi VOA

Prep Batch: 149039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-1	TS1-B1	Silica Gel Cleanup	Solid	3546	
720-54027-1 MS	TS1-B1	Silica Gel Cleanup	Solid	3546	
720-54027-1 MSD	TS1-B1	Silica Gel Cleanup	Solid	3546	
720-54027-2	TS2-B1	Silica Gel Cleanup	Solid	3546	
720-54027-3	TS3-B1	Silica Gel Cleanup	Solid	3546	
720-54027-4	TS3-S1(5.0)	Silica Gel Cleanup	Solid	3546	
720-54027-5	TS4-B1	Silica Gel Cleanup	Solid	3546	
LCS 720-149039/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-149039/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-149039/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 149113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-1	TS1-B1	Silica Gel Cleanup	Solid	8015B	149039
720-54027-1 MS	TS1-B1	Silica Gel Cleanup	Solid	8015B	149039
720-54027-1 MSD	TS1-B1	Silica Gel Cleanup	Solid	8015B	149039
720-54027-2	TS2-B1	Silica Gel Cleanup	Solid	8015B	149039
720-54027-3	TS3-B1	Silica Gel Cleanup	Solid	8015B	149039
720-54027-4	TS3-S1(5.0)	Silica Gel Cleanup	Solid	8015B	149039
720-54027-5	TS4-B1	Silica Gel Cleanup	Solid	8015B	149039
LCS 720-149125/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	149125
LCSD 720-149125/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	149125
MB 720-149125/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	149125

Analysis Batch: 149114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-149039/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	149039
LCSD 720-149039/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	149039
MB 720-149039/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	149039

Prep Batch: 149125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-6	CS-B10	Silica Gel Cleanup	Solid	3546	
720-54027-7	CS-B11	Silica Gel Cleanup	Solid	3546	
720-54027-12	LF-SPOILSA COMP	Silica Gel Cleanup	Solid	3546	
720-54027-17	LF-SPOILSB COMP	Silica Gel Cleanup	Solid	3546	
LCS 720-149125/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-149125/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-149125/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

GC Semi VOA (Continued)

Analysis Batch: 149188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-22	LF-SPOILSC COMP	Silica Gel Cleanup	Solid	8015B	149227
720-54027-22 MS	LF-SPOILSC COMP	Silica Gel Cleanup	Solid	8015B	149227
720-54027-22 MSD	LF-SPOILSC COMP	Silica Gel Cleanup	Solid	8015B	149227
720-54027-27	SL-SPOILS COMP	Silica Gel Cleanup	Solid	8015B	149227
LCS 720-149227/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	149227
LCSD 720-149227/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	149227
MB 720-149227/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	149227

Analysis Batch: 149189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-6	CS-B10	Silica Gel Cleanup	Solid	8015B	149125
720-54027-7	CS-B11	Silica Gel Cleanup	Solid	8015B	149125
720-54027-12	LF-SPOILSA COMP	Silica Gel Cleanup	Solid	8015B	149125
720-54027-17	LF-SPOILSB COMP	Silica Gel Cleanup	Solid	8015B	149125

Prep Batch: 149227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-22	LF-SPOILSC COMP	Silica Gel Cleanup	Solid	3546	
720-54027-22 MS	LF-SPOILSC COMP	Silica Gel Cleanup	Solid	3546	
720-54027-22 MSD	LF-SPOILSC COMP	Silica Gel Cleanup	Solid	3546	
720-54027-27	SL-SPOILS COMP	Silica Gel Cleanup	Solid	3546	
LCS 720-149227/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-149227/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-149227/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Metals

Prep Batch: 149178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-12	LF-SPOILSA COMP	Total/NA	Solid	3050B	
720-54027-17	LF-SPOILSB COMP	Total/NA	Solid	3050B	
720-54027-22	LF-SPOILSC COMP	Total/NA	Solid	3050B	
720-54027-27	SL-SPOILS COMP	Total/NA	Solid	3050B	
LCS 720-149178/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-149178/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-149178/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 149211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-12	LF-SPOILSA COMP	Total/NA	Solid	7471A	
720-54027-17	LF-SPOILSB COMP	Total/NA	Solid	7471A	
720-54027-22	LF-SPOILSC COMP	Total/NA	Solid	7471A	
720-54027-27	SL-SPOILS COMP	Total/NA	Solid	7471A	
LCS 720-149211/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-149211/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-149211/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 149264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-12	LF-SPOILSA COMP	Total/NA	Solid	7471A	149211

Metals (Continued)

Analysis Batch: 149264 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-17	LF-SPOILSB COMP	Total/NA	Solid	7471A	149211
720-54027-22	LF-SPOILSC COMP	Total/NA	Solid	7471A	149211
720-54027-27	SL-SPOILS COMP	Total/NA	Solid	7471A	149211
LCS 720-149211/2-A	Lab Control Sample	Total/NA	Solid	7471A	149211
LCSD 720-149211/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	149211
MB 720-149211/1-A	Method Blank	Total/NA	Solid	7471A	149211

Analysis Batch: 149384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-12	LF-SPOILSA COMP	Total/NA	Solid	6010B	149178
720-54027-17	LF-SPOILSB COMP	Total/NA	Solid	6010B	149178
720-54027-22	LF-SPOILSC COMP	Total/NA	Solid	6010B	149178
720-54027-27	SL-SPOILS COMP	Total/NA	Solid	6010B	149178
LCS 720-149178/2-A	Lab Control Sample	Total/NA	Solid	6010B	149178
LCSD 720-149178/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	149178
MB 720-149178/1-A	Method Blank	Total/NA	Solid	6010B	149178

Client Sample ID: TS1-B1

Lab Sample ID: 720-54027-1

Date Collected: 11/25/13 13:30

Matrix: Solid

Date Received: 11/25/13 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149039	11/26/13 11:16	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149113	11/27/13 16:08	DCH	TAL PLS

Client Sample ID: TS2-B1

Lab Sample ID: 720-54027-2

Date Collected: 11/25/13 13:35

Matrix: Solid

Date Received: 11/25/13 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149039	11/26/13 11:16	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149113	11/27/13 15:44	DCH	TAL PLS

Client Sample ID: TS3-B1

Lab Sample ID: 720-54027-3

Date Collected: 11/25/13 13:37

Matrix: Solid

Date Received: 11/25/13 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149039	11/26/13 11:16	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149113	11/27/13 14:07	DCH	TAL PLS

Client Sample ID: TS3-S1(5.0)

Lab Sample ID: 720-54027-4

Date Collected: 11/25/13 13:40

Matrix: Solid

Date Received: 11/25/13 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			149305	12/02/13 14:02	MRP	TAL PLS
Total/NA	Analysis	8270C SIM		1	149316	12/02/13 21:56	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			149039	11/26/13 11:16	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149113	11/27/13 18:10	DCH	TAL PLS

Client Sample ID: TS4-B1

Lab Sample ID: 720-54027-5

Date Collected: 11/25/13 13:45

Matrix: Solid

Date Received: 11/25/13 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149039	11/26/13 11:16	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	149113	11/27/13 19:23	DCH	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: CS-B10

Lab Sample ID: 720-54027-6

Date Collected: 11/25/13 13:50

Matrix: Solid

Date Received: 11/25/13 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149125	11/27/13 08:29	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149189	11/29/13 15:44	JL	TAL PLS

Client Sample ID: CS-B11

Lab Sample ID: 720-54027-7

Date Collected: 11/25/13 13:55

Matrix: Solid

Date Received: 11/25/13 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149125	11/27/13 08:29	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149189	11/29/13 14:56	JL	TAL PLS

Client Sample ID: LF-SPOILSA COMP

Lab Sample ID: 720-54027-12

Date Collected: 11/25/13 11:50

Matrix: Solid

Date Received: 11/25/13 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			149169	11/27/13 16:22	LPL	TAL PLS
Total/NA	Analysis	8260B		1	149153	11/27/13 21:24	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			149125	11/27/13 08:29	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149189	11/29/13 17:21	JL	TAL PLS
Total/NA	Prep	7471A			149211	11/29/13 11:52	ASB	TAL PLS
Total/NA	Analysis	7471A		1	149264	11/30/13 12:42	CAM	TAL PLS
Total/NA	Prep	3050B			149178	11/27/13 20:36	CTD	TAL PLS
Total/NA	Analysis	6010B		4	149384	12/03/13 14:23	SLK	TAL PLS

Client Sample ID: LF-SPOILSB COMP

Lab Sample ID: 720-54027-17

Date Collected: 11/25/13 11:55

Matrix: Solid

Date Received: 11/25/13 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			149086	11/26/13 17:46	LPL	TAL PLS
Total/NA	Analysis	8260B		1	149057	11/27/13 01:51	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			149125	11/27/13 08:29	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149189	11/29/13 13:43	JL	TAL PLS
Total/NA	Prep	7471A			149211	11/29/13 11:52	ASB	TAL PLS
Total/NA	Analysis	7471A		1	149264	11/30/13 12:44	CAM	TAL PLS
Total/NA	Prep	3050B			149178	11/27/13 20:36	CTD	TAL PLS
Total/NA	Analysis	6010B		4	149384	12/03/13 14:28	SLK	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Client Sample ID: LF-SPOILSC COMP

Lab Sample ID: 720-54027-22

Date Collected: 11/25/13 12:00

Matrix: Solid

Date Received: 11/25/13 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			149152	11/27/13 10:00	PDR	TAL PLS
Total/NA	Analysis	8260B		1	149110	11/27/13 18:47	LPL	TAL PLS
Silica Gel Cleanup	Prep	3546			149227	11/29/13 14:12	RLU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149188	11/30/13 00:39	JL	TAL PLS
Total/NA	Prep	7471A			149211	11/29/13 11:52	ASB	TAL PLS
Total/NA	Analysis	7471A		1	149264	11/30/13 12:47	CAM	TAL PLS
Total/NA	Prep	3050B			149178	11/27/13 20:36	CTD	TAL PLS
Total/NA	Analysis	6010B		4	149384	12/03/13 14:32	SLK	TAL PLS

Client Sample ID: SL-SPOILS COMP

Lab Sample ID: 720-54027-27

Date Collected: 11/25/13 12:10

Matrix: Solid

Date Received: 11/25/13 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			149152	11/27/13 10:00	PDR	TAL PLS
Total/NA	Analysis	8260B		1	149110	11/27/13 19:15	LPL	TAL PLS
Silica Gel Cleanup	Prep	3546			149227	11/29/13 14:12	RLU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149188	11/29/13 23:26	JL	TAL PLS
Total/NA	Prep	7471A			149211	11/29/13 11:52	ASB	TAL PLS
Total/NA	Analysis	7471A		1	149264	11/30/13 12:49	CAM	TAL PLS
Total/NA	Prep	3050B			149178	11/27/13 20:36	CTD	TAL PLS
Total/NA	Analysis	6010B		4	149384	12/03/13 14:36	SLK	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-54027-1	TS1-B1	Solid	11/25/13 13:30	11/25/13 15:25
720-54027-2	TS2-B1	Solid	11/25/13 13:35	11/25/13 15:25
720-54027-3	TS3-B1	Solid	11/25/13 13:37	11/25/13 15:25
720-54027-4	TS3-S1(5.0)	Solid	11/25/13 13:40	11/25/13 15:25
720-54027-5	TS4-B1	Solid	11/25/13 13:45	11/25/13 15:25
720-54027-6	CS-B10	Solid	11/25/13 13:50	11/25/13 15:25
720-54027-7	CS-B11	Solid	11/25/13 13:55	11/25/13 15:25
720-54027-12	LF-SPOILSA COMP	Solid	11/25/13 11:50	11/25/13 15:25
720-54027-17	LF-SPOILSB COMP	Solid	11/25/13 11:55	11/25/13 15:25
720-54027-22	LF-SPOILSC COMP	Solid	11/25/13 12:00	11/25/13 15:25
720-54027-27	SL-SPOILS COMP	Solid	11/25/13 12:10	11/25/13 15:25

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-54027

Reference #: 150333

Date 11/25/13 Page 1 of 2

12/3/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St. Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT~~BSM~~ JS
Attn: Accounts Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C Naphthalene only	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1684/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ WET (STLC) ☐ WET (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
TS1-B1	11/25/13	1330	Soil	Ice				X																		1
TS2-B1	11/25/13	1335	Soil	Ice				X																		1
TS3-B1	11/25/13	1337	Soil	Ice				X																		1
TS3-S1(5.0)	11/25/13	1340	Soil	Ice				X	X																	1
TS4-B1	11/25/13	1345	Soil	Ice				X																		1
CS-B10	11/25/13	1350	Soil	Ice				X																		1
CS-B11	11/25/13	1355	Soil	Ice				X																		1

Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: #39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 4.2°

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1525	Signature:	Time:
Printed Name: Vincent Tolotter Date: 11/25/13	Printed Name:	Date:
Company: Haley & Aldrich	Company:	Company:

720-54027 Chain of Custody

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1525	Signature: Time:	Signature: Time:
Printed Name: M Mullen Date: 11-25-13	Printed Name: Date:	Printed Name: Date:
Company: TestAmerica	Company:	Company:

Rev 10/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 150333

Date 11/25/13 Page 2 of 2

720 - 54027

12/3/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St. Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT, BSM JS
Attn: Accounts Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☒ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	Semi Volatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Please Make 4 water samples composite		Number of Containers
LF-spoils A	11/25/13	1150	Soil	Ice	X		X	X					X										X		4
LF-spoils B	11/25/13	1155	Soil	Ice	X		X	X					X										X		4
LF-spoils C	11/25/13	1200	Soil	Ice	X		X	X					X										XX		4
SL-spoils	11/25/13	1210	Soil	Ice	X		X	X					X										X		4

Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: #39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 4.2°

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1525	Signature: Time:	Signature: Time:
Printed Name: Vincent Tilotta Date: 11/25/13	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1525	Signature: Time:	Signature: Time:
Printed Name: Mullen Date: 11-25-13	Printed Name: Date:	Printed Name: Date:
Company: [illegible]	Company:	Company:

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-54027-1

Login Number: 54027

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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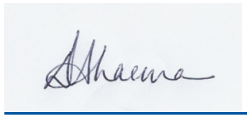
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-54027-2
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz



Authorized for release by:
1/7/2014 12:22:37 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-54027-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-54027-2

Comments
No additional comments.

Receipt
The samples were received on 11/25/2013 3:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2º C.

GC/MS Semi VOA
No analytical or quality issues were noted.

GC Semi VOA
Method 8081A: The following samples was prepared outside the method defined holding time because the request for the test was made after the holding time for the sample expired: LF-SPOILSA COMP (720-54027-12), LF-SPOILSB COMP (720-54027-17), LF-SPOILSC COMP (720-54027-22).

Method 8270C: The following sample was prepared and/or analyzed outside the method defined holding time because the request for the test was made after the holding time for the sample expired: LF-SPOILSA COMP (720-54027-12), LF-SPOILSB COMP (720-54027-17), LF-SPOILSC COMP (720-54027-22).

Method 8082: The following sample was prepared and/or analyzed outside the method defined holding time because the request for the test was made after the holding time for the sample expired: LF-SPOILSA COMP (720-54027-12), LF-SPOILSB COMP (720-54027-17), LF-SPOILSC COMP (720-54027-22).

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-2

Client Sample ID: LF-SPOILSA COMP — Lab Sample ID: 720-54027-12

No Detections.

Client Sample ID: LF-SPOILSB COMP — Lab Sample ID: 720-54027-17

No Detections.

Client Sample ID: LF-SPOILSC COMP — Lab Sample ID: 720-54027-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.10	H	0.066		mg/Kg	1		8270C	Total/NA
Pyrene	0.15	H	0.066		mg/Kg	1		8270C	Total/NA
Chrysene	0.098	H	0.066		mg/Kg	1		8270C	Total/NA
Benzo[a]pyrene	0.072	H	0.066		mg/Kg	1		8270C	Total/NA
Chromium	0.13		0.10		mg/L	1		6010B	STLC Citrate

Client Sample ID: SL-SPOILS COMP — Lab Sample ID: 720-54027-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.10		0.10		mg/L	1		6010B	STLC Citrate

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-2

Client Sample ID: LF-SPOILSA COMP
Date Collected: 11/25/13 11:50
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-12
Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Bis(2-chloroethyl)ether	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
2-Chlorophenol	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
1,3-Dichlorobenzene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
1,4-Dichlorobenzene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Benzyl alcohol	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
1,2-Dichlorobenzene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
2-Methylphenol	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Methylphenol, 3 & 4	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
N-Nitrosodi-n-propylamine	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Hexachloroethane	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Nitrobenzene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Isophorone	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
2-Nitrophenol	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
2,4-Dimethylphenol	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Bis(2-chloroethoxy)methane	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
2,4-Dichlorophenol	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
1,2,4-Trichlorobenzene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Naphthalene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
4-Chloroaniline	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Hexachlorobutadiene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
4-Chloro-3-methylphenol	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
2-Methylnaphthalene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Hexachlorocyclopentadiene	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
2,4,6-Trichlorophenol	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
2,4,5-Trichlorophenol	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
2-Chloronaphthalene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
2-Nitroaniline	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Dimethyl phthalate	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Acenaphthylene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
3-Nitroaniline	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Acenaphthene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
2,4-Dinitrophenol	ND	H	0.66		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
4-Nitrophenol	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Dibenzofuran	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
2,4-Dinitrotoluene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
2,6-Dinitrotoluene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Diethyl phthalate	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
4-Chlorophenyl phenyl ether	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Fluorene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
4-Nitroaniline	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
2-Methyl-4,6-dinitrophenol	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
N-Nitrosodiphenylamine	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
4-Bromophenyl phenyl ether	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Hexachlorobenzene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Pentachlorophenol	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Phenanthrene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Anthracene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Di-n-butyl phthalate	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:39	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-2

Client Sample ID: LF-SPOILSA COMP
Date Collected: 11/25/13 11:50
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-12
Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Pyrene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Butyl benzyl phthalate	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
3,3'-Dichlorobenzidine	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Benzo[a]anthracene	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Bis(2-ethylhexyl) phthalate	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Chrysene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Di-n-octyl phthalate	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Benzo[b]fluoranthene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Benzo[a]pyrene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Benzo[k]fluoranthene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Indeno[1,2,3-cd]pyrene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Benzo[g,h,i]perylene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Benzoic acid	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Azobenzene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1
Dibenz(a,h)anthracene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*57*		*21 - 98*	*01/03/14 10:02*	*01/03/14 16:39*	*1*
2-Fluorobiphenyl	*65*		*30 - 112*	*01/03/14 10:02*	*01/03/14 16:39*	*1*
Terphenyl-d14	*81*		*32 - 117*	*01/03/14 10:02*	*01/03/14 16:39*	*1*
2-Fluorophenol	*46*		*28 - 98*	*01/03/14 10:02*	*01/03/14 16:39*	*1*
Phenol-d5	*56*		*23 - 101*	*01/03/14 10:02*	*01/03/14 16:39*	*1*
2,4,6-Tribromophenol	*68*		*37 - 114*	*01/03/14 10:02*	*01/03/14 16:39*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
Dieldrin	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
Endrin aldehyde	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
Endrin	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
Endrin ketone	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
Heptachlor	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
Heptachlor epoxide	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
4,4'-DDT	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
4,4'-DDE	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
4,4'-DDD	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
Endosulfan I	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
Endosulfan II	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
alpha-BHC	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
beta-BHC	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
gamma-BHC (Lindane)	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
delta-BHC	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
Endosulfan sulfate	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
Methoxychlor	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
Toxaphene	ND	H	40		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
Chlordane (technical)	ND	H	40		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
alpha-Chlordane	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1
gamma-Chlordane	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 00:53	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-2

Client Sample ID: LF-SPOILSA COMP
Date Collected: 11/25/13 11:50
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-12
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*99*		*57 - 122*	*01/03/14 09:54*	*01/04/14 00:53*	*1*
DCB Decachlorobiphenyl	*106*		*21 - 136*	*01/03/14 09:54*	*01/04/14 00:53*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	H	50		ug/Kg		01/03/14 09:58	01/03/14 20:27	1
PCB-1221	ND	H	50		ug/Kg		01/03/14 09:58	01/03/14 20:27	1
PCB-1232	ND	H	50		ug/Kg		01/03/14 09:58	01/03/14 20:27	1
PCB-1242	ND	H	50		ug/Kg		01/03/14 09:58	01/03/14 20:27	1
PCB-1248	ND	H	50		ug/Kg		01/03/14 09:58	01/03/14 20:27	1
PCB-1254	ND	H	50		ug/Kg		01/03/14 09:58	01/03/14 20:27	1
PCB-1260	ND	H	50		ug/Kg		01/03/14 09:58	01/03/14 20:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*72*		*45 - 132*	*01/03/14 09:58*	*01/03/14 20:27*	*1*
DCB Decachlorobiphenyl	*94*		*42 - 146*	*01/03/14 09:58*	*01/03/14 20:27*	*1*

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10		mg/L		01/06/14 10:24	01/06/14 15:39	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-2

Client Sample ID: LF-SPOILSB COMP
Date Collected: 11/25/13 11:55
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-17
Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Bis(2-chloroethyl)ether	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
2-Chlorophenol	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
1,3-Dichlorobenzene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
1,4-Dichlorobenzene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Benzyl alcohol	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
1,2-Dichlorobenzene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
2-Methylphenol	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Methylphenol, 3 & 4	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
N-Nitrosodi-n-propylamine	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Hexachloroethane	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Nitrobenzene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Isophorone	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
2-Nitrophenol	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
2,4-Dimethylphenol	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Bis(2-chloroethoxy)methane	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
2,4-Dichlorophenol	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
1,2,4-Trichlorobenzene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Naphthalene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
4-Chloroaniline	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Hexachlorobutadiene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
4-Chloro-3-methylphenol	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
2-Methylnaphthalene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Hexachlorocyclopentadiene	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
2,4,6-Trichlorophenol	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
2,4,5-Trichlorophenol	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
2-Chloronaphthalene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
2-Nitroaniline	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Dimethyl phthalate	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Acenaphthylene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
3-Nitroaniline	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Acenaphthene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
2,4-Dinitrophenol	ND	H	0.66		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
4-Nitrophenol	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Dibenzofuran	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
2,4-Dinitrotoluene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
2,6-Dinitrotoluene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Diethyl phthalate	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
4-Chlorophenyl phenyl ether	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Fluorene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
4-Nitroaniline	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
2-Methyl-4,6-dinitrophenol	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
N-Nitrosodiphenylamine	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
4-Bromophenyl phenyl ether	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Hexachlorobenzene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Pentachlorophenol	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Phenanthrene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Anthracene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Di-n-butyl phthalate	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 17:04	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-2

Client Sample ID: LF-SPOILSB COMP
Date Collected: 11/25/13 11:55
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-17
Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Pyrene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Butyl benzyl phthalate	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
3,3'-Dichlorobenzidine	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Benzo[a]anthracene	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Bis(2-ethylhexyl) phthalate	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Chrysene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Di-n-octyl phthalate	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Benzo[b]fluoranthene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Benzo[a]pyrene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Benzo[k]fluoranthene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Indeno[1,2,3-cd]pyrene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Benzo[g,h,i]perylene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Benzoic acid	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Azobenzene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1
Dibenz(a,h)anthracene	ND	H	0.067		mg/Kg		01/03/14 10:02	01/03/14 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*59*		*21 - 98*	*01/03/14 10:02*	*01/03/14 17:04*	*1*
2-Fluorobiphenyl	*66*		*30 - 112*	*01/03/14 10:02*	*01/03/14 17:04*	*1*
Terphenyl-d14	*80*		*32 - 117*	*01/03/14 10:02*	*01/03/14 17:04*	*1*
2-Fluorophenol	*49*		*28 - 98*	*01/03/14 10:02*	*01/03/14 17:04*	*1*
Phenol-d5	*57*		*23 - 101*	*01/03/14 10:02*	*01/03/14 17:04*	*1*
2,4,6-Tribromophenol	*65*		*37 - 114*	*01/03/14 10:02*	*01/03/14 17:04*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
Dieldrin	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
Endrin aldehyde	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
Endrin	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
Endrin ketone	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
Heptachlor	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
Heptachlor epoxide	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
4,4'-DDT	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
4,4'-DDE	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
4,4'-DDD	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
Endosulfan I	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
Endosulfan II	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
alpha-BHC	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
beta-BHC	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
gamma-BHC (Lindane)	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
delta-BHC	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
Endosulfan sulfate	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
Methoxychlor	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
Toxaphene	ND	H	39		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
Chlordane (technical)	ND	H	39		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
alpha-Chlordane	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1
gamma-Chlordane	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:10	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-2

Client Sample ID: LF-SPOILSB COMP
Date Collected: 11/25/13 11:55
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-17
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*102*		*57 - 122*	*01/03/14 09:54*	*01/04/14 01:10*	*1*
DCB Decachlorobiphenyl	*99*		*21 - 136*	*01/03/14 09:54*	*01/04/14 01:10*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	H	49		ug/Kg		01/03/14 09:58	01/03/14 20:27	1
PCB-1221	ND	H	49		ug/Kg		01/03/14 09:58	01/03/14 20:27	1
PCB-1232	ND	H	49		ug/Kg		01/03/14 09:58	01/03/14 20:27	1
PCB-1242	ND	H	49		ug/Kg		01/03/14 09:58	01/03/14 20:27	1
PCB-1248	ND	H	49		ug/Kg		01/03/14 09:58	01/03/14 20:27	1
PCB-1254	ND	H	49		ug/Kg		01/03/14 09:58	01/03/14 20:27	1
PCB-1260	ND	H	49		ug/Kg		01/03/14 09:58	01/03/14 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*45 - 132*	*01/03/14 09:58*	*01/03/14 20:27*	*1*
DCB Decachlorobiphenyl	*89*		*42 - 146*	*01/03/14 09:58*	*01/03/14 20:27*	*1*

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10		mg/L		01/06/14 10:24	01/06/14 15:53	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-2

Client Sample ID: LF-SPOILSC COMP
Date Collected: 11/25/13 12:00
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-22
Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Bis(2-chloroethyl)ether	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
2-Chlorophenol	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
1,3-Dichlorobenzene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
1,4-Dichlorobenzene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Benzyl alcohol	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
1,2-Dichlorobenzene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
2-Methylphenol	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Methylphenol, 3 & 4	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
N-Nitrosodi-n-propylamine	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Hexachloroethane	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Nitrobenzene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Isophorone	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
2-Nitrophenol	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
2,4-Dimethylphenol	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Bis(2-chloroethoxy)methane	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
2,4-Dichlorophenol	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
1,2,4-Trichlorobenzene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Naphthalene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
4-Chloroaniline	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Hexachlorobutadiene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
4-Chloro-3-methylphenol	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
2-Methylnaphthalene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Hexachlorocyclopentadiene	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
2,4,6-Trichlorophenol	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
2,4,5-Trichlorophenol	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
2-Chloronaphthalene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
2-Nitroaniline	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Dimethyl phthalate	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Acenaphthylene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
3-Nitroaniline	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Acenaphthene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
2,4-Dinitrophenol	ND	H	0.65		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
4-Nitrophenol	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Dibenzofuran	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
2,4-Dinitrotoluene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
2,6-Dinitrotoluene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Diethyl phthalate	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
4-Chlorophenyl phenyl ether	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Fluorene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
4-Nitroaniline	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
2-Methyl-4,6-dinitrophenol	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
N-Nitrosodiphenylamine	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
4-Bromophenyl phenyl ether	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Hexachlorobenzene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Pentachlorophenol	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Phenanthrene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Anthracene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Di-n-butyl phthalate	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:16	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-2

Client Sample ID: LF-SPOILSC COMP
Date Collected: 11/25/13 12:00
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-22
Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**0.10**	**H**	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Pyrene	**0.15**	**H**	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Butyl benzyl phthalate	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
3,3'-Dichlorobenzidine	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Benzo[a]anthracene	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Bis(2-ethylhexyl) phthalate	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Chrysene	**0.098**	**H**	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Di-n-octyl phthalate	ND	H	0.17		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Benzo[b]fluoranthene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Benzo[a]pyrene	**0.072**	**H**	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Benzo[k]fluoranthene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Indeno[1,2,3-cd]pyrene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Benzo[g,h,i]perylene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Benzoic acid	ND	H	0.33		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Azobenzene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1
Dibenz(a,h)anthracene	ND	H	0.066		mg/Kg		01/03/14 10:02	01/03/14 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*59*		*21 - 98*	*01/03/14 10:02*	*01/03/14 16:16*	*1*
2-Fluorobiphenyl	*65*		*30 - 112*	*01/03/14 10:02*	*01/03/14 16:16*	*1*
Terphenyl-d14	*78*		*32 - 117*	*01/03/14 10:02*	*01/03/14 16:16*	*1*
2-Fluorophenol	*50*		*28 - 98*	*01/03/14 10:02*	*01/03/14 16:16*	*1*
Phenol-d5	*55*		*23 - 101*	*01/03/14 10:02*	*01/03/14 16:16*	*1*
2,4,6-Tribromophenol	*67*		*37 - 114*	*01/03/14 10:02*	*01/03/14 16:16*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
Dieldrin	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
Endrin aldehyde	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
Endrin	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
Endrin ketone	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
Heptachlor	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
Heptachlor epoxide	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
4,4'-DDT	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
4,4'-DDE	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
4,4'-DDD	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
Endosulfan I	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
Endosulfan II	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
alpha-BHC	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
beta-BHC	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
gamma-BHC (Lindane)	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
delta-BHC	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
Endosulfan sulfate	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
Methoxychlor	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
Toxaphene	ND	H	40		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
Chlordane (technical)	ND	H	40		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
alpha-Chlordane	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1
gamma-Chlordane	ND	H	2.0		ug/Kg		01/03/14 09:54	01/04/14 01:27	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-2

Client Sample ID: LF-SPOILSC COMP
Date Collected: 11/25/13 12:00
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-22
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*107*		*57 - 122*	*01/03/14 09:54*	*01/04/14 01:27*	*1*
DCB Decachlorobiphenyl	*123*		*21 - 136*	*01/03/14 09:54*	*01/04/14 01:27*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	H	50		ug/Kg		01/03/14 09:58	01/03/14 20:44	1
PCB-1221	ND	H	50		ug/Kg		01/03/14 09:58	01/03/14 20:44	1
PCB-1232	ND	H	50		ug/Kg		01/03/14 09:58	01/03/14 20:44	1
PCB-1242	ND	H	50		ug/Kg		01/03/14 09:58	01/03/14 20:44	1
PCB-1248	ND	H	50		ug/Kg		01/03/14 09:58	01/03/14 20:44	1
PCB-1254	ND	H	50		ug/Kg		01/03/14 09:58	01/03/14 20:44	1
PCB-1260	ND	H	50		ug/Kg		01/03/14 09:58	01/03/14 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*72*		*45 - 132*	*01/03/14 09:58*	*01/03/14 20:44*	*1*
DCB Decachlorobiphenyl	*95*		*42 - 146*	*01/03/14 09:58*	*01/03/14 20:44*	*1*

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.13**		0.10		mg/L		01/06/14 10:24	01/06/14 15:58	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-2

Client Sample ID: SL-SPOILS COMP
Date Collected: 11/25/13 12:10
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-27
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.10		0.10		mg/L		01/06/14 10:24	01/06/14 16:03	1

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Lab Sample ID: MB 720-151100/1-A
Matrix: Solid
Analysis Batch: 151118

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 151100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Bis(2-chloroethyl)ether	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
2-Chlorophenol	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
1,3-Dichlorobenzene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
1,4-Dichlorobenzene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Benzyl alcohol	ND		0.17		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
1,2-Dichlorobenzene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
2-Methylphenol	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Methylphenol, 3 & 4	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
N-Nitrosodi-n-propylamine	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Hexachloroethane	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Nitrobenzene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Isophorone	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
2-Nitrophenol	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
2,4-Dimethylphenol	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
1,2,4-Trichlorobenzene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Naphthalene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
4-Chloroaniline	ND		0.17		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Hexachlorobutadiene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
2-Methylnaphthalene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
2,4,5-Trichlorophenol	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
2-Chloronaphthalene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
2-Nitroaniline	ND		0.33		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Dimethyl phthalate	ND		0.17		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Acenaphthylene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
3-Nitroaniline	ND		0.17		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Acenaphthene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
2,4-Dinitrophenol	ND		0.65		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
4-Nitrophenol	ND		0.33		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Dibenzofuran	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
2,4-Dinitrotoluene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
2,6-Dinitrotoluene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Diethyl phthalate	ND		0.17		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Fluorene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
4-Nitroaniline	ND		0.33		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
N-Nitrosodiphenylamine	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Hexachlorobenzene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Pentachlorophenol	ND		0.33		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Phenanthrene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Anthracene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: MB 720-151100/1-A
Matrix: Solid
Analysis Batch: 151118

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 151100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		0.17		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Fluoranthene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Pyrene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Benzo[a]anthracene	ND		0.33		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Chrysene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Benzo[b]fluoranthene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Benzo[a]pyrene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Benzo[k]fluoranthene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Indeno[1,2,3-cd]pyrene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Benzo[g,h,i]perylene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Benzoic acid	ND		0.33		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Azobenzene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1
Dibenz(a,h)anthracene	ND		0.066		mg/Kg		01/03/14 10:02	01/03/14 15:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*64*		*21 - 98*	*01/03/14 10:02*	*01/03/14 15:52*	*1*
2-Fluorobiphenyl	*71*		*30 - 112*	*01/03/14 10:02*	*01/03/14 15:52*	*1*
Terphenyl-d14	*75*		*32 - 117*	*01/03/14 10:02*	*01/03/14 15:52*	*1*
2-Fluorophenol	*53*		*28 - 98*	*01/03/14 10:02*	*01/03/14 15:52*	*1*
Phenol-d5	*64*		*23 - 101*	*01/03/14 10:02*	*01/03/14 15:52*	*1*
2,4,6-Tribromophenol	*63*		*37 - 114*	*01/03/14 10:02*	*01/03/14 15:52*	*1*

Lab Sample ID: LCS 720-151100/2-A
Matrix: Solid
Analysis Batch: 151118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 151100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.33	0.930		mg/Kg		70	48 - 115
Bis(2-chloroethyl)ether	1.33	0.827		mg/Kg		62	45 - 115
2-Chlorophenol	1.33	0.921		mg/Kg		69	48 - 115
1,3-Dichlorobenzene	1.33	0.823		mg/Kg		62	41 - 115
1,4-Dichlorobenzene	1.33	0.880		mg/Kg		66	40 - 115
Benzyl alcohol	1.33	0.880		mg/Kg		66	54 - 115
1,2-Dichlorobenzene	1.33	0.880		mg/Kg		66	44 - 115
2-Methylphenol	1.33	0.986		mg/Kg		74	54 - 115
Methylphenol, 3 & 4	1.33	0.965		mg/Kg		73	42 - 115
N-Nitrosodi-n-propylamine	1.33	0.910		mg/Kg		68	46 - 115
Hexachloroethane	1.33	0.831		mg/Kg		63	44 - 115
Nitrobenzene	1.33	0.899		mg/Kg		68	48 - 115
Isophorone	1.33	0.892		mg/Kg		67	54 - 115
2-Nitrophenol	1.33	0.933		mg/Kg		70	48 - 115
2,4-Dimethylphenol	1.33	0.968		mg/Kg		73	52 - 115
Bis(2-chloroethoxy)methane	1.33	0.897		mg/Kg		67	46 - 115

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-151100/2-A
Matrix: Solid
Analysis Batch: 151118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 151100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dichlorophenol	1.33	0.962		mg/Kg		72	49 - 100
1,2,4-Trichlorobenzene	1.33	0.904		mg/Kg		68	47 - 115
Naphthalene	1.33	0.987		mg/Kg		74	44 - 115
4-Chloroaniline	1.33	0.789		mg/Kg		59	30 - 115
Hexachlorobutadiene	1.33	0.925		mg/Kg		70	44 - 115
4-Chloro-3-methylphenol	1.33	0.996		mg/Kg		75	58 - 115
2-Methylnaphthalene	1.33	0.949		mg/Kg		71	49 - 115
Hexachlorocyclopentadiene	1.33	0.836		mg/Kg		63	42 - 132
2,4,6-Trichlorophenol	1.33	0.965		mg/Kg		73	45 - 115
2,4,5-Trichlorophenol	1.33	1.02		mg/Kg		77	48 - 115
2-Chloronaphthalene	1.33	0.977		mg/Kg		73	52 - 115
2-Nitroaniline	1.33	1.01		mg/Kg		76	54 - 115
Dimethyl phthalate	1.33	1.05		mg/Kg		79	64 - 119
Acenaphthylene	1.33	0.960		mg/Kg		72	61 - 129
3-Nitroaniline	1.33	0.875		mg/Kg		66	50 - 115
Acenaphthene	1.33	1.01		mg/Kg		76	50 - 115
2,4-Dinitrophenol	2.66	0.668		mg/Kg		25	15 - 115
4-Nitrophenol	2.66	2.32		mg/Kg		87	54 - 125
Dibenzofuran	1.33	1.01		mg/Kg		76	55 - 115
2,4-Dinitrotoluene	1.33	1.07		mg/Kg		80	57 - 115
2,6-Dinitrotoluene	1.33	1.04		mg/Kg		78	54 - 119
Diethyl phthalate	1.33	1.03		mg/Kg		78	49 - 117
4-Chlorophenyl phenyl ether	1.33	1.07		mg/Kg		80	57 - 115
Fluorene	1.33	1.03		mg/Kg		78	54 - 115
4-Nitroaniline	1.33	1.04		mg/Kg		78	59 - 115
2-Methyl-4,6-dinitrophenol	2.66	1.56		mg/Kg		59	39 - 115
N-Nitrosodiphenylamine	1.33	1.08		mg/Kg		81	56 - 115
4-Bromophenyl phenyl ether	1.33	1.03		mg/Kg		77	53 - 115
Hexachlorobenzene	1.33	1.01		mg/Kg		76	55 - 115
Pentachlorophenol	2.66	1.92		mg/Kg		72	35 - 115
Phenanthrene	1.33	1.05		mg/Kg		79	54 - 115
Anthracene	1.33	1.07		mg/Kg		81	55 - 115
Di-n-butyl phthalate	1.33	1.02		mg/Kg		77	55 - 115
Fluoranthene	1.33	1.00		mg/Kg		75	52 - 130
Pyrene	1.33	1.17		mg/Kg		88	48 - 115
Butyl benzyl phthalate	1.33	1.15		mg/Kg		87	53 - 115
3,3'-Dichlorobenzidine	1.33	0.912		mg/Kg		69	42 - 115
Benzo[a]anthracene	1.33	1.08		mg/Kg		81	55 - 115
Bis(2-ethylhexyl) phthalate	1.33	1.24		mg/Kg		93	53 - 115
Chrysene	1.33	1.14		mg/Kg		85	58 - 115
Di-n-octyl phthalate	1.33	1.13		mg/Kg		85	53 - 115
Benzo[b]fluoranthene	1.33	1.12		mg/Kg		84	50 - 119
Benzo[a]pyrene	1.33	1.11		mg/Kg		83	57 - 122
Benzo[k]fluoranthene	1.33	1.06		mg/Kg		79	55 - 120
Indeno[1,2,3-cd]pyrene	1.33	0.981		mg/Kg		74	56 - 115
Benzo[g,h,i]perylene	1.33	0.932		mg/Kg		70	56 - 115
Benzoic acid	1.33	0.461		mg/Kg		35	10 - 115

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-151100/2-A
Matrix: Solid
Analysis Batch: 151118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 151100

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Azobenzene			1.33	0.979		mg/Kg		74	52 - 115		
Dibenz(a,h)anthracene			1.33	0.995		mg/Kg		75	57 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*68*		*21 - 98*
2-Fluorobiphenyl	*71*		*30 - 112*
Terphenyl-d14	*81*		*32 - 117*
2-Fluorophenol	*56*		*28 - 98*
Phenol-d5	*68*		*23 - 101*
2,4,6-Tribromophenol	*76*		*37 - 114*

Lab Sample ID: LCSD 720-151100/3-A
Matrix: Solid
Analysis Batch: 151118

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 151100

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol			1.33	0.921		mg/Kg		69	48 - 115	1	35
Bis(2-chloroethyl)ether			1.33	0.810		mg/Kg		61	45 - 115	2	35
2-Chlorophenol			1.33	0.907		mg/Kg		68	48 - 115	2	35
1,3-Dichlorobenzene			1.33	0.810		mg/Kg		61	41 - 115	2	35
1,4-Dichlorobenzene			1.33	0.849		mg/Kg		64	40 - 115	4	35
Benzyl alcohol			1.33	0.856		mg/Kg		64	54 - 115	3	35
1,2-Dichlorobenzene			1.33	0.863		mg/Kg		65	44 - 115	2	35
2-Methylphenol			1.33	0.964		mg/Kg		72	54 - 115	2	35
Methylphenol, 3 & 4			1.33	0.950		mg/Kg		71	42 - 115	2	35
N-Nitrosodi-n-propylamine			1.33	0.882		mg/Kg		66	46 - 115	3	35
Hexachloroethane			1.33	0.829		mg/Kg		62	44 - 115	0	35
Nitrobenzene			1.33	0.886		mg/Kg		67	48 - 115	1	35
Isophorone			1.33	0.856		mg/Kg		64	54 - 115	4	35
2-Nitrophenol			1.33	0.928		mg/Kg		70	48 - 115	0	35
2,4-Dimethylphenol			1.33	0.896		mg/Kg		67	52 - 115	8	35
Bis(2-chloroethoxy)methane			1.33	0.865		mg/Kg		65	46 - 115	4	35
2,4-Dichlorophenol			1.33	0.951		mg/Kg		72	49 - 100	1	35
1,2,4-Trichlorobenzene			1.33	0.896		mg/Kg		67	47 - 115	1	35
Naphthalene			1.33	0.971		mg/Kg		73	44 - 115	2	35
4-Chloroaniline			1.33	0.784		mg/Kg		59	30 - 115	1	35
Hexachlorobutadiene			1.33	0.943		mg/Kg		71	44 - 115	2	35
4-Chloro-3-methylphenol			1.33	0.988		mg/Kg		74	58 - 115	1	35
2-Methylnaphthalene			1.33	0.944		mg/Kg		71	49 - 115	1	35
Hexachlorocyclopentadiene			1.33	0.825		mg/Kg		62	42 - 132	1	35
2,4,6-Trichlorophenol			1.33	0.952		mg/Kg		72	45 - 115	1	35
2,4,5-Trichlorophenol			1.33	0.967		mg/Kg		73	48 - 115	5	35
2-Chloronaphthalene			1.33	0.965		mg/Kg		73	52 - 115	1	35
2-Nitroaniline			1.33	0.992		mg/Kg		75	54 - 115	2	35
Dimethyl phthalate			1.33	1.01		mg/Kg		76	64 - 119	4	35
Acenaphthylene			1.33	0.941		mg/Kg		71	61 - 129	2	35
3-Nitroaniline			1.33	0.899		mg/Kg		68	50 - 115	3	35

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCSD 720-151100/3-A
Matrix: Solid
Analysis Batch: 151118

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 151100

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			1.33	0.991		mg/Kg		75	50 - 115	2	35
2,4-Dinitrophenol			2.66	ND		mg/Kg		23	15 - 115	10	35
4-Nitrophenol			2.66	2.28		mg/Kg		86	54 - 125	2	35
Dibenzofuran			1.33	0.991		mg/Kg		75	55 - 115	2	35
2,4-Dinitrotoluene			1.33	1.05		mg/Kg		79	57 - 115	1	35
2,6-Dinitrotoluene			1.33	1.02		mg/Kg		77	54 - 119	2	35
Diethyl phthalate			1.33	1.03		mg/Kg		77	49 - 117	0	35
4-Chlorophenyl phenyl ether			1.33	1.03		mg/Kg		77	57 - 115	4	35
Fluorene			1.33	1.02		mg/Kg		76	54 - 115	2	35
4-Nitroaniline			1.33	1.04		mg/Kg		78	59 - 115	0	35
2-Methyl-4,6-dinitrophenol			2.66	1.49		mg/Kg		56	39 - 115	4	35
N-Nitrosodiphenylamine			1.33	1.07		mg/Kg		80	56 - 115	1	35
4-Bromophenyl phenyl ether			1.33	1.01		mg/Kg		76	53 - 115	2	35
Hexachlorobenzene			1.33	1.01		mg/Kg		76	55 - 115	0	35
Pentachlorophenol			2.66	1.88		mg/Kg		71	35 - 115	2	35
Phenanthrene			1.33	1.06		mg/Kg		80	54 - 115	1	35
Anthracene			1.33	1.07		mg/Kg		80	55 - 115	1	35
Di-n-butyl phthalate			1.33	1.02		mg/Kg		77	55 - 115	0	35
Fluoranthene			1.33	1.02		mg/Kg		77	52 - 130	2	35
Pyrene			1.33	1.14		mg/Kg		86	48 - 115	3	35
Butyl benzyl phthalate			1.33	1.14		mg/Kg		86	53 - 115	1	35
3,3'-Dichlorobenzidine			1.33	0.919		mg/Kg		69	42 - 115	1	35
Benzo[a]anthracene			1.33	1.10		mg/Kg		82	55 - 115	1	35
Bis(2-ethylhexyl) phthalate			1.33	1.22		mg/Kg		92	53 - 115	1	35
Chrysene			1.33	1.14		mg/Kg		86	58 - 115	0	35
Di-n-octyl phthalate			1.33	1.12		mg/Kg		84	53 - 115	2	35
Benzo[b]fluoranthene			1.33	1.07		mg/Kg		80	50 - 119	4	35
Benzo[a]pyrene			1.33	1.12		mg/Kg		84	57 - 122	1	35
Benzo[k]fluoranthene			1.33	1.11		mg/Kg		84	55 - 120	5	35
Indeno[1,2,3-cd]pyrene			1.33	0.990		mg/Kg		74	56 - 115	1	35
Benzo[g,h,i]perylene			1.33	0.965		mg/Kg		73	56 - 115	3	35
Benzoic acid			1.33	0.392		mg/Kg		29	10 - 115	16	35
Azobenzene			1.33	0.974		mg/Kg		73	52 - 115	0	35
Dibenz(a,h)anthracene			1.33	1.00		mg/Kg		75	57 - 121	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*66*		*21 - 98*
2-Fluorobiphenyl	*70*		*30 - 112*
Terphenyl-d14	*79*		*32 - 117*
2-Fluorophenol	*60*		*28 - 98*
Phenol-d5	*67*		*23 - 101*
2,4,6-Tribromophenol	*74*		*37 - 114*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: 720-54027-22 MS
Matrix: Solid
Analysis Batch: 151118

Client Sample ID: LF-SPOILSC COMP
Prep Type: Total/NA
Prep Batch: 151100

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	ND	H	1.33	0.782		mg/Kg		59	23 - 115
Bis(2-chloroethyl)ether	ND	H	1.33	0.759		mg/Kg		57	27 - 115
2-Chlorophenol	ND	H	1.33	0.805		mg/Kg		60	16 - 115
1,3-Dichlorobenzene	ND	H	1.33	0.732		mg/Kg		55	22 - 115
1,4-Dichlorobenzene	ND	H	1.33	0.795		mg/Kg		58	21 - 115
Benzyl alcohol	ND	H	1.33	0.763		mg/Kg		57	28 - 115
1,2-Dichlorobenzene	ND	H	1.33	0.771		mg/Kg		58	25 - 115
2-Methylphenol	ND	H	1.33	0.807		mg/Kg		61	32 - 115
Methylphenol, 3 & 4	ND	H	1.33	0.803		mg/Kg		60	28 - 115
N-Nitrosodi-n-propylamine	ND	H	1.33	0.766		mg/Kg		58	27 - 115
Hexachloroethane	ND	H	1.33	0.737		mg/Kg		55	19 - 115
Nitrobenzene	ND	H	1.33	0.791		mg/Kg		59	30 - 115
Isophorone	ND	H	1.33	0.774		mg/Kg		58	36 - 115
2-Nitrophenol	ND	H	1.33	0.815		mg/Kg		61	11 - 116
2,4-Dimethylphenol	ND	H	1.33	0.731		mg/Kg		55	36 - 115
Bis(2-chloroethoxy)methane	ND	H	1.33	0.789		mg/Kg		59	28 - 115
2,4-Dichlorophenol	ND	H	1.33	0.843		mg/Kg		63	17 - 115
1,2,4-Trichlorobenzene	ND	H	1.33	0.801		mg/Kg		60	29 - 115
Naphthalene	ND	H	1.33	0.879		mg/Kg		66	22 - 115
4-Chloroaniline	ND	H	1.33	0.631		mg/Kg		47	7 - 115
Hexachlorobutadiene	ND	H	1.33	0.848		mg/Kg		64	26 - 115
4-Chloro-3-methylphenol	ND	H	1.33	0.886		mg/Kg		67	42 - 115
2-Methylnaphthalene	ND	H	1.33	0.850		mg/Kg		64	28 - 115
Hexachlorocyclopentadiene	ND	H	1.33	0.392		mg/Kg		29	15 - 115
2,4,6-Trichlorophenol	ND	H	1.33	0.863		mg/Kg		65	25 - 115
2,4,5-Trichlorophenol	ND	H	1.33	0.924		mg/Kg		69	38 - 115
2-Chloronaphthalene	ND	H	1.33	0.854		mg/Kg		64	38 - 115
2-Nitroaniline	ND	H	1.33	0.905		mg/Kg		68	43 - 115
Dimethyl phthalate	ND	H	1.33	0.909		mg/Kg		68	55 - 116
Acenaphthylene	ND	H	1.33	0.814		mg/Kg		61	49 - 120
3-Nitroaniline	ND	H	1.33	0.808		mg/Kg		61	39 - 115
Acenaphthene	ND	H	1.33	0.914		mg/Kg		68	42 - 115
2,4-Dinitrophenol	ND	H	2.66	2.00		mg/Kg		75	13 - 122
4-Nitrophenol	ND	H	2.66	2.19		mg/Kg		82	25 - 147
Dibenzofuran	ND	H	1.33	0.896		mg/Kg		67	43 - 115
2,4-Dinitrotoluene	ND	H	1.33	0.975		mg/Kg		73	47 - 115
2,6-Dinitrotoluene	ND	H	1.33	0.916		mg/Kg		69	55 - 115
Diethyl phthalate	ND	H	1.33	0.926		mg/Kg		70	48 - 115
4-Chlorophenyl phenyl ether	ND	H	1.33	0.987		mg/Kg		74	44 - 115
Fluorene	ND	H	1.33	0.955		mg/Kg		72	41 - 115
4-Nitroaniline	ND	H	1.33	0.989		mg/Kg		74	47 - 120
2-Methyl-4,6-dinitrophenol	ND	H	2.66	2.11		mg/Kg		74	19 - 132
N-Nitrosodiphenylamine	ND	H	1.33	1.06		mg/Kg		80	43 - 115
4-Bromophenyl phenyl ether	ND	H	1.33	1.02		mg/Kg		77	45 - 115
Hexachlorobenzene	ND	H	1.33	0.986		mg/Kg		74	48 - 115
Pentachlorophenol	ND	H	2.66	1.87		mg/Kg		70	7 - 132
Phenanthrene	ND	H	1.33	1.06		mg/Kg		76	38 - 115

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: 720-54027-22 MS
Matrix: Solid
Analysis Batch: 151118

Client Sample ID: LF-SPOILSC COMP
Prep Type: Total/NA
Prep Batch: 151100

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	ND	H	1.33	1.02		mg/Kg		76	47 - 115
Di-n-butyl phthalate	ND	H	1.33	0.918		mg/Kg		69	46 - 115
Fluoranthene	0.10	H	1.33	1.07		mg/Kg		73	40 - 115
Pyrene	0.15	H	1.33	1.41		mg/Kg		95	35 - 115
Butyl benzyl phthalate	ND	H	1.33	1.05		mg/Kg		79	40 - 115
3,3'-Dichlorobenzidine	ND	H	1.33	0.618		mg/Kg		46	17 - 115
Benzo[a]anthracene	ND	H	1.33	1.21		mg/Kg		84	42 - 115
Bis(2-ethylhexyl) phthalate	ND	H	1.33	1.23		mg/Kg		91	42 - 115
Chrysene	0.098	H	1.33	1.30		mg/Kg		90	37 - 115
Di-n-octyl phthalate	ND	H	1.33	1.02		mg/Kg		77	46 - 115
Benzo[b]fluoranthene	ND	H	1.33	1.17		mg/Kg		83	43 - 115
Benzo[a]pyrene	0.072	H	1.33	1.17		mg/Kg		82	48 - 115
Benzo[k]fluoranthene	ND	H	1.33	1.17		mg/Kg		84	39 - 115
Indeno[1,2,3-cd]pyrene	ND	H	1.33	1.02		mg/Kg		74	50 - 115
Benzo[g,h,i]perylene	ND	H	1.33	1.02		mg/Kg		74	43 - 115
Benzoic acid	ND	H	1.33	0.836		mg/Kg		63	0 - 115
Azobenzene	ND	H	1.33	0.908		mg/Kg		68	48 - 115
Dibenz(a,h)anthracene	ND	H	1.33	1.02		mg/Kg		75	49 - 115

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5	*58*		*21 - 98*
2-Fluorobiphenyl	*63*		*30 - 112*
Terphenyl-d14	*77*		*32 - 117*
2-Fluorophenol	*50*		*28 - 98*
Phenol-d5	*59*		*23 - 101*
2,4,6-Tribromophenol	*71*		*37 - 114*

Lab Sample ID: 720-54027-22 MSD
Matrix: Solid
Analysis Batch: 151118

Client Sample ID: LF-SPOILSC COMP
Prep Type: Total/NA
Prep Batch: 151100

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	ND	H	1.33	0.754		mg/Kg		57	23 - 115	4	35
Bis(2-chloroethyl)ether	ND	H	1.33	0.686		mg/Kg		51	27 - 115	10	35
2-Chlorophenol	ND	H	1.33	0.766		mg/Kg		57	16 - 115	5	35
1,3-Dichlorobenzene	ND	H	1.33	0.698		mg/Kg		52	22 - 115	5	35
1,4-Dichlorobenzene	ND	H	1.33	0.757		mg/Kg		55	21 - 115	5	35
Benzyl alcohol	ND	H	1.33	0.752		mg/Kg		56	28 - 115	1	35
1,2-Dichlorobenzene	ND	H	1.33	0.740		mg/Kg		56	25 - 115	4	35
2-Methylphenol	ND	H	1.33	0.775		mg/Kg		58	32 - 115	4	35
Methylphenol, 3 & 4	ND	H	1.33	0.779		mg/Kg		58	28 - 115	3	35
N-Nitrosodi-n-propylamine	ND	H	1.33	0.758		mg/Kg		57	27 - 115	1	35
Hexachloroethane	ND	H	1.33	0.709		mg/Kg		53	19 - 115	4	35
Nitrobenzene	ND	H	1.33	0.759		mg/Kg		57	30 - 115	4	35
Isophorone	ND	H	1.33	0.732		mg/Kg		55	36 - 115	6	35
2-Nitrophenol	ND	H	1.33	0.803		mg/Kg		60	11 - 116	1	35
2,4-Dimethylphenol	ND	H	1.33	0.638		mg/Kg		48	36 - 115	14	35

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: 720-54027-22 MSD
Matrix: Solid
Analysis Batch: 151118

Client Sample ID: LF-SPOILSC COMP
Prep Type: Total/NA
Prep Batch: 151100

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane	ND	H	1.33	0.749		mg/Kg		56	28 - 115	5	35
2,4-Dichlorophenol	ND	H	1.33	0.811		mg/Kg		61	17 - 115	4	35
1,2,4-Trichlorobenzene	ND	H	1.33	0.756		mg/Kg		57	29 - 115	6	35
Naphthalene	ND	H	1.33	0.826		mg/Kg		62	22 - 115	6	35
4-Chloroaniline	ND	H	1.33	0.642		mg/Kg		48	7 - 115	2	35
Hexachlorobutadiene	ND	H	1.33	0.803		mg/Kg		60	26 - 115	5	35
4-Chloro-3-methylphenol	ND	H	1.33	0.871		mg/Kg		65	42 - 115	2	35
2-Methylnaphthalene	ND	H	1.33	0.817		mg/Kg		61	28 - 115	4	35
Hexachlorocyclopentadiene	ND	H	1.33	0.340		mg/Kg		25	15 - 115	14	35
2,4,6-Trichlorophenol	ND	H	1.33	0.848		mg/Kg		64	25 - 115	2	35
2,4,5-Trichlorophenol	ND	H	1.33	0.920		mg/Kg		69	38 - 115	0	35
2-Chloronaphthalene	ND	H	1.33	0.839		mg/Kg		63	38 - 115	2	35
2-Nitroaniline	ND	H	1.33	0.903		mg/Kg		68	43 - 115	0	35
Dimethyl phthalate	ND	H	1.33	0.916		mg/Kg		69	55 - 116	1	35
Acenaphthylene	ND	H	1.33	0.779		mg/Kg		58	49 - 120	4	35
3-Nitroaniline	ND	H	1.33	0.806		mg/Kg		60	39 - 115	0	35
Acenaphthene	ND	H	1.33	0.890		mg/Kg		66	42 - 115	3	35
2,4-Dinitrophenol	ND	H	2.67	1.82		mg/Kg		68	13 - 122	9	35
4-Nitrophenol	ND	H	2.67	2.16		mg/Kg		81	25 - 147	1	35
Dibenzofuran	ND	H	1.33	0.906		mg/Kg		68	43 - 115	1	35
2,4-Dinitrotoluene	ND	H	1.33	0.953		mg/Kg		71	47 - 115	2	35
2,6-Dinitrotoluene	ND	H	1.33	0.902		mg/Kg		68	55 - 115	1	35
Diethyl phthalate	ND	H	1.33	0.932		mg/Kg		70	48 - 115	1	35
4-Chlorophenyl phenyl ether	ND	H	1.33	0.946		mg/Kg		71	44 - 115	4	35
Fluorene	ND	H	1.33	0.928		mg/Kg		70	41 - 115	3	35
4-Nitroaniline	ND	H	1.33	0.994		mg/Kg		75	47 - 120	1	35
2-Methyl-4,6-dinitrophenol	ND	H	2.67	2.04		mg/Kg		72	19 - 132	3	35
N-Nitrosodiphenylamine	ND	H	1.33	1.06		mg/Kg		79	43 - 115	1	35
4-Bromophenyl phenyl ether	ND	H	1.33	0.978		mg/Kg		73	45 - 115	4	35
Hexachlorobenzene	ND	H	1.33	0.983		mg/Kg		74	48 - 115	0	35
Pentachlorophenol	ND	H	2.67	1.85		mg/Kg		70	7 - 132	1	35
Phenanthrene	ND	H	1.33	1.03		mg/Kg		74	38 - 115	3	35
Anthracene	ND	H	1.33	1.01		mg/Kg		74	47 - 115	2	35
Di-n-butyl phthalate	ND	H	1.33	0.894		mg/Kg		67	46 - 115	3	35
Fluoranthene	0.10	H	1.33	0.862		mg/Kg		57	40 - 115	22	35
Pyrene	0.15	H	1.33	1.15		mg/Kg		74	35 - 115	21	35
Butyl benzyl phthalate	ND	H	1.33	1.06		mg/Kg		80	40 - 115	1	35
3,3'-Dichlorobenzidine	ND	H	1.33	0.576		mg/Kg		43	17 - 115	7	35
Benzo[a]anthracene	ND	H	1.33	1.03		mg/Kg		71	42 - 115	16	35
Bis(2-ethylhexyl) phthalate	ND	H	1.33	1.23		mg/Kg		90	42 - 115	1	35
Chrysene	0.098	H	1.33	1.11		mg/Kg		76	37 - 115	16	35
Di-n-octyl phthalate	ND	H	1.33	1.03		mg/Kg		78	46 - 115	1	35
Benzo[b]fluoranthene	ND	H	1.33	0.987		mg/Kg		70	43 - 115	17	35
Benzo[a]pyrene	0.072	H	1.33	1.01		mg/Kg		70	48 - 115	14	35
Benzo[k]fluoranthene	ND	H	1.33	1.07		mg/Kg		76	39 - 115	9	35
Indeno[1,2,3-cd]pyrene	ND	H	1.33	0.967		mg/Kg		70	50 - 115	6	35
Benzo[g,h,i]perylene	ND	H	1.33	0.952		mg/Kg		69	43 - 115	7	35

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: 720-54027-22 MSD
Matrix: Solid
Analysis Batch: 151118

Client Sample ID: LF-SPOILSC COMP
Prep Type: Total/NA
Prep Batch: 151100

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzoic acid	ND	H	1.33	0.825		mg/Kg		62	0 - 115	1	35
Azobenzene	ND	H	1.33	0.894		mg/Kg		67	48 - 115	2	35
Dibenz(a,h)anthracene	ND	H	1.33	0.998		mg/Kg		74	49 - 115	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5	*56*		*21 - 98*
2-Fluorobiphenyl	*61*		*30 - 112*
Terphenyl-d14	*79*		*32 - 117*
2-Fluorophenol	*48*		*28 - 98*
Phenol-d5	*56*		*23 - 101*
2,4,6-Tribromophenol	*71*		*37 - 114*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-151097/1-A
Matrix: Solid
Analysis Batch: 151132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 151097

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
Dieldrin	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
Endrin aldehyde	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
Endrin	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
Endrin ketone	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
Heptachlor	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
Heptachlor epoxide	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
4,4'-DDT	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
4,4'-DDE	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
4,4'-DDD	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
Endosulfan I	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
Endosulfan II	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
alpha-BHC	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
beta-BHC	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
delta-BHC	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
Endosulfan sulfate	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
Methoxychlor	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
Toxaphene	ND		40		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
Chlordane (technical)	ND		40		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
alpha-Chlordane	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1
gamma-Chlordane	ND		2.0		ug/Kg		01/03/14 09:54	01/03/14 23:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*110*		*57 - 122*	*01/03/14 09:54*	*01/03/14 23:29*	*1*
DCB Decachlorobiphenyl	*121*		*21 - 136*	*01/03/14 09:54*	*01/03/14 23:29*	*1*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-151097/2-A
Matrix: Solid
Analysis Batch: 151132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 151097

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aldrin			16.5	14.5		ug/Kg		87	65 - 120		
Dieldrin			16.5	14.4		ug/Kg		87	72 - 120		
Endrin aldehyde			16.5	14.6		ug/Kg		88	68 - 120		
Endrin			16.5	14.4		ug/Kg		87	68 - 120		
Endrin ketone			16.5	14.4		ug/Kg		87	67 - 120		
Heptachlor			16.5	14.0		ug/Kg		85	69 - 120		
Heptachlor epoxide			16.5	14.8		ug/Kg		89	68 - 120		
4,4'-DDT			16.5	14.3		ug/Kg		86	63 - 127		
4,4'-DDE			16.5	15.0		ug/Kg		91	70 - 120		
4,4'-DDD			16.5	14.6		ug/Kg		89	69 - 120		
Endosulfan I			16.5	14.5		ug/Kg		87	62 - 120		
Endosulfan II			16.5	14.6		ug/Kg		88	65 - 120		
alpha-BHC			16.5	14.2		ug/Kg		86	62 - 120		
beta-BHC			16.5	15.4		ug/Kg		93	74 - 124		
gamma-BHC (Lindane)			16.5	14.3		ug/Kg		87	72 - 120		
delta-BHC			16.5	14.3		ug/Kg		87	64 - 120		
Endosulfan sulfate			16.5	14.7		ug/Kg		89	67 - 120		
Methoxychlor			16.5	15.1		ug/Kg		92	71 - 132		
alpha-Chlordane			16.5	14.6		ug/Kg		88	70 - 120		
gamma-Chlordane			16.5	14.7		ug/Kg		89	68 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*91*		*57 - 122*
DCB Decachlorobiphenyl	*102*		*21 - 136*

Lab Sample ID: LCSD 720-151097/3-A
Matrix: Solid
Analysis Batch: 151132

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 151097

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin			16.5	16.2		ug/Kg		98	65 - 120	11	20
Dieldrin			16.5	16.7		ug/Kg		102	72 - 120	15	20
Endrin aldehyde			16.5	17.1		ug/Kg		104	68 - 120	16	20
Endrin			16.5	16.9		ug/Kg		102	68 - 120	16	20
Endrin ketone			16.5	16.8		ug/Kg		102	67 - 120	15	20
Heptachlor			16.5	15.7		ug/Kg		95	69 - 120	11	20
Heptachlor epoxide			16.5	16.9		ug/Kg		102	68 - 120	13	20
4,4'-DDT			16.5	16.8		ug/Kg		102	63 - 127	16	20
4,4'-DDE			16.5	17.7		ug/Kg		107	70 - 120	16	20
4,4'-DDD			16.5	17.1		ug/Kg		104	69 - 120	15	20
Endosulfan I			16.5	16.8		ug/Kg		102	62 - 120	15	20
Endosulfan II			16.5	17.1		ug/Kg		104	65 - 120	16	35
alpha-BHC			16.5	15.9		ug/Kg		96	62 - 120	11	20
beta-BHC			16.5	17.2		ug/Kg		104	74 - 124	11	20
gamma-BHC (Lindane)			16.5	16.1		ug/Kg		98	72 - 120	12	20
delta-BHC			16.5	16.4		ug/Kg		100	64 - 120	14	20
Endosulfan sulfate			16.5	17.2		ug/Kg		104	67 - 120	15	20
Methoxychlor			16.5	17.8		ug/Kg		108	71 - 132	16	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 720-151097/3-A
Matrix: Solid
Analysis Batch: 151132

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 151097

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-Chlordane			16.5	16.7		ug/Kg		101	70 - 120	13	20
gamma-Chlordane			16.5	16.9		ug/Kg		103	68 - 120	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*99*		*57 - 122*
DCB Decachlorobiphenyl	*111*		*21 - 136*

Lab Sample ID: 720-54027-12 MS
Matrix: Solid
Analysis Batch: 151132

Client Sample ID: LF-SPOILSA COMP
Prep Type: Total/NA
Prep Batch: 151097

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND	H	16.6	16.0		ug/Kg		97	53 - 120
Dieldrin	ND	H	16.6	15.9		ug/Kg		96	46 - 130
Endrin aldehyde	ND	H	16.6	16.3		ug/Kg		98	40 - 120
Endrin	ND	H	16.6	15.8		ug/Kg		95	32 - 143
Endrin ketone	ND	H	16.6	15.7		ug/Kg		95	40 - 120
Heptachlor	ND	H	16.6	15.1		ug/Kg		91	52 - 120
Heptachlor epoxide	ND	H	16.6	17.0		ug/Kg		103	40 - 120
4,4'-DDT	ND	H	16.6	16.0		ug/Kg		97	17 - 144
4,4'-DDE	ND	H	16.6	16.6		ug/Kg		100	40 - 120
4,4'-DDD	ND	H	16.6	16.7		ug/Kg		101	40 - 120
Endosulfan I	ND	H	16.6	17.1		ug/Kg		103	40 - 120
Endosulfan II	ND	H	16.6	16.1		ug/Kg		97	40 - 120
alpha-BHC	ND	H	16.6	15.7		ug/Kg		94	40 - 120
beta-BHC	ND	H	16.6	17.1		ug/Kg		103	40 - 120
gamma-BHC (Lindane)	ND	H	16.6	15.7		ug/Kg		95	58 - 120
delta-BHC	ND	H	16.6	16.7		ug/Kg		101	40 - 120
Endosulfan sulfate	ND	H	16.6	16.0		ug/Kg		97	40 - 120
Methoxychlor	ND	H	16.6	16.8		ug/Kg		101	40 - 120
alpha-Chlordane	ND	H	16.6	16.8		ug/Kg		101	40 - 120
gamma-Chlordane	ND	H	16.6	16.7		ug/Kg		101	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*95*		*57 - 122*
DCB Decachlorobiphenyl	*101*		*21 - 136*

Lab Sample ID: 720-54027-12 MSD
Matrix: Solid
Analysis Batch: 151132

Client Sample ID: LF-SPOILSA COMP
Prep Type: Total/NA
Prep Batch: 151097

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND	H	16.3	17.0		ug/Kg		104	53 - 120	6	20
Dieldrin	ND	H	16.3	16.3		ug/Kg		100	46 - 130	3	20
Endrin aldehyde	ND	H	16.3	14.6		ug/Kg		90	40 - 120	10	20
Endrin	ND	H	16.3	16.8		ug/Kg		103	32 - 143	6	20
Endrin ketone	ND	H	16.3	16.5		ug/Kg		101	40 - 120	5	20
Heptachlor	ND	H	16.3	15.9		ug/Kg		98	52 - 120	5	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-54027-12 MSD
Matrix: Solid
Analysis Batch: 151132

Client Sample ID: LF-SPOILSA COMP
Prep Type: Total/NA
Prep Batch: 151097

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Heptachlor epoxide	ND	H	16.3	17.2		ug/Kg		106	40 - 120	1	20
4,4'-DDT	ND	H	16.3	16.7		ug/Kg		103	17 - 144	4	20
4,4'-DDE	ND	H	16.3	17.1		ug/Kg		105	40 - 120	3	20
4,4'-DDD	ND	H	16.3	17.3		ug/Kg		106	40 - 120	2	20
Endosulfan I	ND	H	16.3	18.9		ug/Kg		116	40 - 120	8	20
Endosulfan II	ND	H	16.3	16.4		ug/Kg		100	40 - 120	2	30
alpha-BHC	ND	H	16.3	16.4		ug/Kg		101	40 - 120	5	20
beta-BHC	ND	H	16.3	18.0		ug/Kg		110	40 - 120	5	20
gamma-BHC (Lindane)	ND	H	16.3	16.4		ug/Kg		101	58 - 120	4	20
delta-BHC	ND	H	16.3	17.5		ug/Kg		107	40 - 120	5	20
Endosulfan sulfate	ND	H	16.3	16.5		ug/Kg		101	40 - 120	3	20
Methoxychlor	ND	H	16.3	17.8		ug/Kg		109	40 - 120	5	20
alpha-Chlordane	ND	H	16.3	17.4		ug/Kg		107	40 - 120	4	20
gamma-Chlordane	ND	H	16.3	17.6		ug/Kg		108	40 - 120	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*107*		*57 - 122*
DCB Decachlorobiphenyl	*108*		*21 - 136*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 720-151099/1-A
Matrix: Solid
Analysis Batch: 151107

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 151099

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		01/03/14 09:58	01/03/14 19:37	1
PCB-1221	ND		50		ug/Kg		01/03/14 09:58	01/03/14 19:37	1
PCB-1232	ND		50		ug/Kg		01/03/14 09:58	01/03/14 19:37	1
PCB-1242	ND		50		ug/Kg		01/03/14 09:58	01/03/14 19:37	1
PCB-1248	ND		50		ug/Kg		01/03/14 09:58	01/03/14 19:37	1
PCB-1254	ND		50		ug/Kg		01/03/14 09:58	01/03/14 19:37	1
PCB-1260	ND		50		ug/Kg		01/03/14 09:58	01/03/14 19:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*45 - 132*	*01/03/14 09:58*	*01/03/14 19:37*	*1*
DCB Decachlorobiphenyl	*79*		*42 - 146*	*01/03/14 09:58*	*01/03/14 19:37*	*1*

Lab Sample ID: LCS 720-151099/2-A
Matrix: Solid
Analysis Batch: 151107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 151099

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	132	116		ug/Kg		88	72 - 127
PCB-1260	132	110		ug/Kg		84	74 - 129

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 720-151099/2-A
Matrix: Solid
Analysis Batch: 151107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 151099

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	76		45 - 132
DCB Decachlorobiphenyl	86		42 - 146

Lab Sample ID: LCSD 720-151099/3-A
Matrix: Solid
Analysis Batch: 151107

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 151099

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			132	109		ug/Kg		83	72 - 127	6	20
PCB-1260			132	110		ug/Kg		83	74 - 129	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	68		45 - 132
DCB Decachlorobiphenyl	84		42 - 146

Lab Sample ID: 720-54027-17 MS
Matrix: Solid
Analysis Batch: 151107

Client Sample ID: LF-SPOILSB COMP
Prep Type: Total/NA
Prep Batch: 151099

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND	H	130	137		ug/Kg		106	69 - 120
PCB-1260	ND	H	130	107		ug/Kg		82	73 - 114

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	73		45 - 132
DCB Decachlorobiphenyl	82		42 - 146

Lab Sample ID: 720-54027-17 MSD
Matrix: Solid
Analysis Batch: 151107

Client Sample ID: LF-SPOILSB COMP
Prep Type: Total/NA
Prep Batch: 151099

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND	H	133	113		ug/Kg		85	69 - 120	20	20
PCB-1260	ND	H	133	104		ug/Kg		79	73 - 114	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	67		45 - 132
DCB Decachlorobiphenyl	78		42 - 146

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-151163/1-A
Matrix: Solid
Analysis Batch: 151192

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 151163

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.010		mg/L		01/06/14 10:24	01/06/14 14:58	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-151163/2-A
Matrix: Solid
Analysis Batch: 151192

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 151163

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium			1.00	0.942		mg/L		94	80 - 120		

Lab Sample ID: LCSD 720-151163/3-A
Matrix: Solid
Analysis Batch: 151192

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 151163

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium			1.00	0.984		mg/L		98	80 - 120	4	20

Lab Sample ID: LB4 720-151056/1-B
Matrix: Solid
Analysis Batch: 151192

Client Sample ID: Method Blank
Prep Type: STLC Citrate
Prep Batch: 151163

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10		mg/L		01/06/14 10:24	01/06/14 15:11	1

GC/MS Semi VOA

Prep Batch: 151100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-12	LF-SPOILSA COMP	Total/NA	Solid	3546	
720-54027-17	LF-SPOILSB COMP	Total/NA	Solid	3546	
720-54027-22	LF-SPOILSC COMP	Total/NA	Solid	3546	
720-54027-22 MS	LF-SPOILSC COMP	Total/NA	Solid	3546	
720-54027-22 MSD	LF-SPOILSC COMP	Total/NA	Solid	3546	
LCS 720-151100/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-151100/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-151100/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 151118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-12	LF-SPOILSA COMP	Total/NA	Solid	8270C	151100
720-54027-17	LF-SPOILSB COMP	Total/NA	Solid	8270C	151100
720-54027-22	LF-SPOILSC COMP	Total/NA	Solid	8270C	151100
720-54027-22 MS	LF-SPOILSC COMP	Total/NA	Solid	8270C	151100
720-54027-22 MSD	LF-SPOILSC COMP	Total/NA	Solid	8270C	151100
LCS 720-151100/2-A	Lab Control Sample	Total/NA	Solid	8270C	151100
LCSD 720-151100/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C	151100
MB 720-151100/1-A	Method Blank	Total/NA	Solid	8270C	151100

GC Semi VOA

Analysis Batch: 151092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-12	LF-SPOILSA COMP	Total/NA	Solid	8082	151099
720-54027-22	LF-SPOILSC COMP	Total/NA	Solid	8082	151099

Prep Batch: 151097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-12	LF-SPOILSA COMP	Total/NA	Solid	3546	
720-54027-12 MS	LF-SPOILSA COMP	Total/NA	Solid	3546	
720-54027-12 MSD	LF-SPOILSA COMP	Total/NA	Solid	3546	
720-54027-17	LF-SPOILSB COMP	Total/NA	Solid	3546	
720-54027-22	LF-SPOILSC COMP	Total/NA	Solid	3546	
LCS 720-151097/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-151097/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-151097/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 151099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-12	LF-SPOILSA COMP	Total/NA	Solid	3546	
720-54027-17	LF-SPOILSB COMP	Total/NA	Solid	3546	
720-54027-17 MS	LF-SPOILSB COMP	Total/NA	Solid	3546	
720-54027-17 MSD	LF-SPOILSB COMP	Total/NA	Solid	3546	
720-54027-22	LF-SPOILSC COMP	Total/NA	Solid	3546	
LCS 720-151099/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-151099/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-151099/1-A	Method Blank	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Analysis Batch: 151107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-17	LF-SPOILSB COMP	Total/NA	Solid	8082	151099
720-54027-17 MS	LF-SPOILSB COMP	Total/NA	Solid	8082	151099
720-54027-17 MSD	LF-SPOILSB COMP	Total/NA	Solid	8082	151099
LCS 720-151099/2-A	Lab Control Sample	Total/NA	Solid	8082	151099
LCSD 720-151099/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	151099
MB 720-151099/1-A	Method Blank	Total/NA	Solid	8082	151099

Analysis Batch: 151132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-12	LF-SPOILSA COMP	Total/NA	Solid	8081A	151097
720-54027-12 MS	LF-SPOILSA COMP	Total/NA	Solid	8081A	151097
720-54027-12 MSD	LF-SPOILSA COMP	Total/NA	Solid	8081A	151097
720-54027-17	LF-SPOILSB COMP	Total/NA	Solid	8081A	151097
720-54027-22	LF-SPOILSC COMP	Total/NA	Solid	8081A	151097
LCS 720-151097/2-A	Lab Control Sample	Total/NA	Solid	8081A	151097
LCSD 720-151097/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	151097
MB 720-151097/1-A	Method Blank	Total/NA	Solid	8081A	151097

Metals

Leach Batch: 151056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-12	LF-SPOILSA COMP	STLC Citrate	Solid	CA WET Citrate	
720-54027-17	LF-SPOILSB COMP	STLC Citrate	Solid	CA WET Citrate	
720-54027-22	LF-SPOILSC COMP	STLC Citrate	Solid	CA WET Citrate	
720-54027-27	SL-SPOILS COMP	STLC Citrate	Solid	CA WET Citrate	
LB4 720-151056/1-B	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 151163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-12	LF-SPOILSA COMP	STLC Citrate	Solid	3005A	151056
720-54027-17	LF-SPOILSB COMP	STLC Citrate	Solid	3005A	151056
720-54027-22	LF-SPOILSC COMP	STLC Citrate	Solid	3005A	151056
720-54027-27	SL-SPOILS COMP	STLC Citrate	Solid	3005A	151056
LB4 720-151056/1-B	Method Blank	STLC Citrate	Solid	3005A	151056
LCS 720-151163/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-151163/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-151163/1-A	Method Blank	Total Recoverable	Solid	3005A	

Analysis Batch: 151192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54027-12	LF-SPOILSA COMP	STLC Citrate	Solid	6010B	151163
720-54027-17	LF-SPOILSB COMP	STLC Citrate	Solid	6010B	151163
720-54027-22	LF-SPOILSC COMP	STLC Citrate	Solid	6010B	151163
720-54027-27	SL-SPOILS COMP	STLC Citrate	Solid	6010B	151163
LB4 720-151056/1-B	Method Blank	STLC Citrate	Solid	6010B	151163
LCS 720-151163/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	151163
LCSD 720-151163/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	151163
MB 720-151163/1-A	Method Blank	Total Recoverable	Solid	6010B	151163

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-2

Client Sample ID: LF-SPOILSA COMP

Lab Sample ID: 720-54027-12

Date Collected: 11/25/13 11:50

Matrix: Solid

Date Received: 11/25/13 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			151100	01/03/14 10:02	NDU	TAL PLS
Total/NA	Analysis	8270C		1	151118	01/03/14 16:39	MQL	TAL PLS
Total/NA	Prep	3546			151099	01/03/14 09:58	MRP	TAL PLS
Total/NA	Analysis	8082		1	151092	01/03/14 20:27	JZT	TAL PLS
Total/NA	Prep	3546			151097	01/03/14 09:54	MRP	TAL PLS
Total/NA	Analysis	8081A		1	151132	01/04/14 00:53	JZT	TAL PLS
STLC Citrate	Leach	CA WET Citrate			151056	01/04/14 09:16	ECT	TAL PLS
STLC Citrate	Prep	3005A			151163	01/06/14 10:24	JCR	TAL PLS
STLC Citrate	Analysis	6010B		1	151192	01/06/14 15:39	EFH	TAL PLS

Client Sample ID: LF-SPOILSB COMP

Lab Sample ID: 720-54027-17

Date Collected: 11/25/13 11:55

Matrix: Solid

Date Received: 11/25/13 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			151100	01/03/14 10:02	NDU	TAL PLS
Total/NA	Analysis	8270C		1	151118	01/03/14 17:04	MQL	TAL PLS
Total/NA	Prep	3546			151099	01/03/14 09:58	MRP	TAL PLS
Total/NA	Analysis	8082		1	151107	01/03/14 20:27	JZT	TAL PLS
Total/NA	Prep	3546			151097	01/03/14 09:54	MRP	TAL PLS
Total/NA	Analysis	8081A		1	151132	01/04/14 01:10	JZT	TAL PLS
STLC Citrate	Leach	CA WET Citrate			151056	01/04/14 09:16	ECT	TAL PLS
STLC Citrate	Prep	3005A			151163	01/06/14 10:24	JCR	TAL PLS
STLC Citrate	Analysis	6010B		1	151192	01/06/14 15:53	EFH	TAL PLS

Client Sample ID: LF-SPOILSC COMP

Lab Sample ID: 720-54027-22

Date Collected: 11/25/13 12:00

Matrix: Solid

Date Received: 11/25/13 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			151100	01/03/14 10:02	NDU	TAL PLS
Total/NA	Analysis	8270C		1	151118	01/03/14 16:16	MQL	TAL PLS
Total/NA	Prep	3546			151099	01/03/14 09:58	MRP	TAL PLS
Total/NA	Analysis	8082		1	151092	01/03/14 20:44	JZT	TAL PLS
Total/NA	Prep	3546			151097	01/03/14 09:54	MRP	TAL PLS
Total/NA	Analysis	8081A		1	151132	01/04/14 01:27	JZT	TAL PLS
STLC Citrate	Leach	CA WET Citrate			151056	01/04/14 09:16	ECT	TAL PLS
STLC Citrate	Prep	3005A			151163	01/06/14 10:24	JCR	TAL PLS
STLC Citrate	Analysis	6010B		1	151192	01/06/14 15:58	EFH	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-2

Client Sample ID: SL-SPOILS COMP
Date Collected: 11/25/13 12:10
Date Received: 11/25/13 15:25

Lab Sample ID: 720-54027-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			151056	01/04/14 09:16	ECT	TAL PLS
STLC Citrate	Prep	3005A			151163	01/06/14 10:24	JCR	TAL PLS
STLC Citrate	Analysis	6010B		1	151192	01/06/14 16:03	EFH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-2

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-2

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54027-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-54027-12	LF-SPOILSA COMP	Solid	11/25/13 11:50	11/25/13 15:25
720-54027-17	LF-SPOILSB COMP	Solid	11/25/13 11:55	11/25/13 15:25
720-54027-22	LF-SPOILSC COMP	Solid	11/25/13 12:00	11/25/13 15:25
720-54027-27	SL-SPOILS COMP	Solid	11/25/13 12:10	11/25/13 15:25

720-54027-2

Sharma, Dimple

From: Tilotta, Vincent [VTilotta@haleyaldrich.com]
Sent: *Tuesday, December 31, 2013 11:39 AM*
To: Sharma, Dimple
Cc: Schwartz, James; Green, James; Sebik, Joanna
Subject: RE: Extra analysis

Good morning Dimple,

Would you please arrange for a W.E.T. STLC chromium analysis for the following sample? A standard five day turnaround is fine.

Sample ID	Sample ID number	Notes
FHARF-9-Spoils-Composite	720-54487-5	W.E.T. STLC for Cr

If possible, could you include the results of this analysis in the same report as the analyses listed in the email below?

Thank you,
Vince

720-54027 Chain of Custody

From: Tilotta, Vincent
Sent: Tuesday, December 24, 2013 9:55 AM
To: Sharma, Dimple <dimple.sharma@testamericainc.com> (dimple.sharma@testamericainc.com)
Cc: Schwartz, James; Green, James; Sebik, Joanna
Subject: Extra analysis

Good morning Dimple,

I would like to formally request some extra testing be done on some samples collected in the last month.

Sample ID	Sample ID number	Notes
SL-SPOILS COMP	720-54027-27	W.E.T. STLC for Cr
3-TR/EX-SPOILS	720-54016-45	W.E.T. STLC for Cr
3-EX2-SPOILS-B	720-54016-10	W.E.T. STLC for Cr
3-EX2-SPOILS-C	720-54016-15	W.E.T. STLC for Cr
3-TR2-SPOILS-B	720-54016-25	W.E.T. STLC for Cr
FHARF-7/8-SPOILS-A	720-54017-10	W.E.T. STLC for Cr
FHARF-7/8-SPOILS-B	720-54017-15	W.E.T. STLC for Cr
LF-SPOILSC COMP	720-54027-22	W.E.T. STLC for Cr, BTEX (8260B), SVOC (8270C), Pesticides (8081A), I
LF-SPOILSA COMP	720-54027-12	W.E.T. STLC for Cr, BTEX (8260B), SVOC (8270C), Pesticides (8081A), I
LF-SPOILSB COMP	720-54027-17	W.E.T. STLC for Cr, BTEX (8260B), SVOC (8270C), Pesticides (8081A), I
3-TPT-SPOILS	720-54016-40	BTEX (8260B), SVOC (8270C), Pesticides (8081A), PCBs (8082), Pheno

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-54027-2

Login Number: 54027

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



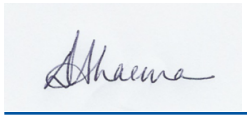
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-54068-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz



Authorized for release by:
12/4/2013 4:28:52 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-54068-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-54068-1

Comments
No additional comments.

Receipt
The samples were received on 11/26/2013 5:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: TS1-S4 (1.5) (720-54068-4), TS3-S3 (1.5) (720-54068-10).

Method 8015B: Capric acid Surrogate recovery for the following sample was outside control limits: TS1-S2 (1.5) (720-54068-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: TS1-S1 (1.5) — Lab Sample ID: 720-54068-1

No Detections.

Client Sample ID: TS1-S2 (1.5) — Lab Sample ID: 720-54068-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	170		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	280		150		mg/Kg	3		8015B	Silica Gel Cleanup

Client Sample ID: TS1-S3 (1.5) — Lab Sample ID: 720-54068-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	29		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	120		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS1-S4 (1.5) — Lab Sample ID: 720-54068-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	250		4.9		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	770		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: TS2-S1 (1.5) — Lab Sample ID: 720-54068-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	28		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	180		150		mg/Kg	3		8015B	Silica Gel Cleanup

Client Sample ID: TS2-S2 (1.5) — Lab Sample ID: 720-54068-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	5.6		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS2-S3 (1.5) — Lab Sample ID: 720-54068-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	24		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	190		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS2-S4 (1.5) — Lab Sample ID: 720-54068-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	28		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	130		50		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: TS3-S2 (1.5) — Lab Sample ID: 720-54068-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	18		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	120		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS3-S3 (1.5) — Lab Sample ID: 720-54068-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	290		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	2100		1000		mg/Kg	20		8015B	Silica Gel Cleanup

Client Sample ID: TS3-S4 (1.5) — Lab Sample ID: 720-54068-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.8		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS4-S1 (1.5) — Lab Sample ID: 720-54068-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.4		0.98		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS4-S2 (1.5) — Lab Sample ID: 720-54068-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	77		0.98		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	190		49		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS4-S3 (1.5) — Lab Sample ID: 720-54068-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	6.5		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CS-S1 (1.5) — Lab Sample ID: 720-54068-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.6		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CS-S2 (1.5) — Lab Sample ID: 720-54068-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	9.0		0.98		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	61		49		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: CS-S3 (1.5) — Lab Sample ID: 720-54068-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.0		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CS-S4 (1.5) — Lab Sample ID: 720-54068-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	19		0.98		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	74		49		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CS-S5 (1.5) — Lab Sample ID: 720-54068-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	22		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	96		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CS-S6 (1.5) — Lab Sample ID: 720-54068-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.0		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CS-S7 (1.5) — Lab Sample ID: 720-54068-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	21		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	63		50		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: TS1-S1 (1.5)
Date Collected: 11/26/13 11:15
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		11/27/13 08:29	11/27/13 23:03	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/27/13 08:29	11/27/13 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.008*		*0 - 1*	*11/27/13 08:29*	*11/27/13 23:03*	*1*
p-Terphenyl	*102*		*38 - 148*	*11/27/13 08:29*	*11/27/13 23:03*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: TS1-S2 (1.5)
Date Collected: 11/26/13 11:19
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	170		3.0		mg/Kg		11/27/13 08:29	11/29/13 18:10	3
Motor Oil Range Organics [C24-C36]	280		150		mg/Kg		11/27/13 08:29	11/29/13 18:10	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*2*	*X*	*0 - 1*	*11/27/13 08:29*	*11/29/13 18:10*	*3*
p-Terphenyl	*99*		*38 - 148*	*11/27/13 08:29*	*11/29/13 18:10*	*3*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: TS1-S3 (1.5)
Date Collected: 11/26/13 11:22
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	29		1.0		mg/Kg		11/27/13 08:29	11/29/13 15:44	1
Motor Oil Range Organics [C24-C36]	120		50		mg/Kg		11/27/13 08:29	11/29/13 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.1*		*0 - 1*	*11/27/13 08:29*	*11/29/13 15:44*	*1*
p-Terphenyl	*85*		*38 - 148*	*11/27/13 08:29*	*11/29/13 15:44*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: TS1-S4 (1.5)
Date Collected: 11/26/13 11:25
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	250		4.9		mg/Kg		11/27/13 08:29	11/29/13 18:35	5
Motor Oil Range Organics [C24-C36]	770		250		mg/Kg		11/27/13 08:29	11/29/13 18:35	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*11/27/13 08:29*	*11/29/13 18:35*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*11/27/13 08:29*	*11/29/13 18:35*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: TS2-S1 (1.5)
Date Collected: 11/26/13 11:40
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	28		3.0		mg/Kg		11/27/13 08:29	12/02/13 10:57	3
Motor Oil Range Organics [C24-C36]	180		150		mg/Kg		11/27/13 08:29	12/02/13 10:57	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.07*		*0 - 1*	*11/27/13 08:29*	*12/02/13 10:57*	*3*
p-Terphenyl	*79*		*38 - 148*	*11/27/13 08:29*	*12/02/13 10:57*	*3*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: TS2-S2 (1.5)
Date Collected: 11/26/13 11:42
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-6
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.6**		0.99		mg/Kg		11/27/13 08:29	11/29/13 14:07	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		11/27/13 08:29	11/29/13 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.0003*		*0 - 1*	*11/27/13 08:29*	*11/29/13 14:07*	*1*
p-Terphenyl	*108*		*38 - 148*	*11/27/13 08:29*	*11/29/13 14:07*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: TS2-S3 (1.5)
Date Collected: 11/26/13 11:45
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-7
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	24		0.99		mg/Kg		11/27/13 08:29	11/29/13 15:20	1
Motor Oil Range Organics [C24-C36]	190		50		mg/Kg		11/27/13 08:29	11/29/13 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 1*	*11/27/13 08:29*	*11/29/13 15:20*	*1*
p-Terphenyl	*76*		*38 - 148*	*11/27/13 08:29*	*11/29/13 15:20*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: TS2-S4 (1.5)
Date Collected: 11/26/13 11:50
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-8
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	28		0.99		mg/Kg		11/27/13 08:29	11/29/13 14:31	1
Motor Oil Range Organics [C24-C36]	130		50		mg/Kg		11/27/13 08:29	11/29/13 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*11/27/13 08:29*	*11/29/13 14:31*	*1*
p-Terphenyl	*77*		*38 - 148*	*11/27/13 08:29*	*11/29/13 14:31*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: TS3-S2 (1.5)
Date Collected: 11/26/13 12:10
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-9
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	18		0.99		mg/Kg		11/27/13 08:29	11/29/13 13:43	1
Motor Oil Range Organics [C24-C36]	120		50		mg/Kg		11/27/13 08:29	11/29/13 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 1*	*11/27/13 08:29*	*11/29/13 13:43*	*1*
p-Terphenyl	*88*		*38 - 148*	*11/27/13 08:29*	*11/29/13 13:43*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: TS3-S3 (1.5)
Date Collected: 11/26/13 12:13
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-10
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	290		20		mg/Kg		11/27/13 08:29	11/29/13 18:10	20
Motor Oil Range Organics [C24-C36]	2100		1000		mg/Kg		11/27/13 08:29	11/29/13 18:10	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*11/27/13 08:29*	*11/29/13 18:10*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*11/27/13 08:29*	*11/29/13 18:10*	*20*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: TS3-S4 (1.5)
Date Collected: 11/26/13 12:15
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-11
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.8**		0.99		mg/Kg		11/27/13 08:29	11/29/13 15:20	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/27/13 08:29	11/29/13 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.004*		*0 - 1*	*11/27/13 08:29*	*11/29/13 15:20*	*1*
p-Terphenyl	*96*		*38 - 148*	*11/27/13 08:29*	*11/29/13 15:20*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: TS4-S1 (1.5)
Date Collected: 11/26/13 12:40
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-12
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.4**		0.98		mg/Kg		12/02/13 14:44	12/03/13 16:05	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		12/02/13 14:44	12/03/13 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.09*		*0 - 1*	*12/02/13 14:44*	*12/03/13 16:05*	*1*
p-Terphenyl	*93*		*38 - 148*	*12/02/13 14:44*	*12/03/13 16:05*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: TS4-S2 (1.5)
Date Collected: 11/26/13 12:45
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-13
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	77		0.98		mg/Kg		12/02/13 14:44	12/03/13 17:04	1
Motor Oil Range Organics [C24-C36]	190		49		mg/Kg		12/02/13 14:44	12/03/13 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.3*		*0 - 1*	*12/02/13 14:44*	*12/03/13 17:04*	*1*
p-Terphenyl	*73*		*38 - 148*	*12/02/13 14:44*	*12/03/13 17:04*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: TS4-S3 (1.5)
Date Collected: 11/26/13 12:50
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-14
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**6.5**		0.99		mg/Kg		12/02/13 14:44	12/03/13 18:02	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		12/02/13 14:44	12/03/13 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.1*		*0 - 1*	*12/02/13 14:44*	*12/03/13 18:02*	*1*
p-Terphenyl	*99*		*38 - 148*	*12/02/13 14:44*	*12/03/13 18:02*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: CS-S1 (1.5)
Date Collected: 11/26/13 13:10
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-15
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.6**		0.99		mg/Kg		12/02/13 14:44	12/03/13 16:35	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		12/02/13 14:44	12/03/13 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.06*		*0 - 1*	*12/02/13 14:44*	*12/03/13 16:35*	*1*
p-Terphenyl	*88*		*38 - 148*	*12/02/13 14:44*	*12/03/13 16:35*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: CS-S2 (1.5)
Date Collected: 11/26/13 13:13
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-16
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	9.0		0.98		mg/Kg		12/02/13 14:44	12/04/13 10:12	1
Motor Oil Range Organics [C24-C36]	61		49		mg/Kg		12/02/13 14:44	12/04/13 10:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*12/02/13 14:44*	*12/04/13 10:12*	*1*
p-Terphenyl	*96*		*38 - 148*	*12/02/13 14:44*	*12/04/13 10:12*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: CS-S3 (1.5)
Date Collected: 11/26/13 13:17
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-17
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.0**		0.99		mg/Kg		12/02/13 14:44	12/03/13 17:04	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		12/02/13 14:44	12/03/13 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.07*		*0 - 1*	*12/02/13 14:44*	*12/03/13 17:04*	*1*
p-Terphenyl	*93*		*38 - 148*	*12/02/13 14:44*	*12/03/13 17:04*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: CS-S4 (1.5)
Date Collected: 11/26/13 13:20
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-18
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	19		0.98		mg/Kg		12/02/13 14:44	12/03/13 16:05	1
Motor Oil Range Organics [C24-C36]	74		49		mg/Kg		12/02/13 14:44	12/03/13 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.2*		*0 - 1*	*12/02/13 14:44*	*12/03/13 16:05*	*1*
p-Terphenyl	*73*		*38 - 148*	*12/02/13 14:44*	*12/03/13 16:05*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: CS-S5 (1.5)
Date Collected: 11/26/13 13:23
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-19
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	22		0.99		mg/Kg		12/02/13 14:44	12/03/13 16:35	1
Motor Oil Range Organics [C24-C36]	96		50		mg/Kg		12/02/13 14:44	12/03/13 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.04*		*0 - 1*	*12/02/13 14:44*	*12/03/13 16:35*	*1*
p-Terphenyl	*70*		*38 - 148*	*12/02/13 14:44*	*12/03/13 16:35*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: CS-S6 (1.5)
Date Collected: 11/26/13 13:27
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-20
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.0**		0.99		mg/Kg		12/02/13 14:44	12/03/13 17:33	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		12/02/13 14:44	12/03/13 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.2*		*0 - 1*	*12/02/13 14:44*	*12/03/13 17:33*	*1*
p-Terphenyl	*95*		*38 - 148*	*12/02/13 14:44*	*12/03/13 17:33*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: CS-S7 (1.5)
Date Collected: 11/26/13 13:30
Date Received: 11/26/13 17:10

Lab Sample ID: 720-54068-21
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	21		1.0		mg/Kg		12/02/13 14:44	12/03/13 18:02	1
Motor Oil Range Organics [C24-C36]	63		50		mg/Kg		12/02/13 14:44	12/03/13 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.09*		*0 - 1*	*12/02/13 14:44*	*12/03/13 18:02*	*1*
p-Terphenyl	*76*		*38 - 148*	*12/02/13 14:44*	*12/03/13 18:02*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-149125/1-A
Matrix: Solid
Analysis Batch: 149113

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 149125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		11/27/13 08:29	11/27/13 23:03	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		11/27/13 08:29	11/27/13 23:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 1*	*11/27/13 08:29*	*11/27/13 23:03*	*1*
p-Terphenyl	*106*		*38 - 148*	*11/27/13 08:29*	*11/27/13 23:03*	*1*

Lab Sample ID: LCS 720-149125/2-A
Matrix: Solid
Analysis Batch: 149113

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 149125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.2	69.0		mg/Kg		83	36 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*105*		*38 - 148*

Lab Sample ID: LCSD 720-149125/3-A
Matrix: Solid
Analysis Batch: 149113

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 149125

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	83.3	70.2		mg/Kg		84	36 - 112	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*107*		*38 - 148*

Lab Sample ID: 720-54068-1 MS
Matrix: Solid
Analysis Batch: 149114

Client Sample ID: TS1-S1 (1.5)
Prep Type: Silica Gel Cleanup
Prep Batch: 149125

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	ND		82.0	72.7		mg/Kg		89	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*105*		*38 - 148*

Lab Sample ID: 720-54068-1 MSD
Matrix: Solid
Analysis Batch: 149114

Client Sample ID: TS1-S1 (1.5)
Prep Type: Silica Gel Cleanup
Prep Batch: 149125

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		82.6	78.0		mg/Kg		94	50 - 150	7	30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-54068-1 MSD
Matrix: Solid
Analysis Batch: 149114

Client Sample ID: TS1-S1 (1.5)
Prep Type: Silica Gel Cleanup
Prep Batch: 149125

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*112*		*38 - 148*

Lab Sample ID: MB 720-149307/1-A
Matrix: Solid
Analysis Batch: 149351

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 149307

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		12/02/13 14:44	12/03/13 19:31	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		12/02/13 14:44	12/03/13 19:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*12/02/13 14:44*	*12/03/13 19:31*	*1*
p-Terphenyl	*93*		*38 - 148*	*12/02/13 14:44*	*12/03/13 19:31*	*1*

Lab Sample ID: LCS 720-149307/2-A
Matrix: Solid
Analysis Batch: 149351

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 149307

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.5	79.3		mg/Kg		96	36 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*114*		*38 - 148*

Lab Sample ID: LCSD 720-149307/3-A
Matrix: Solid
Analysis Batch: 149351

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 149307

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	82.6	76.3		mg/Kg		92	36 - 112	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*111*		*38 - 148*

Lab Sample ID: 720-54068-12 MS
Matrix: Solid
Analysis Batch: 149350

Client Sample ID: TS4-S1 (1.5)
Prep Type: Silica Gel Cleanup
Prep Batch: 149307

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	3.4		82.3	83.9		mg/Kg		98	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*114*		*38 - 148*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-54068-12 MSD
Matrix: Solid
Analysis Batch: 149350

Client Sample ID: TS4-S1 (1.5)
Prep Type: Silica Gel Cleanup
Prep Batch: 149307

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	3.4		82.2	88.0		mg/Kg		103	50 - 150	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*116*		*38 - 148*

GC Semi VOA

Analysis Batch: 149113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-149125/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	149125
LCSD 720-149125/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	149125
MB 720-149125/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	149125

Analysis Batch: 149114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54068-1	TS1-S1 (1.5)	Silica Gel Cleanup	Solid	8015B	149125
720-54068-1 MS	TS1-S1 (1.5)	Silica Gel Cleanup	Solid	8015B	149125
720-54068-1 MSD	TS1-S1 (1.5)	Silica Gel Cleanup	Solid	8015B	149125

Prep Batch: 149125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54068-1	TS1-S1 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-1 MS	TS1-S1 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-1 MSD	TS1-S1 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-2	TS1-S2 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-3	TS1-S3 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-4	TS1-S4 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-5	TS2-S1 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-6	TS2-S2 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-7	TS2-S3 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-8	TS2-S4 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-9	TS3-S2 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-10	TS3-S3 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-11	TS3-S4 (1.5)	Silica Gel Cleanup	Solid	3546	
LCS 720-149125/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-149125/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-149125/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 149188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54068-3	TS1-S3 (1.5)	Silica Gel Cleanup	Solid	8015B	149125
720-54068-4	TS1-S4 (1.5)	Silica Gel Cleanup	Solid	8015B	149125
720-54068-6	TS2-S2 (1.5)	Silica Gel Cleanup	Solid	8015B	149125
720-54068-7	TS2-S3 (1.5)	Silica Gel Cleanup	Solid	8015B	149125
720-54068-8	TS2-S4 (1.5)	Silica Gel Cleanup	Solid	8015B	149125
720-54068-9	TS3-S2 (1.5)	Silica Gel Cleanup	Solid	8015B	149125
720-54068-10	TS3-S3 (1.5)	Silica Gel Cleanup	Solid	8015B	149125

Analysis Batch: 149189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54068-2	TS1-S2 (1.5)	Silica Gel Cleanup	Solid	8015B	149125
720-54068-11	TS3-S4 (1.5)	Silica Gel Cleanup	Solid	8015B	149125

Analysis Batch: 149273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54068-5	TS2-S1 (1.5)	Silica Gel Cleanup	Solid	8015B	149125

Prep Batch: 149307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54068-12	TS4-S1 (1.5)	Silica Gel Cleanup	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 149307 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54068-12 MS	TS4-S1 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-12 MSD	TS4-S1 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-13	TS4-S2 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-14	TS4-S3 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-15	CS-S1 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-16	CS-S2 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-17	CS-S3 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-18	CS-S4 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-19	CS-S5 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-20	CS-S6 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54068-21	CS-S7 (1.5)	Silica Gel Cleanup	Solid	3546	
LCS 720-149307/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-149307/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-149307/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 149350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54068-12	TS4-S1 (1.5)	Silica Gel Cleanup	Solid	8015B	149307
720-54068-12 MS	TS4-S1 (1.5)	Silica Gel Cleanup	Solid	8015B	149307
720-54068-12 MSD	TS4-S1 (1.5)	Silica Gel Cleanup	Solid	8015B	149307
720-54068-14	TS4-S3 (1.5)	Silica Gel Cleanup	Solid	8015B	149307
720-54068-15	CS-S1 (1.5)	Silica Gel Cleanup	Solid	8015B	149307
720-54068-17	CS-S3 (1.5)	Silica Gel Cleanup	Solid	8015B	149307
720-54068-20	CS-S6 (1.5)	Silica Gel Cleanup	Solid	8015B	149307

Analysis Batch: 149351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54068-13	TS4-S2 (1.5)	Silica Gel Cleanup	Solid	8015B	149307
720-54068-18	CS-S4 (1.5)	Silica Gel Cleanup	Solid	8015B	149307
720-54068-19	CS-S5 (1.5)	Silica Gel Cleanup	Solid	8015B	149307
720-54068-21	CS-S7 (1.5)	Silica Gel Cleanup	Solid	8015B	149307
LCS 720-149307/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	149307
LCSD 720-149307/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	149307
MB 720-149307/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	149307

Analysis Batch: 149415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54068-16	CS-S2 (1.5)	Silica Gel Cleanup	Solid	8015B	149307

Client Sample ID: TS1-S1 (1.5)

Lab Sample ID: 720-54068-1

Date Collected: 11/26/13 11:15

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149125	11/27/13 08:29	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149114	11/27/13 23:03	JL	TAL PLS

Client Sample ID: TS1-S2 (1.5)

Lab Sample ID: 720-54068-2

Date Collected: 11/26/13 11:19

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149125	11/27/13 08:29	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	149189	11/29/13 18:10	JL	TAL PLS

Client Sample ID: TS1-S3 (1.5)

Lab Sample ID: 720-54068-3

Date Collected: 11/26/13 11:22

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149125	11/27/13 08:29	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149188	11/29/13 15:44	JL	TAL PLS

Client Sample ID: TS1-S4 (1.5)

Lab Sample ID: 720-54068-4

Date Collected: 11/26/13 11:25

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149125	11/27/13 08:29	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	149188	11/29/13 18:35	JL	TAL PLS

Client Sample ID: TS2-S1 (1.5)

Lab Sample ID: 720-54068-5

Date Collected: 11/26/13 11:40

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149125	11/27/13 08:29	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	149273	12/02/13 10:57	JL	TAL PLS

Client Sample ID: TS2-S2 (1.5)

Lab Sample ID: 720-54068-6

Date Collected: 11/26/13 11:42

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149125	11/27/13 08:29	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149188	11/29/13 14:07	JL	TAL PLS

Client Sample ID: TS2-S3 (1.5)

Lab Sample ID: 720-54068-7

Date Collected: 11/26/13 11:45

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149125	11/27/13 08:29	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149188	11/29/13 15:20	JL	TAL PLS

Client Sample ID: TS2-S4 (1.5)

Lab Sample ID: 720-54068-8

Date Collected: 11/26/13 11:50

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149125	11/27/13 08:29	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149188	11/29/13 14:31	JL	TAL PLS

Client Sample ID: TS3-S2 (1.5)

Lab Sample ID: 720-54068-9

Date Collected: 11/26/13 12:10

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149125	11/27/13 08:29	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149188	11/29/13 13:43	JL	TAL PLS

Client Sample ID: TS3-S3 (1.5)

Lab Sample ID: 720-54068-10

Date Collected: 11/26/13 12:13

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149125	11/27/13 08:29	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	149188	11/29/13 18:10	JL	TAL PLS

Client Sample ID: TS3-S4 (1.5)

Lab Sample ID: 720-54068-11

Date Collected: 11/26/13 12:15

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149125	11/27/13 08:29	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149189	11/29/13 15:20	JL	TAL PLS

Client Sample ID: TS4-S1 (1.5)

Lab Sample ID: 720-54068-12

Date Collected: 11/26/13 12:40

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149307	12/02/13 14:44	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149350	12/03/13 16:05	JL	TAL PLS

Client Sample ID: TS4-S2 (1.5)

Lab Sample ID: 720-54068-13

Date Collected: 11/26/13 12:45

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149307	12/02/13 14:44	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149351	12/03/13 17:04	JL	TAL PLS

Client Sample ID: TS4-S3 (1.5)

Lab Sample ID: 720-54068-14

Date Collected: 11/26/13 12:50

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149307	12/02/13 14:44	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149350	12/03/13 18:02	JL	TAL PLS

Client Sample ID: CS-S1 (1.5)

Lab Sample ID: 720-54068-15

Date Collected: 11/26/13 13:10

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149307	12/02/13 14:44	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149350	12/03/13 16:35	JL	TAL PLS

Client Sample ID: CS-S2 (1.5)

Lab Sample ID: 720-54068-16

Date Collected: 11/26/13 13:13

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149307	12/02/13 14:44	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149415	12/04/13 10:12	JL	TAL PLS

Client Sample ID: CS-S3 (1.5)

Lab Sample ID: 720-54068-17

Date Collected: 11/26/13 13:17

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149307	12/02/13 14:44	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149350	12/03/13 17:04	JL	TAL PLS

Client Sample ID: CS-S4 (1.5)

Lab Sample ID: 720-54068-18

Date Collected: 11/26/13 13:20

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149307	12/02/13 14:44	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149351	12/03/13 16:05	JL	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Client Sample ID: CS-S5 (1.5)

Lab Sample ID: 720-54068-19

Date Collected: 11/26/13 13:23

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149307	12/02/13 14:44	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149351	12/03/13 16:35	JL	TAL PLS

Client Sample ID: CS-S6 (1.5)

Lab Sample ID: 720-54068-20

Date Collected: 11/26/13 13:27

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149307	12/02/13 14:44	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149350	12/03/13 17:33	JL	TAL PLS

Client Sample ID: CS-S7 (1.5)

Lab Sample ID: 720-54068-21

Date Collected: 11/26/13 13:30

Matrix: Solid

Date Received: 11/26/13 17:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149307	12/02/13 14:44	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149351	12/03/13 18:02	JL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54068-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-54068-1	TS1-S1 (1.5)	Solid	11/26/13 11:15	11/26/13 17:10
720-54068-2	TS1-S2 (1.5)	Solid	11/26/13 11:19	11/26/13 17:10
720-54068-3	TS1-S3 (1.5)	Solid	11/26/13 11:22	11/26/13 17:10
720-54068-4	TS1-S4 (1.5)	Solid	11/26/13 11:25	11/26/13 17:10
720-54068-5	TS2-S1 (1.5)	Solid	11/26/13 11:40	11/26/13 17:10
720-54068-6	TS2-S2 (1.5)	Solid	11/26/13 11:42	11/26/13 17:10
720-54068-7	TS2-S3 (1.5)	Solid	11/26/13 11:45	11/26/13 17:10
720-54068-8	TS2-S4 (1.5)	Solid	11/26/13 11:50	11/26/13 17:10
720-54068-9	TS3-S2 (1.5)	Solid	11/26/13 12:10	11/26/13 17:10
720-54068-10	TS3-S3 (1.5)	Solid	11/26/13 12:13	11/26/13 17:10
720-54068-11	TS3-S4 (1.5)	Solid	11/26/13 12:15	11/26/13 17:10
720-54068-12	TS4-S1 (1.5)	Solid	11/26/13 12:40	11/26/13 17:10
720-54068-13	TS4-S2 (1.5)	Solid	11/26/13 12:45	11/26/13 17:10
720-54068-14	TS4-S3 (1.5)	Solid	11/26/13 12:50	11/26/13 17:10
720-54068-15	CS-S1 (1.5)	Solid	11/26/13 13:10	11/26/13 17:10
720-54068-16	CS-S2 (1.5)	Solid	11/26/13 13:13	11/26/13 17:10
720-54068-17	CS-S3 (1.5)	Solid	11/26/13 13:17	11/26/13 17:10
720-54068-18	CS-S4 (1.5)	Solid	11/26/13 13:20	11/26/13 17:10
720-54068-19	CS-S5 (1.5)	Solid	11/26/13 13:23	11/26/13 17:10
720-54068-20	CS-S6 (1.5)	Solid	11/26/13 13:27	11/26/13 17:10
720-54068-21	CS-S7 (1.5)	Solid	11/26/13 13:30	11/26/13 17:10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax (925) 600-3002

720-54068

Reference #: 150372

Date 11/26/13 Page 1 of 3

12/4/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St. Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT, ~~BM~~ JS
Attn: Accounts Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
TS1-S1 (1.5)	11/26/13	1115	Soil	Ice				X																	1
TS1-S2 (1.5)	11/26/13	1119	Soil	Ice				X																	1
TS1-S3 (1.5)	11/26/13	1122	Soil	Ice				X																	1
TS1-S4 (1.5)	11/26/13	1125	Soil	Ice				X																	1
TS2-S1 (1.5)	11/26/13	1140	Soil	Ice				X																	1
TS2-S2 (1.5)	11/26/13	1142	Soil	Ice				X																	1
TS2-S3 (1.5)	11/26/13	1145	Soil	Ice				X																	1
TS2-S4 (1.5)	11/26/13	1150	Soil	Ice				X																	1

720-54068 Chain of Custody

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Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: #39792

Sample Receipt

of Containers:
Head Space:
Temp: 1.4°C

Credit Card Y/N: If yes, please call with payment information ASAP

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1710	Signature: Time:	Signature: Time:
Printed Name: Vincent Tilotta Date: 11/26/13	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1710	Signature: Time:	Signature: Time:
Printed Name: [signature] Date: 11-26-13	Printed Name: Date:	Printed Name: Date:
Company: [signature]	Company:	Company:

Rev.10/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-54068

Reference #: 150372

Date 11/26/13 Page 2 of 3

12/4/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St. Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT, JS
Attn: Accounts Payable
Phone: 925-357-7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☐ Diesel ☒ Motor Oil ☐ Other	Semi Volatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
TS3-S2(1.5)	11/26/13	1210	Soil	Ice				X																		1
TS3-S3(1.5)	11/26/13	1213	Soil	Ice				X																		1
TS3-S4(1.5)	11/26/13	1215	Soil	Ice				X																		1
TS4-S1 (1.5)	11/26/13	1240	Soil	Ice				X																		1
TS4-S2 (1.5)	11/26/13	1245	Soil	Ice				X																		1
TS4-S3 (1.5)	11/26/13	1250	Soil	Ice				X																		1

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Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: #39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 1.4°

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: 1710 Time	Signature: Time	Signature: Time
Printed Name: Vincent Tilotta 11/26/13 Date	Printed Name: Date	Printed Name: Date
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: 1710 Time	Signature: Time	Signature: Time
Printed Name: Mulley 11-26-13 Date	Printed Name: Date	Printed Name: Date
Company: test America	Company:	Company:

Rev.10/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax (925) 600-3002

720-54068

Reference #: 150372

Date 11/26/13 Page 3 of 3

12/4/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St. Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT, ~~BSM~~ JS
Attn: Accounts Payable
Phone: 925-357-7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH: EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
CS-51 (1.5)	11/26/13	1310	Soil	Ice				X																	1
CS-52 (1.5)	11/26/13	1313	Soil	Ice				X																	1
CS-53 (1.5)	11/26/13	1317	Soil	Ice				X																	1
CS-54 (1.5)	11/26/13	1320	Soil	Ice				X																	1
CS-55 (1.5)	11/26/13	1323	Soil	Ice				X																	1
CS-56 (1.5)	11/26/13	1327	Soil	Ice				X																	1
CS-57 (1.5)	11/26/13	1330	Soil	Ice				X																	1

Page 43 of 44

Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: #39792
Credit Card Y/N.

Sample Receipt

of Containers:
Head Space:
Temp: 1.4°C
If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1710	Signature: Time:	Signature: Time:
Printed Name: Vincent Tiotta Date: 11/26/13	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1710	Signature: Time:	Signature: Time:
Printed Name: Mullen Date: 11-26-13	Printed Name: Date:	Printed Name: Date:
Company: [signature]	Company:	Company:

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-54068-1

Login Number: 54068

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



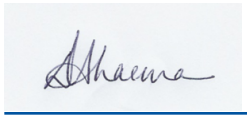
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-54083-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz



Authorized for release by:
12/5/2013 3:09:44 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-54083-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-54083-1

Comments
No additional comments.

Receipt
The samples were received on 11/27/2013 4:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7° C.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54083-1

Client Sample ID: EX10/11-B3(10.0) — Lab Sample ID: 720-54083-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	64		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	160		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX10/11-S8(6.0) — Lab Sample ID: 720-54083-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	46		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	160		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX10/11-S9(7.0) — Lab Sample ID: 720-54083-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	7.1		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX10/11-S10(4.0) — Lab Sample ID: 720-54083-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	45		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX10/11-S11(4.0) — Lab Sample ID: 720-54083-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.6		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX10/11-S12(4.0) — Lab Sample ID: 720-54083-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54083-1

Client Sample ID: EX10/11-B3(10.0)
Date Collected: 11/27/13 13:30
Date Received: 11/27/13 16:35

Lab Sample ID: 720-54083-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	64		1.0		mg/Kg		12/03/13 11:21	12/04/13 15:43	1
Motor Oil Range Organics [C24-C36]	160		50		mg/Kg		12/03/13 11:21	12/04/13 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.5*		*0 - 1*	*12/03/13 11:21*	*12/04/13 15:43*	*1*
p-Terphenyl	*88*		*38 - 148*	*12/03/13 11:21*	*12/04/13 15:43*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54083-1

Client Sample ID: EX10/11-S8(6.0)
Date Collected: 11/27/13 13:32
Date Received: 11/27/13 16:35

Lab Sample ID: 720-54083-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	46		1.0		mg/Kg		12/03/13 11:21	12/04/13 16:07	1
Motor Oil Range Organics [C24-C36]	160		50		mg/Kg		12/03/13 11:21	12/04/13 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*12/03/13 11:21*	*12/04/13 16:07*	*1*
p-Terphenyl	*107*		*38 - 148*	*12/03/13 11:21*	*12/04/13 16:07*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54083-1

Client Sample ID: EX10/11-S9(7.0)
Date Collected: 11/27/13 13:38
Date Received: 11/27/13 16:35

Lab Sample ID: 720-54083-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**7.1**		0.99		mg/Kg		12/03/13 11:21	12/05/13 10:57	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		12/03/13 11:21	12/05/13 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*12/03/13 11:21*	*12/05/13 10:57*	*1*
p-Terphenyl	*93*		*38 - 148*	*12/03/13 11:21*	*12/05/13 10:57*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54083-1

Client Sample ID: EX10/11-S10(4.0)
Date Collected: 11/27/13 13:10
Date Received: 11/27/13 16:35

Lab Sample ID: 720-54083-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**45**		0.99		mg/Kg		12/03/13 11:21	12/04/13 16:56	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/03/13 11:21	12/04/13 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.3*		*0 - 1*	*12/03/13 11:21*	*12/04/13 16:56*	*1*
p-Terphenyl	*94*		*38 - 148*	*12/03/13 11:21*	*12/04/13 16:56*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54083-1

Client Sample ID: EX10/11-S11(4.0)
Date Collected: 11/27/13 13:14
Date Received: 11/27/13 16:35

Lab Sample ID: 720-54083-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.6**		0.99		mg/Kg		12/03/13 11:21	12/04/13 17:21	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/03/13 11:21	12/04/13 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*12/03/13 11:21*	*12/04/13 17:21*	*1*
p-Terphenyl	*94*		*38 - 148*	*12/03/13 11:21*	*12/04/13 17:21*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54083-1

Client Sample ID: EX10/11-S12(4.0)
Date Collected: 11/27/13 13:16
Date Received: 11/27/13 16:35

Lab Sample ID: 720-54083-6
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		12/03/13 11:21	12/04/13 17:45	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/03/13 11:21	12/04/13 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*12/03/13 11:21*	*12/04/13 17:45*	*1*
p-Terphenyl	*93*		*38 - 148*	*12/03/13 11:21*	*12/04/13 17:45*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-149362/1-A
Matrix: Solid
Analysis Batch: 149414

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 149362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		12/03/13 11:21	12/04/13 15:43	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/03/13 11:21	12/04/13 15:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.006*		*0 - 1*	*12/03/13 11:21*	*12/04/13 15:43*	*1*
p-Terphenyl	*95*		*38 - 148*	*12/03/13 11:21*	*12/04/13 15:43*	*1*

Lab Sample ID: LCS 720-149362/2-A
Matrix: Solid
Analysis Batch: 149414

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 149362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.0	51.4		mg/Kg		62	36 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*120*		*38 - 148*

Lab Sample ID: LCSD 720-149362/3-A
Matrix: Solid
Analysis Batch: 149414

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 149362

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	82.9	49.5		mg/Kg		60	36 - 112	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*116*		*38 - 148*

Lab Sample ID: 720-54083-1 MS
Matrix: Solid
Analysis Batch: 149415

Client Sample ID: EX10/11-B3(10.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 149362

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	64		82.8	139		mg/Kg		90	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*110*		*38 - 148*

Lab Sample ID: 720-54083-1 MSD
Matrix: Solid
Analysis Batch: 149415

Client Sample ID: EX10/11-B3(10.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 149362

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	64		82.2	137		mg/Kg		88	50 - 150	2	30

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54083-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-54083-1 MSD
Matrix: Solid
Analysis Batch: 149415

Client Sample ID: EX10/11-B3(10.0)
Prep Type: Silica Gel Cleanup
Prep Batch: 149362

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	*108*		*38 - 148*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54083-1

GC Semi VOA

Prep Batch: 149362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54083-1	EX10/11-B3(10.0)	Silica Gel Cleanup	Solid	3546	
720-54083-1 MS	EX10/11-B3(10.0)	Silica Gel Cleanup	Solid	3546	
720-54083-1 MSD	EX10/11-B3(10.0)	Silica Gel Cleanup	Solid	3546	
720-54083-2	EX10/11-S8(6.0)	Silica Gel Cleanup	Solid	3546	
720-54083-3	EX10/11-S9(7.0)	Silica Gel Cleanup	Solid	3546	
720-54083-4	EX10/11-S10(4.0)	Silica Gel Cleanup	Solid	3546	
720-54083-5	EX10/11-S11(4.0)	Silica Gel Cleanup	Solid	3546	
720-54083-6	EX10/11-S12(4.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-149362/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-149362/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-149362/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 149414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-149362/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	149362
LCSD 720-149362/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	149362
MB 720-149362/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	149362

Analysis Batch: 149415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54083-1	EX10/11-B3(10.0)	Silica Gel Cleanup	Solid	8015B	149362
720-54083-1 MS	EX10/11-B3(10.0)	Silica Gel Cleanup	Solid	8015B	149362
720-54083-1 MSD	EX10/11-B3(10.0)	Silica Gel Cleanup	Solid	8015B	149362
720-54083-2	EX10/11-S8(6.0)	Silica Gel Cleanup	Solid	8015B	149362
720-54083-4	EX10/11-S10(4.0)	Silica Gel Cleanup	Solid	8015B	149362
720-54083-5	EX10/11-S11(4.0)	Silica Gel Cleanup	Solid	8015B	149362
720-54083-6	EX10/11-S12(4.0)	Silica Gel Cleanup	Solid	8015B	149362

Analysis Batch: 149496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54083-3	EX10/11-S9(7.0)	Silica Gel Cleanup	Solid	8015B	149362

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54083-1

Client Sample ID: EX10/11-B3(10.0)

Lab Sample ID: 720-54083-1

Date Collected: 11/27/13 13:30

Matrix: Solid

Date Received: 11/27/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149362	12/03/13 11:21	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149415	12/04/13 15:43	JL	TAL PLS

Client Sample ID: EX10/11-S8(6.0)

Lab Sample ID: 720-54083-2

Date Collected: 11/27/13 13:32

Matrix: Solid

Date Received: 11/27/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149362	12/03/13 11:21	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149415	12/04/13 16:07	JL	TAL PLS

Client Sample ID: EX10/11-S9(7.0)

Lab Sample ID: 720-54083-3

Date Collected: 11/27/13 13:38

Matrix: Solid

Date Received: 11/27/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149362	12/03/13 11:21	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149496	12/05/13 10:57	JL	TAL PLS

Client Sample ID: EX10/11-S10(4.0)

Lab Sample ID: 720-54083-4

Date Collected: 11/27/13 13:10

Matrix: Solid

Date Received: 11/27/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149362	12/03/13 11:21	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149415	12/04/13 16:56	JL	TAL PLS

Client Sample ID: EX10/11-S11(4.0)

Lab Sample ID: 720-54083-5

Date Collected: 11/27/13 13:14

Matrix: Solid

Date Received: 11/27/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149362	12/03/13 11:21	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149415	12/04/13 17:21	JL	TAL PLS

Client Sample ID: EX10/11-S12(4.0)

Lab Sample ID: 720-54083-6

Date Collected: 11/27/13 13:16

Matrix: Solid

Date Received: 11/27/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149362	12/03/13 11:21	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149415	12/04/13 17:45	JL	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54083-1

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54083-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54083-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54083-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-54083-1	EX10/11-B3(10.0)	Solid	11/27/13 13:30	11/27/13 16:35
720-54083-2	EX10/11-S8(6.0)	Solid	11/27/13 13:32	11/27/13 16:35
720-54083-3	EX10/11-S9(7.0)	Solid	11/27/13 13:38	11/27/13 16:35
720-54083-4	EX10/11-S10(4.0)	Solid	11/27/13 13:10	11/27/13 16:35
720-54083-5	EX10/11-S11(4.0)	Solid	11/27/13 13:14	11/27/13 16:35
720-54083-6	EX10/11-S12(4.0)	Solid	11/27/13 13:16	11/27/13 16:35

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-54083

Reference #: 150393

Date 11/27/13 Page 1 of 1

Report To

Attn: J Schwartz
Company: Haley & Aldrich
Address: 2033 N Main St Walnut Creek
Email: JSchwartz@haleyaldrich.com
Bill To: H&A
Sampled By: J Sebik
Attn: AP
Phone: 914 573 4472

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
EX10/11-B3(10.0)	11/27/13	1330	So	ice				X																	1
EX10/11-S8(6.0)		1332						X																	1
EX10/11-S9(7.0)		1338						X																	1
EX10/11-S10(4.0)		1310						X																	1
EX10/11-S11(4.0)		1314						X																	1
EX10/11-S12(4.0)		1316						X																	1

720-54083 Chain of Custody

JS 11/27/13

Page 20 of 21

Project Info.

Project Name/ #: Hanson
PO#: 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 3.7°C

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 · ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Joanna Sebik Time: 1635	Signature: Time:	Signature: Time:
Printed Name: Joanna Sebik Date: 11/27/13	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: John Keller 1635	Signature: Time:	Signature: Time:
Printed Name: J Keller 11-27-13 Date:	Printed Name: Date:	Printed Name: Date:
Company: TAL-SAC	Company:	Company:

Rev.10/2012

12/5/2013

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-54083-1

Login Number: 54083

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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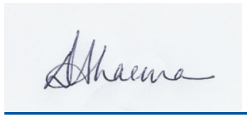
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-54085-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz



Authorized for release by:
12/5/2013 3:13:09 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54085-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-54085-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-54085-1

Comments
No additional comments.

Receipt
The samples were received on 11/27/2013 4:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7° C.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: CS-S8(1.5) (720-54085-2).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54085-1

Client Sample ID: CS-B12(3.0) — Lab Sample ID: 720-54085-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.9		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CS-S8(1.5) — Lab Sample ID: 720-54085-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	190		10		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1000		500		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: CS-S9(1.5) — Lab Sample ID: 720-54085-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54085-1

Client Sample ID: CS-B12(3.0)
Date Collected: 11/27/13 12:58
Date Received: 11/27/13 16:35

Lab Sample ID: 720-54085-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.9**		1.0		mg/Kg		12/03/13 11:21	12/04/13 18:09	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/03/13 11:21	12/04/13 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*12/03/13 11:21*	*12/04/13 18:09*	*1*
p-Terphenyl	*96*		*38 - 148*	*12/03/13 11:21*	*12/04/13 18:09*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54085-1

Client Sample ID: CS-S8(1.5)
Date Collected: 11/27/13 13:00
Date Received: 11/27/13 16:35

Lab Sample ID: 720-54085-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	190		10		mg/Kg		12/03/13 11:21	12/05/13 11:56	10
Motor Oil Range Organics [C24-C36]	1000		500		mg/Kg		12/03/13 11:21	12/05/13 11:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*12/03/13 11:21*	*12/05/13 11:56*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*12/03/13 11:21*	*12/05/13 11:56*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54085-1

Client Sample ID: CS-S9(1.5)
Date Collected: 11/27/13 13:02
Date Received: 11/27/13 16:35

Lab Sample ID: 720-54085-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		12/03/13 11:21	12/04/13 18:58	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/03/13 11:21	12/04/13 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*12/03/13 11:21*	*12/04/13 18:58*	*1*
p-Terphenyl	*89*		*38 - 148*	*12/03/13 11:21*	*12/04/13 18:58*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54085-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-149362/1-A
Matrix: Solid
Analysis Batch: 149414

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 149362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		12/03/13 11:21	12/04/13 15:43	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/03/13 11:21	12/04/13 15:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.006*		*0 - 1*	*12/03/13 11:21*	*12/04/13 15:43*	*1*
p-Terphenyl	*95*		*38 - 148*	*12/03/13 11:21*	*12/04/13 15:43*	*1*

Lab Sample ID: LCS 720-149362/2-A
Matrix: Solid
Analysis Batch: 149414

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 149362

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			83.0	51.4		mg/Kg		62	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*120*		*38 - 148*

Lab Sample ID: LCSD 720-149362/3-A
Matrix: Solid
Analysis Batch: 149414

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 149362

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.9	49.5		mg/Kg		60	36 - 112	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*116*		*38 - 148*

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54085-1

GC Semi VOA

Prep Batch: 149362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54085-1	CS-B12(3.0)	Silica Gel Cleanup	Solid	3546	
720-54085-2	CS-S8(1.5)	Silica Gel Cleanup	Solid	3546	
720-54085-3	CS-S9(1.5)	Silica Gel Cleanup	Solid	3546	
LCS 720-149362/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-149362/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-149362/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 149414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-149362/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	149362
LCSD 720-149362/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	149362
MB 720-149362/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	149362

Analysis Batch: 149415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54085-1	CS-B12(3.0)	Silica Gel Cleanup	Solid	8015B	149362
720-54085-3	CS-S9(1.5)	Silica Gel Cleanup	Solid	8015B	149362

Analysis Batch: 149496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54085-2	CS-S8(1.5)	Silica Gel Cleanup	Solid	8015B	149362

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54085-1

Client Sample ID: CS-B12(3.0)

Lab Sample ID: 720-54085-1

Date Collected: 11/27/13 12:58

Matrix: Solid

Date Received: 11/27/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149362	12/03/13 11:21	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149415	12/04/13 18:09	JL	TAL PLS

Client Sample ID: CS-S8(1.5)

Lab Sample ID: 720-54085-2

Date Collected: 11/27/13 13:00

Matrix: Solid

Date Received: 11/27/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149362	12/03/13 11:21	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	149496	12/05/13 11:56	JL	TAL PLS

Client Sample ID: CS-S9(1.5)

Lab Sample ID: 720-54085-3

Date Collected: 11/27/13 13:02

Matrix: Solid

Date Received: 11/27/13 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149362	12/03/13 11:21	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149415	12/04/13 18:58	JL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54085-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54085-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54085-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-54085-1	CS-B12(3.0)	Solid	11/27/13 12:58	11/27/13 16:35
720-54085-2	CS-S8(1.5)	Solid	11/27/13 13:00	11/27/13 16:35
720-54085-3	CS-S9(1.5)	Solid	11/27/13 13:02	11/27/13 16:35

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-54085

Reference #: 150394

Date 11/27/13 Page 1 of 1

Report To

Attn: J Schwartz
Company: Haley & Aldrich
Address: 2033 N Main St
Email: jschwartz@haleyaldrich.
Bill To: HSA
Sampled By: J Sebik
Attn: AP
Phone: 914-573-1477

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☑ Silica Gel ☑ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals. ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals. ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions : ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
CS-B12 (3-5)	11/27/13	1258	So	Ice				X																	1
CS-SB (1-5)	↓	1300	↓	↓				X																	1
CS-SB (1-5)	↓	1302	↓	↓				X																	1
							JS																		
							11/27/13																		

720-54085 Chain of Custody

Project Info.

Project Name/ #: Hanson
PO#: 39792

Sample Receipt

of Containers:
Head Space:
Temp: 3.7°

Credit Card Y/N: If yes, please call with payment information ASAP

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

12/5/2013

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1635	Signature: Time:	Signature: Time:
Printed Name: Joanna Sebik Date: 11/27/13	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1635	Signature: Time:	Signature: Time:
Printed Name: [signature] Date: 11-27-13	Printed Name: Date:	Printed Name: Date:
Company: [signature]	Company:	Company:

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-54085-1

Login Number: 54085

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



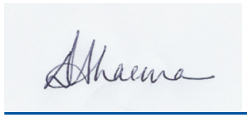
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-54190-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz



Authorized for release by:
12/11/2013 4:00:18 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54190-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-54190-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-54190-1

Comments
No additional comments.

Receipt
The samples were received on 12/5/2013 5:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.4º C.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: TS3-S5(1.5) (720-54190-3).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54190-1

Client Sample ID: TS1-S5-(1.5) — Lab Sample ID: 720-54190-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	68		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	220		150		mg/Kg	3		8015B	Silica Gel Cleanup

Client Sample ID: TS1-S6(1.5) — Lab Sample ID: 720-54190-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	12		0.98		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS3-S5(1.5) — Lab Sample ID: 720-54190-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	110		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	540		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: 2-OWS-S9(2.5) — Lab Sample ID: 720-54190-4

No Detections.

Client Sample ID: 2-OWS-S10(2.5) — Lab Sample ID: 720-54190-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.7		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: 2-OWS-S11(2.5) — Lab Sample ID: 720-54190-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.9		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54190-1

Client Sample ID: TS1-S5-(1.5)
Date Collected: 12/05/13 14:45
Date Received: 12/05/13 17:05

Lab Sample ID: 720-54190-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	68		3.0		mg/Kg		12/07/13 14:01	12/11/13 11:00	3
Motor Oil Range Organics [C24-C36]	220		150		mg/Kg		12/07/13 14:01	12/11/13 11:00	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.3*		*0 - 1*	*12/07/13 14:01*	*12/11/13 11:00*	*3*
p-Terphenyl	*98*		*38 - 148*	*12/07/13 14:01*	*12/11/13 11:00*	*3*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54190-1

Client Sample ID: TS1-S6(1.5)
Date Collected: 12/05/13 14:50
Date Received: 12/05/13 17:05

Lab Sample ID: 720-54190-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**12**		0.98		mg/Kg		12/07/13 14:01	12/10/13 20:58	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		12/07/13 14:01	12/10/13 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.03*		*0 - 1*	*12/07/13 14:01*	*12/10/13 20:58*	*1*
p-Terphenyl	*85*		*38 - 148*	*12/07/13 14:01*	*12/10/13 20:58*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54190-1

Client Sample ID: TS3-S5(1.5)
Date Collected: 12/05/13 15:00
Date Received: 12/05/13 17:05

Lab Sample ID: 720-54190-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	110		5.0		mg/Kg		12/07/13 14:01	12/11/13 11:30	5
Motor Oil Range Organics [C24-C36]	540		250		mg/Kg		12/07/13 14:01	12/11/13 11:30	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*12/07/13 14:01*	*12/11/13 11:30*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*12/07/13 14:01*	*12/11/13 11:30*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54190-1

Client Sample ID: 2-OWS-S9(2.5)
Date Collected: 12/05/13 15:25
Date Received: 12/05/13 17:05

Lab Sample ID: 720-54190-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		12/07/13 14:01	12/10/13 20:00	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/07/13 14:01	12/10/13 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.006*		*0 - 1*	*12/07/13 14:01*	*12/10/13 20:00*	*1*
p-Terphenyl	*79*		*38 - 148*	*12/07/13 14:01*	*12/10/13 20:00*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54190-1

Client Sample ID: 2-OWS-S10(2.5) **Lab Sample ID: 720-54190-5**
Date Collected: 12/05/13 15:30 **Matrix: Solid**
Date Received: 12/05/13 17:05

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.7**		1.0		mg/Kg		12/07/13 14:01	12/10/13 19:02	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/07/13 14:01	12/10/13 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*12/07/13 14:01*	*12/10/13 19:02*	*1*
p-Terphenyl	*87*		*38 - 148*	*12/07/13 14:01*	*12/10/13 19:02*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54190-1

Client Sample ID: 2-OWS-S11(2.5)
Date Collected: 12/05/13 15:35
Date Received: 12/05/13 17:05

Lab Sample ID: 720-54190-6
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.9**		1.0		mg/Kg		12/07/13 14:01	12/10/13 19:31	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/07/13 14:01	12/10/13 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*12/07/13 14:01*	*12/10/13 19:31*	*1*
p-Terphenyl	*86*		*38 - 148*	*12/07/13 14:01*	*12/10/13 19:31*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-149660/1-A
Matrix: Solid
Analysis Batch: 149763

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 149660

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		12/07/13 14:01	12/10/13 23:54	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/07/13 14:01	12/10/13 23:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*12/07/13 14:01*	*12/10/13 23:54*	*1*
p-Terphenyl	*94*		*38 - 148*	*12/07/13 14:01*	*12/10/13 23:54*	*1*

Lab Sample ID: LCS 720-149660/2-A
Matrix: Solid
Analysis Batch: 149763

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 149660

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.0	66.6		mg/Kg		81	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*114*		*38 - 148*

Lab Sample ID: LCSD 720-149660/3-A
Matrix: Solid
Analysis Batch: 149763

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 149660

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			83.3	50.7		mg/Kg		61	36 - 112	27	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*109*		*38 - 148*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54190-1

GC Semi VOA

Prep Batch: 149660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54190-1	TS1-S5-(1.5)	Silica Gel Cleanup	Solid	3546	
720-54190-2	TS1-S6(1.5)	Silica Gel Cleanup	Solid	3546	
720-54190-3	TS3-S5(1.5)	Silica Gel Cleanup	Solid	3546	
720-54190-4	2-OWS-S9(2.5)	Silica Gel Cleanup	Solid	3546	
720-54190-5	2-OWS-S10(2.5)	Silica Gel Cleanup	Solid	3546	
720-54190-6	2-OWS-S11(2.5)	Silica Gel Cleanup	Solid	3546	
LCS 720-149660/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-149660/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-149660/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 149763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-149660/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	149660
LCSD 720-149660/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	149660
MB 720-149660/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	149660

Analysis Batch: 149764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54190-2	TS1-S6(1.5)	Silica Gel Cleanup	Solid	8015B	149660
720-54190-4	2-OWS-S9(2.5)	Silica Gel Cleanup	Solid	8015B	149660
720-54190-5	2-OWS-S10(2.5)	Silica Gel Cleanup	Solid	8015B	149660
720-54190-6	2-OWS-S11(2.5)	Silica Gel Cleanup	Solid	8015B	149660

Analysis Batch: 149840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54190-1	TS1-S5-(1.5)	Silica Gel Cleanup	Solid	8015B	149660
720-54190-3	TS3-S5(1.5)	Silica Gel Cleanup	Solid	8015B	149660

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54190-1

Client Sample ID: TS1-S5-(1.5)

Lab Sample ID: 720-54190-1

Date Collected: 12/05/13 14:45

Matrix: Solid

Date Received: 12/05/13 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149660	12/07/13 14:01	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	149840	12/11/13 11:00	JL	TAL PLS

Client Sample ID: TS1-S6(1.5)

Lab Sample ID: 720-54190-2

Date Collected: 12/05/13 14:50

Matrix: Solid

Date Received: 12/05/13 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149660	12/07/13 14:01	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149764	12/10/13 20:58	JL	TAL PLS

Client Sample ID: TS3-S5(1.5)

Lab Sample ID: 720-54190-3

Date Collected: 12/05/13 15:00

Matrix: Solid

Date Received: 12/05/13 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149660	12/07/13 14:01	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	149840	12/11/13 11:30	JL	TAL PLS

Client Sample ID: 2-OWS-S9(2.5)

Lab Sample ID: 720-54190-4

Date Collected: 12/05/13 15:25

Matrix: Solid

Date Received: 12/05/13 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149660	12/07/13 14:01	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149764	12/10/13 20:00	JL	TAL PLS

Client Sample ID: 2-OWS-S10(2.5)

Lab Sample ID: 720-54190-5

Date Collected: 12/05/13 15:30

Matrix: Solid

Date Received: 12/05/13 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149660	12/07/13 14:01	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149764	12/10/13 19:02	JL	TAL PLS

Client Sample ID: 2-OWS-S11(2.5)

Lab Sample ID: 720-54190-6

Date Collected: 12/05/13 15:35

Matrix: Solid

Date Received: 12/05/13 17:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			149660	12/07/13 14:01	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	149764	12/10/13 19:31	JL	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54190-1

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54190-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54190-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54190-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-54190-1	TS1-S5-(1.5)	Solid	12/05/13 14:45	12/05/13 17:05
720-54190-2	TS1-S6(1.5)	Solid	12/05/13 14:50	12/05/13 17:05
720-54190-3	TS3-S5(1.5)	Solid	12/05/13 15:00	12/05/13 17:05
720-54190-4	2-OWS-S9(2.5)	Solid	12/05/13 15:25	12/05/13 17:05
720-54190-5	2-OWS-S10(2.5)	Solid	12/05/13 15:30	12/05/13 17:05
720-54190-6	2-OWS-S11(2.5)	Solid	12/05/13 15:35	12/05/13 17:05

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-54190

Reference #: 150492

Date 12/5/13 Page 1 of 1

12/11/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St. Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT
Attn: Accounts Payable
Phone: 925-357-7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
TS1-SS(1.5)	12/5/13	1445	Soil	Ice				X																		1
TS1-SS(1.5)	12/5/13	1450	Soil	Ice				X																		1
TS3-SS(1.5)	12/5/13	1500	Soil	Ice				X																		1
2-ows-SS(2.5)	12/5/13	1525	Soil	Ice				X																		1
2-ows-SS(2.5)	12/5/13	1530	Soil	Ice				X																		1
2-ows-SS(2.5)	12/5/13	1535	Soil	Ice				X																		1

720-54190 Chain of Custody

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Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: #39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 0.4°c

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1705	Signature: Time:	Signature: Time:
Printed Name: Vincent Tiloffa Date: 12/5/13	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1705	Signature: Time:	Signature: Time:
Printed Name: Justin Gonzales Date: 12/5/13	Printed Name: Date:	Printed Name: Date:
Company: TAP	Company:	Company:

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-54190-1

Login Number: 54190

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-54435-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz

Authorized for release by:
12/27/2013 5:32:04 PM
Micah Smith, Project Manager I
( )
micah.smith@testamericainc.com

Designee for

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F	MS/MSD Recovery and/or RPD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-54435-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-54435-1

Comments
No additional comments.

Receipt
The samples were received on 12/17/2013 2:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8º C.

GC/MS VOA
Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for batch #150323 were outside control limits. Sample matrix interference and/or non-homogeniety are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270C SIM: The following sample(s) was diluted due to color: RL-B4 (720-54435-4). Elevated reporting limits (RL) are provided.

Method(s) 8270C SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for batch 150688 were outside control limits. Sample matrix interference and/or non-homogeniety are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: RL-B1 (720-54435-1).

Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: 2-OWS-COMP (720-54435-23), RL-B2 (720-54435-2), RL-B5 (720-54435-5), TS3-S6(1.5) (720-54435-18).

Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: (720-54435-4 MS), (720-54435-4 MSD), RL-B3 (720-54435-3).

Method(s) 8015B: Capric acid Surrogate recovery for the following sample(s) was outside control limits: RL-B12 (720-54435-12), RL-B4 (720-54435-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for batch 150695 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8082: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: RL-B3 (720-54435-3).

Method(s) 8082: The following sample(s) appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: RL-B2 (720-54435-2). The sample(s) has been quantified and reported as Aroclor 1254. Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

Method(s) 8082: The following sample(s) appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other

Job ID: 720-54435-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: RL-B13 (720-54435-13), RL-B14 (720-54435-14), RL-B9 (720-54435-9). The sample(s) has been quantified and reported as Aroclor 12540. Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

Method(s) 8082: The following sample(s) appears to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: RL-B12 (720-54435-12). The sample(s) has been quantified and reported as Aroclor 1260. Due to the poor match with the Aroclor standard(s), there is increased qualitative and quantitative uncertainty associated with this result.

No other analytical or quality issues were noted.

Metals

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 150309 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010B: The serial dilution performed for the following sample(s) associated with prep batch 150309 was outside control limits for Co, Ni: (720-54435-1 SD)

Method(s) 6010B: The continuing calibration verification (CCV) associated with analytcal batch 150606 recovered above the upper control limit for Se. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 2-OWS-COMP (720-54435-23).

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: RL-B1 — Lab Sample ID: 720-54435-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	160		99		ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	180		99		ug/Kg	10		8270C SIM	Total/NA
Pyrene	160		99		ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	400		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	380		250		mg/Kg	5		8015B	Silica Gel Cleanup
Chromium	52		2.0		mg/Kg	4		6010B	Total/NA
Nickel	70		2.0		mg/Kg	4		6010B	Total/NA
Lead	20		2.0		mg/Kg	4		6010B	Total/NA
Zinc	55		5.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: RL-B2 — Lab Sample ID: 720-54435-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	550		100		ug/Kg	10		8270C SIM	Total/NA
Anthracene	1100		100		ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	2100		100		ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	1300		100		ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	1800		100		ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	470		100		ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	660		100		ug/Kg	10		8270C SIM	Total/NA
Chrysene	2200		100		ug/Kg	10		8270C SIM	Total/NA
Dibenz(a,h)anthracene	190		100		ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	4900		100		ug/Kg	10		8270C SIM	Total/NA
Fluorene	380		100		ug/Kg	10		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	450		100		ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	3800		100		ug/Kg	10		8270C SIM	Total/NA
Pyrene	4900		100		ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	670		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	720		250		mg/Kg	5		8015B	Silica Gel Cleanup
PCB-1254	210		49		ug/Kg	1		8082	Total/NA
Chromium	54		2.0		mg/Kg	4		6010B	Total/NA
Nickel	68		2.0		mg/Kg	4		6010B	Total/NA
Lead	34		2.0		mg/Kg	4		6010B	Total/NA
Zinc	55		5.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: RL-B3 — Lab Sample ID: 720-54435-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	1500		500		ug/Kg	50		8270C SIM	Total/NA
Anthracene	4400		500		ug/Kg	50		8270C SIM	Total/NA
Benzo[a]anthracene	9300		500		ug/Kg	50		8270C SIM	Total/NA
Benzo[a]pyrene	6200		500		ug/Kg	50		8270C SIM	Total/NA
Benzo[b]fluoranthene	8800		500		ug/Kg	50		8270C SIM	Total/NA
Benzo[g,h,i]perylene	1300		500		ug/Kg	50		8270C SIM	Total/NA
Benzo[k]fluoranthene	4200		500		ug/Kg	50		8270C SIM	Total/NA
Chrysene	10000		500		ug/Kg	50		8270C SIM	Total/NA
Dibenz(a,h)anthracene	600		500		ug/Kg	50		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RL-B3 (Continued) — Lab Sample ID: 720-54435-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	22000		500		ug/Kg	50		8270C SIM	Total/NA
Fluorene	970		500		ug/Kg	50		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	1400		500		ug/Kg	50		8270C SIM	Total/NA
Phenanthrene	14000		500		ug/Kg	50		8270C SIM	Total/NA
Pyrene	22000		500		ug/Kg	50		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	590		4.9		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	910		250		mg/Kg	5		8015B	Silica Gel Cleanup
PCB-1254	2000		490		ug/Kg	10		8082	Total/NA
Chromium	40		1.8		mg/Kg	4		6010B	Total/NA
Nickel	58		1.8		mg/Kg	4		6010B	Total/NA
Lead	24		1.8		mg/Kg	4		6010B	Total/NA
Zinc	63		5.5		mg/Kg	4		6010B	Total/NA

Client Sample ID: RL-B4 — Lab Sample ID: 720-54435-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	230		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	520		150		mg/Kg	3		8015B	Silica Gel Cleanup
Cadmium	0.19		0.11		mg/Kg	1		6010B	Total/NA
Chromium	51		1.8		mg/Kg	4		6010B	Total/NA
Nickel	69		1.8		mg/Kg	4		6010B	Total/NA
Lead	35		1.8		mg/Kg	4		6010B	Total/NA
Zinc	84		5.4		mg/Kg	4		6010B	Total/NA

Client Sample ID: RL-B5 — Lab Sample ID: 720-54435-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	160		100		ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	100		100		ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	110		100		ug/Kg	10		8270C SIM	Total/NA
Chrysene	140		100		ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	360		100		ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	460		100		ug/Kg	10		8270C SIM	Total/NA
Pyrene	290		100		ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	160		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	480		250		mg/Kg	5		8015B	Silica Gel Cleanup
Cadmium	0.13		0.12		mg/Kg	1		6010B	Total/NA
Chromium	45		2.0		mg/Kg	4		6010B	Total/NA
Nickel	64		2.0		mg/Kg	4		6010B	Total/NA
Lead	26		2.0		mg/Kg	4		6010B	Total/NA
Zinc	130		5.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: RL-B6 — Lab Sample ID: 720-54435-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	270		100		ug/Kg	10		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RL-B6 (Continued) — Lab Sample ID: 720-54435-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	390		100		ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	510		100		ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	270		100		ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	440		100		ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	110		100		ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	170		100		ug/Kg	10		8270C SIM	Total/NA
Chrysene	560		100		ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	1900		100		ug/Kg	10		8270C SIM	Total/NA
Fluorene	230		100		ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	2200		100		ug/Kg	10		8270C SIM	Total/NA
Pyrene	1600		100		ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	140		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	340		150		mg/Kg	3		8015B	Silica Gel Cleanup
Chromium	60		1.8		mg/Kg	4		6010B	Total/NA
Nickel	73		1.8		mg/Kg	4		6010B	Total/NA
Lead	19		1.8		mg/Kg	4		6010B	Total/NA
Zinc	89		5.5		mg/Kg	4		6010B	Total/NA

Client Sample ID: RL-B7 — Lab Sample ID: 720-54435-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	120		99		ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	100		99		ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	160		99		ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	160		99		ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	200		99		ug/Kg	10		8270C SIM	Total/NA
Pyrene	150		99		ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	260		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	430		150		mg/Kg	3		8015B	Silica Gel Cleanup
Cadmium	0.12		0.11		mg/Kg	1		6010B	Total/NA
Chromium	31		1.7		mg/Kg	4		6010B	Total/NA
Nickel	45		1.7		mg/Kg	4		6010B	Total/NA
Lead	12		1.7		mg/Kg	4		6010B	Total/NA
Zinc	36		5.2		mg/Kg	4		6010B	Total/NA

Client Sample ID: RL-B8 — Lab Sample ID: 720-54435-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	89		50		ug/Kg	5		8270C SIM	Total/NA
Anthracene	180		50		ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	220		50		ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	150		50		ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	240		50		ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	74		50		ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	90		50		ug/Kg	5		8270C SIM	Total/NA
Chrysene	240		50		ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	650		50		ug/Kg	5		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RL-B8 (Continued) — Lab Sample ID: 720-54435-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	67		50		ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	56		50		ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	580		50		ug/Kg	5		8270C SIM	Total/NA
Pyrene	570		50		ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	110		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	190		50		mg/Kg	1		8015B	Silica Gel Cleanup
Chromium	50		1.9		mg/Kg	4		6010B	Total/NA
Nickel	64		1.9		mg/Kg	4		6010B	Total/NA
Lead	13		1.9		mg/Kg	4		6010B	Total/NA
Zinc	56		5.6		mg/Kg	4		6010B	Total/NA

Client Sample ID: RL-B9 — Lab Sample ID: 720-54435-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	150		9.9		ug/Kg	2		8270C SIM	Total/NA
Anthracene	140		9.9		ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	130		9.9		ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	64		9.9		ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	120		9.9		ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	25		9.9		ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	45		9.9		ug/Kg	2		8270C SIM	Total/NA
Chrysene	140		9.9		ug/Kg	2		8270C SIM	Total/NA
Fluoranthene	500		9.9		ug/Kg	2		8270C SIM	Total/NA
Fluorene	120		9.9		ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	20		9.9		ug/Kg	2		8270C SIM	Total/NA
Naphthalene	28		9.9		ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	690		9.9		ug/Kg	2		8270C SIM	Total/NA
Pyrene	390		9.9		ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	130		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	220		150		mg/Kg	3		8015B	Silica Gel Cleanup
PCB-1254	110		49		ug/Kg	1		8082	Total/NA
Chromium	55		1.8		mg/Kg	4		6010B	Total/NA
Nickel	71		1.8		mg/Kg	4		6010B	Total/NA
Lead	13		1.8		mg/Kg	4		6010B	Total/NA
Zinc	73		5.5		mg/Kg	4		6010B	Total/NA

Client Sample ID: RL-B10 — Lab Sample ID: 720-54435-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	47		9.9		ug/Kg	2		8270C SIM	Total/NA
Benzo[a]anthracene	41		9.9		ug/Kg	2		8270C SIM	Total/NA
Benzo[a]pyrene	79		9.9		ug/Kg	2		8270C SIM	Total/NA
Benzo[b]fluoranthene	150		9.9		ug/Kg	2		8270C SIM	Total/NA
Benzo[g,h,i]perylene	96		9.9		ug/Kg	2		8270C SIM	Total/NA
Benzo[k]fluoranthene	55		9.9		ug/Kg	2		8270C SIM	Total/NA
Chrysene	64		9.9		ug/Kg	2		8270C SIM	Total/NA
Dibenz(a,h)anthracene	18		9.9		ug/Kg	2		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RL-B10 (Continued) — Lab Sample ID: 720-54435-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	76		9.9		ug/Kg	2		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	53		9.9		ug/Kg	2		8270C SIM	Total/NA
Phenanthrene	51		9.9		ug/Kg	2		8270C SIM	Total/NA
Pyrene	86		9.9		ug/Kg	2		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	110		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	200		50		mg/Kg	1		8015B	Silica Gel Cleanup
Chromium	65		1.9		mg/Kg	4		6010B	Total/NA
Nickel	76		1.9		mg/Kg	4		6010B	Total/NA
Lead	18		1.9		mg/Kg	4		6010B	Total/NA
Zinc	58		5.6		mg/Kg	4		6010B	Total/NA

Client Sample ID: RL-B11 — Lab Sample ID: 720-54435-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	82		2.0		mg/Kg	4		6010B	Total/NA
Nickel	110		2.0		mg/Kg	4		6010B	Total/NA
Lead	9.5		2.0		mg/Kg	4		6010B	Total/NA
Zinc	62		5.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: RL-B12 — Lab Sample ID: 720-54435-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	350		9.9		ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	20		9.9		ug/Kg	1		8270C SIM	Total/NA
Anthracene	230		9.9		ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	360		9.9		ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	190		9.9		ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	260		9.9		ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	190		9.9		ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	210		9.9		ug/Kg	1		8270C SIM	Total/NA
Chrysene	360		9.9		ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	50		9.9		ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	1200		9.9		ug/Kg	1		8270C SIM	Total/NA
Fluorene	130		9.9		ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	120		9.9		ug/Kg	1		8270C SIM	Total/NA
Naphthalene	59		9.9		ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	580		9.9		ug/Kg	1		8270C SIM	Total/NA
Pyrene	1200		9.9		ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	85		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	180		50		mg/Kg	1		8015B	Silica Gel Cleanup
PCB-1260	68		49		ug/Kg	1		8082	Total/NA
Chromium	43		1.6		mg/Kg	4		6010B	Total/NA
Nickel	59		1.6		mg/Kg	4		6010B	Total/NA
Lead	9.5		1.6		mg/Kg	4		6010B	Total/NA
Zinc	46		4.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: RL-B13 — Lab Sample ID: 720-54435-13

This Detection Summary does not include radiochemical test results.

Client Sample ID: RL-B13 (Continued)

Lab Sample ID: 720-54435-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	54		49		ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	110		49		ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	75		49		ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	68		49		ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	60		49		ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	58		49		ug/Kg	10		8270C SIM	Total/NA
Chrysene	120		49		ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	280		49		ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	170		49		ug/Kg	10		8270C SIM	Total/NA
Pyrene	300		49		ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	83		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	360		150		mg/Kg	3		8015B	Silica Gel Cleanup
PCB-1254	74		50		ug/Kg	1		8082	Total/NA
Chromium	51		1.9		mg/Kg	4		6010B	Total/NA
Nickel	64		1.9		mg/Kg	4		6010B	Total/NA
Lead	9.6		1.9		mg/Kg	4		6010B	Total/NA
Zinc	150		5.7		mg/Kg	4		6010B	Total/NA

Client Sample ID: RL-B14

Lab Sample ID: 720-54435-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	78		25		ug/Kg	5		8270C SIM	Total/NA
Anthracene	130		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	260		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	220		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	240		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	110		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	190		25		ug/Kg	5		8270C SIM	Total/NA
Chrysene	280		25		ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	61		25		ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	510		25		ug/Kg	5		8270C SIM	Total/NA
Fluorene	64		25		ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	100		25		ug/Kg	5		8270C SIM	Total/NA
Naphthalene	28		25		ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	400		25		ug/Kg	5		8270C SIM	Total/NA
Pyrene	540		25		ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	97		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	300		150		mg/Kg	3		8015B	Silica Gel Cleanup
PCB-1254	110		50		ug/Kg	1		8082	Total/NA
Chromium	55		1.8		mg/Kg	4		6010B	Total/NA
Nickel	75		1.8		mg/Kg	4		6010B	Total/NA
Lead	10		1.8		mg/Kg	4		6010B	Total/NA
Zinc	55		5.3		mg/Kg	4		6010B	Total/NA

Client Sample ID: RL-B15

Lab Sample ID: 720-54435-15

This Detection Summary does not include radiochemical test results.

Client Sample ID: RL-B15 (Continued)

Lab Sample ID: 720-54435-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	5.4		4.9		ug/Kg	1		8270C SIM	Total/NA
Acenaphthylene	8.7		4.9		ug/Kg	1		8270C SIM	Total/NA
Anthracene	18		4.9		ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	6.8		4.9		ug/Kg	1		8270C SIM	Total/NA
Benzo[b]fluoranthene	10		4.9		ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	17		4.9		ug/Kg	1		8270C SIM	Total/NA
Chrysene	7.1		4.9		ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	19		4.9		ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	8.9		4.9		ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	20		4.9		ug/Kg	1		8270C SIM	Total/NA
Pyrene	14		4.9		ug/Kg	1		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	22		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	57		50		mg/Kg	1		8015B	Silica Gel Cleanup
Chromium	74		1.7		mg/Kg	4		6010B	Total/NA
Nickel	91		1.7		mg/Kg	4		6010B	Total/NA
Lead	7.8		1.7		mg/Kg	4		6010B	Total/NA
Zinc	51		5.2		mg/Kg	4		6010B	Total/NA

Client Sample ID: RL-B16

Lab Sample ID: 720-54435-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	110		25		ug/Kg	5		8270C SIM	Total/NA
Anthracene	340		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[a]anthracene	580		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[a]pyrene	380		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[b]fluoranthene	520		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[g,h,i]perylene	120		25		ug/Kg	5		8270C SIM	Total/NA
Benzo[k]fluoranthene	240		25		ug/Kg	5		8270C SIM	Total/NA
Chrysene	630		25		ug/Kg	5		8270C SIM	Total/NA
Dibenz(a,h)anthracene	47		25		ug/Kg	5		8270C SIM	Total/NA
Fluoranthene	1500		25		ug/Kg	5		8270C SIM	Total/NA
Fluorene	89		25		ug/Kg	5		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	120		25		ug/Kg	5		8270C SIM	Total/NA
Phenanthrene	1100		25		ug/Kg	5		8270C SIM	Total/NA
Pyrene	1400		25		ug/Kg	5		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	56		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	120		50		mg/Kg	1		8015B	Silica Gel Cleanup
Cadmium	0.12		0.11		mg/Kg	1		6010B	Total/NA
Chromium	53		1.7		mg/Kg	4		6010B	Total/NA
Nickel	64		1.7		mg/Kg	4		6010B	Total/NA
Lead	11		1.7		mg/Kg	4		6010B	Total/NA
Zinc	86		5.2		mg/Kg	4		6010B	Total/NA

Client Sample ID: RL-B17

Lab Sample ID: 720-54435-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	250		49		ug/Kg	10		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RL-B17 (Continued) — Lab Sample ID: 720-54435-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	550		49		ug/Kg	10		8270C SIM	Total/NA
Benzo[a]anthracene	310		49		ug/Kg	10		8270C SIM	Total/NA
Benzo[a]pyrene	220		49		ug/Kg	10		8270C SIM	Total/NA
Benzo[b]fluoranthene	640		49		ug/Kg	10		8270C SIM	Total/NA
Benzo[g,h,i]perylene	240		49		ug/Kg	10		8270C SIM	Total/NA
Benzo[k]fluoranthene	230		49		ug/Kg	10		8270C SIM	Total/NA
Chrysene	480		49		ug/Kg	10		8270C SIM	Total/NA
Dibenz(a,h)anthracene	71		49		ug/Kg	10		8270C SIM	Total/NA
Fluoranthene	900		49		ug/Kg	10		8270C SIM	Total/NA
Fluorene	62		49		ug/Kg	10		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	200		49		ug/Kg	10		8270C SIM	Total/NA
Phenanthrene	260		49		ug/Kg	10		8270C SIM	Total/NA
Pyrene	820		49		ug/Kg	10		8270C SIM	Total/NA
Diesel Range Organics [C10-C28]	54		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	150		50		mg/Kg	1		8015B	Silica Gel Cleanup
Chromium	65		1.9		mg/Kg	4		6010B	Total/NA
Nickel	78		1.9		mg/Kg	4		6010B	Total/NA
Lead	20		1.9		mg/Kg	4		6010B	Total/NA
Zinc	81		5.8		mg/Kg	4		6010B	Total/NA

Client Sample ID: TS3-S6(1.5) — Lab Sample ID: 720-54435-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	92		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	620		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: 2-OWS-COMP — Lab Sample ID: 720-54435-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butylbenzene	25		22		ug/Kg	1		8260B	Total/NA
1,3,5-Trimethylbenzene	59		22		ug/Kg	1		8260B	Total/NA
Gasoline Range Organics (GRO) -C5-C12	5100		1100		ug/Kg	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	840		9.9		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1400		500		mg/Kg	10		8015B	Silica Gel Cleanup
Antimony	0.82		0.43		mg/Kg	1		6010B	Total/NA
Arsenic	3.1		0.87		mg/Kg	1		6010B	Total/NA
Barium	100		0.43		mg/Kg	1		6010B	Total/NA
Cadmium	0.13		0.11		mg/Kg	1		6010B	Total/NA
Chromium	35		0.43		mg/Kg	1		6010B	Total/NA
Cobalt	7.3		0.17		mg/Kg	1		6010B	Total/NA
Copper	17		1.3		mg/Kg	1		6010B	Total/NA
Lead	7.7		0.43		mg/Kg	1		6010B	Total/NA
Molybdenum	0.64		0.43		mg/Kg	1		6010B	Total/NA
Nickel	53		0.43		mg/Kg	1		6010B	Total/NA
Vanadium	20		0.43		mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: 2-OWS-COMP (Continued)

Lab Sample ID: 720-54435-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	35		1.3		mg/Kg	1		6010B	Total/NA
Mercury	0.018		0.0095		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RL-B1
Date Collected: 12/17/13 11:25
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-1
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 12:07	10
Acenaphthylene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 12:07	10
Anthracene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 12:07	10
Benzo[a]anthracene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 12:07	10
Benzo[a]pyrene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 12:07	10
Benzo[b]fluoranthene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 12:07	10
Benzo[g,h,i]perylene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 12:07	10
Benzo[k]fluoranthene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 12:07	10
Chrysene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 12:07	10
Dibenz(a,h)anthracene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 12:07	10
Fluoranthene	**160**		99		ug/Kg		12/24/13 10:08	12/26/13 12:07	10
Fluorene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 12:07	10
Indeno[1,2,3-cd]pyrene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 12:07	10
Naphthalene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 12:07	10
Phenanthrene	**180**		99		ug/Kg		12/24/13 10:08	12/26/13 12:07	10
Pyrene	**160**		99		ug/Kg		12/24/13 10:08	12/26/13 12:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*98*		*33 - 120*	*12/24/13 10:08*	*12/26/13 12:07*	*10*
Terphenyl-d14	*97*		*35 - 146*	*12/24/13 10:08*	*12/26/13 12:07*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**400**		5.0		mg/Kg		12/23/13 11:22	12/24/13 20:17	5
Motor Oil Range Organics [C24-C36]	**380**		250		mg/Kg		12/23/13 11:22	12/24/13 20:17	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*12/23/13 11:22*	*12/24/13 20:17*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*12/23/13 11:22*	*12/24/13 20:17*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/23/13 19:57	12/23/13 23:55	1
PCB-1221	ND		49		ug/Kg		12/23/13 19:57	12/23/13 23:55	1
PCB-1232	ND		49		ug/Kg		12/23/13 19:57	12/23/13 23:55	1
PCB-1242	ND		49		ug/Kg		12/23/13 19:57	12/23/13 23:55	1
PCB-1248	ND		49		ug/Kg		12/23/13 19:57	12/23/13 23:55	1
PCB-1254	ND		49		ug/Kg		12/23/13 19:57	12/23/13 23:55	1
PCB-1260	ND		49		ug/Kg		12/23/13 19:57	12/23/13 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*45 - 132*	*12/23/13 19:57*	*12/23/13 23:55*	*1*
DCB Decachlorobiphenyl	*75*		*42 - 146*	*12/23/13 19:57*	*12/23/13 23:55*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.12		mg/Kg		12/17/13 21:42	12/21/13 21:22	1
Chromium	**52**		2.0		mg/Kg		12/17/13 21:42	12/18/13 18:45	4
Nickel	**70**		2.0		mg/Kg		12/17/13 21:42	12/18/13 18:45	4
Lead	**20**		2.0		mg/Kg		12/17/13 21:42	12/18/13 18:45	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: RL-B1
Date Collected: 12/17/13 11:25
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-1
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	55		5.9		mg/Kg		12/17/13 21:42	12/18/13 18:45	4

Client Sample ID: RL-B2
Date Collected: 12/17/13 11:30
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-2
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**550**		100		ug/Kg		12/24/13 10:08	12/26/13 12:30	10
Acenaphthylene	ND		100		ug/Kg		12/24/13 10:08	12/26/13 12:30	10
Anthracene	**1100**		100		ug/Kg		12/24/13 10:08	12/26/13 12:30	10
Benzo[a]anthracene	**2100**		100		ug/Kg		12/24/13 10:08	12/26/13 12:30	10
Benzo[a]pyrene	**1300**		100		ug/Kg		12/24/13 10:08	12/26/13 12:30	10
Benzo[b]fluoranthene	**1800**		100		ug/Kg		12/24/13 10:08	12/26/13 12:30	10
Benzo[g,h,i]perylene	**470**		100		ug/Kg		12/24/13 10:08	12/26/13 12:30	10
Benzo[k]fluoranthene	**660**		100		ug/Kg		12/24/13 10:08	12/26/13 12:30	10
Chrysene	**2200**		100		ug/Kg		12/24/13 10:08	12/26/13 12:30	10
Dibenz(a,h)anthracene	**190**		100		ug/Kg		12/24/13 10:08	12/26/13 12:30	10
Fluoranthene	**4900**		100		ug/Kg		12/24/13 10:08	12/26/13 12:30	10
Fluorene	**380**		100		ug/Kg		12/24/13 10:08	12/26/13 12:30	10
Indeno[1,2,3-cd]pyrene	**450**		100		ug/Kg		12/24/13 10:08	12/26/13 12:30	10
Naphthalene	ND		100		ug/Kg		12/24/13 10:08	12/26/13 12:30	10
Phenanthrene	**3800**		100		ug/Kg		12/24/13 10:08	12/26/13 12:30	10
Pyrene	**4900**		100		ug/Kg		12/24/13 10:08	12/26/13 12:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*33 - 120*	*12/24/13 10:08*	*12/26/13 12:30*	*10*
Terphenyl-d14	*102*		*35 - 146*	*12/24/13 10:08*	*12/26/13 12:30*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**670**		5.0		mg/Kg		12/24/13 10:41	12/26/13 23:52	5
Motor Oil Range Organics [C24-C36]	**720**		250		mg/Kg		12/24/13 10:41	12/26/13 23:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*12/24/13 10:41*	*12/26/13 23:52*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*12/24/13 10:41*	*12/26/13 23:52*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:47	1
PCB-1221	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:47	1
PCB-1232	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:47	1
PCB-1242	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:47	1
PCB-1248	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:47	1
PCB-1254	**210**		49		ug/Kg		12/24/13 10:39	12/26/13 09:47	1
PCB-1260	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*45 - 132*	*12/24/13 10:39*	*12/26/13 09:47*	*1*
DCB Decachlorobiphenyl	*67*		*42 - 146*	*12/24/13 10:39*	*12/26/13 09:47*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.12		mg/Kg		12/17/13 21:42	12/21/13 21:27	1
Chromium	**54**		2.0		mg/Kg		12/17/13 21:42	12/18/13 19:02	4
Nickel	**68**		2.0		mg/Kg		12/17/13 21:42	12/18/13 19:02	4
Lead	**34**		2.0		mg/Kg		12/17/13 21:42	12/18/13 19:02	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: RL-B2
Date Collected: 12/17/13 11:30
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-2
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	55		5.9		mg/Kg		12/17/13 21:42	12/18/13 19:02	4

Client Sample ID: RL-B3
Date Collected: 12/17/13 11:35
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-3
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**1500**		500		ug/Kg		12/24/13 10:08	12/26/13 19:49	50
Acenaphthylene	ND		500		ug/Kg		12/24/13 10:08	12/26/13 19:49	50
Anthracene	**4400**		500		ug/Kg		12/24/13 10:08	12/26/13 19:49	50
Benzo[a]anthracene	**9300**		500		ug/Kg		12/24/13 10:08	12/26/13 19:49	50
Benzo[a]pyrene	**6200**		500		ug/Kg		12/24/13 10:08	12/26/13 19:49	50
Benzo[b]fluoranthene	**8800**		500		ug/Kg		12/24/13 10:08	12/26/13 19:49	50
Benzo[g,h,i]perylene	**1300**		500		ug/Kg		12/24/13 10:08	12/26/13 19:49	50
Benzo[k]fluoranthene	**4200**		500		ug/Kg		12/24/13 10:08	12/26/13 19:49	50
Chrysene	**10000**		500		ug/Kg		12/24/13 10:08	12/26/13 19:49	50
Dibenz(a,h)anthracene	**600**		500		ug/Kg		12/24/13 10:08	12/26/13 19:49	50
Fluoranthene	**22000**		500		ug/Kg		12/24/13 10:08	12/26/13 19:49	50
Fluorene	**970**		500		ug/Kg		12/24/13 10:08	12/26/13 19:49	50
Indeno[1,2,3-cd]pyrene	**1400**		500		ug/Kg		12/24/13 10:08	12/26/13 19:49	50
Naphthalene	ND		500		ug/Kg		12/24/13 10:08	12/26/13 19:49	50
Phenanthrene	**14000**		500		ug/Kg		12/24/13 10:08	12/26/13 19:49	50
Pyrene	**22000**		500		ug/Kg		12/24/13 10:08	12/26/13 19:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*33 - 120*	*12/24/13 10:08*	*12/26/13 19:49*	*50*
Terphenyl-d14	*103*		*35 - 146*	*12/24/13 10:08*	*12/26/13 19:49*	*50*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**590**		4.9		mg/Kg		12/24/13 10:41	12/26/13 19:18	5
Motor Oil Range Organics [C24-C36]	**910**		250		mg/Kg		12/24/13 10:41	12/26/13 19:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*12/24/13 10:41*	*12/26/13 19:18*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*12/24/13 10:41*	*12/26/13 19:18*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		490		ug/Kg		12/24/13 10:39	12/26/13 12:17	10
PCB-1221	ND		490		ug/Kg		12/24/13 10:39	12/26/13 12:17	10
PCB-1232	ND		490		ug/Kg		12/24/13 10:39	12/26/13 12:17	10
PCB-1242	ND		490		ug/Kg		12/24/13 10:39	12/26/13 12:17	10
PCB-1248	ND		490		ug/Kg		12/24/13 10:39	12/26/13 12:17	10
PCB-1254	**2000**		490		ug/Kg		12/24/13 10:39	12/26/13 12:17	10
PCB-1260	ND		490		ug/Kg		12/24/13 10:39	12/26/13 12:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X D*	*45 - 132*	*12/24/13 10:39*	*12/26/13 12:17*	*10*
DCB Decachlorobiphenyl	*0*	*X D*	*42 - 146*	*12/24/13 10:39*	*12/26/13 12:17*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.11		mg/Kg		12/17/13 21:42	12/21/13 21:31	1
Chromium	**40**		1.8		mg/Kg		12/17/13 21:42	12/18/13 19:15	4
Nickel	**58**		1.8		mg/Kg		12/17/13 21:42	12/18/13 19:15	4
Lead	**24**		1.8		mg/Kg		12/17/13 21:42	12/18/13 19:15	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: RL-B3
Date Collected: 12/17/13 11:35
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-3
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	63		5.5		mg/Kg		12/17/13 21:42	12/18/13 19:15	4

Client Sample ID: RL-B4
Date Collected: 12/17/13 11:40
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-4
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		49		ug/Kg		12/24/13 10:08	12/26/13 19:26	5
Acenaphthylene	ND		49		ug/Kg		12/24/13 10:08	12/26/13 19:26	5
Anthracene	ND		49		ug/Kg		12/24/13 10:08	12/26/13 19:26	5
Benzo[a]anthracene	ND		49		ug/Kg		12/24/13 10:08	12/26/13 19:26	5
Benzo[a]pyrene	ND		49		ug/Kg		12/24/13 10:08	12/26/13 19:26	5
Benzo[b]fluoranthene	ND		49		ug/Kg		12/24/13 10:08	12/26/13 19:26	5
Benzo[g,h,i]perylene	ND		49		ug/Kg		12/24/13 10:08	12/26/13 19:26	5
Benzo[k]fluoranthene	ND		49		ug/Kg		12/24/13 10:08	12/26/13 19:26	5
Chrysene	ND		49		ug/Kg		12/24/13 10:08	12/26/13 19:26	5
Dibenz(a,h)anthracene	ND		49		ug/Kg		12/24/13 10:08	12/26/13 19:26	5
Fluoranthene	ND		49		ug/Kg		12/24/13 10:08	12/26/13 19:26	5
Fluorene	ND		49		ug/Kg		12/24/13 10:08	12/26/13 19:26	5
Indeno[1,2,3-cd]pyrene	ND		49		ug/Kg		12/24/13 10:08	12/26/13 19:26	5
Naphthalene	ND		49		ug/Kg		12/24/13 10:08	12/26/13 19:26	5
Phenanthrene	ND		49		ug/Kg		12/24/13 10:08	12/26/13 19:26	5
Pyrene	ND		49		ug/Kg		12/24/13 10:08	12/26/13 19:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*33 - 120*	*12/24/13 10:08*	*12/26/13 19:26*	*5*
Terphenyl-d14	*100*		*35 - 146*	*12/24/13 10:08*	*12/26/13 19:26*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**230**		3.0		mg/Kg		12/24/13 10:41	12/26/13 14:25	3
Motor Oil Range Organics [C24-C36]	**520**		150		mg/Kg		12/24/13 10:41	12/26/13 14:25	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*2*	*X*	*0 - 1*	*12/24/13 10:41*	*12/26/13 14:25*	*3*
p-Terphenyl	*136*		*38 - 148*	*12/24/13 10:41*	*12/26/13 14:25*	*3*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:21	1
PCB-1221	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:21	1
PCB-1232	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:21	1
PCB-1242	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:21	1
PCB-1248	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:21	1
PCB-1254	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:21	1
PCB-1260	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*45 - 132*	*12/24/13 10:39*	*12/26/13 10:21*	*1*
DCB Decachlorobiphenyl	*74*		*42 - 146*	*12/24/13 10:39*	*12/26/13 10:21*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.19**		0.11		mg/Kg		12/17/13 21:42	12/21/13 21:35	1
Chromium	**51**		1.8		mg/Kg		12/17/13 21:42	12/18/13 19:19	4
Nickel	**69**		1.8		mg/Kg		12/17/13 21:42	12/18/13 19:19	4
Lead	**35**		1.8		mg/Kg		12/17/13 21:42	12/18/13 19:19	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: RL-B4
Date Collected: 12/17/13 11:40
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-4
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	84		5.4		mg/Kg		12/17/13 21:42	12/18/13 19:19	4

Client Sample ID: RL-B5
Date Collected: 12/17/13 11:45
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-5
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		100		ug/Kg		12/24/13 10:08	12/26/13 13:40	10
Acenaphthylene	ND		100		ug/Kg		12/24/13 10:08	12/26/13 13:40	10
Anthracene	**160**		100		ug/Kg		12/24/13 10:08	12/26/13 13:40	10
Benzo[a]anthracene	**100**		100		ug/Kg		12/24/13 10:08	12/26/13 13:40	10
Benzo[a]pyrene	ND		100		ug/Kg		12/24/13 10:08	12/26/13 13:40	10
Benzo[b]fluoranthene	**110**		100		ug/Kg		12/24/13 10:08	12/26/13 13:40	10
Benzo[g,h,i]perylene	ND		100		ug/Kg		12/24/13 10:08	12/26/13 13:40	10
Benzo[k]fluoranthene	ND		100		ug/Kg		12/24/13 10:08	12/26/13 13:40	10
Chrysene	**140**		100		ug/Kg		12/24/13 10:08	12/26/13 13:40	10
Dibenz(a,h)anthracene	ND		100		ug/Kg		12/24/13 10:08	12/26/13 13:40	10
Fluoranthene	**360**		100		ug/Kg		12/24/13 10:08	12/26/13 13:40	10
Fluorene	ND		100		ug/Kg		12/24/13 10:08	12/26/13 13:40	10
Indeno[1,2,3-cd]pyrene	ND		100		ug/Kg		12/24/13 10:08	12/26/13 13:40	10
Naphthalene	ND		100		ug/Kg		12/24/13 10:08	12/26/13 13:40	10
Phenanthrene	**460**		100		ug/Kg		12/24/13 10:08	12/26/13 13:40	10
Pyrene	**290**		100		ug/Kg		12/24/13 10:08	12/26/13 13:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*33 - 120*	*12/24/13 10:08*	*12/26/13 13:40*	*10*
Terphenyl-d14	*97*		*35 - 146*	*12/24/13 10:08*	*12/26/13 13:40*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**160**		5.0		mg/Kg		12/24/13 10:41	12/26/13 23:28	5
Motor Oil Range Organics [C24-C36]	**480**		250		mg/Kg		12/24/13 10:41	12/26/13 23:28	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*12/24/13 10:41*	*12/26/13 23:28*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*12/24/13 10:41*	*12/26/13 23:28*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:37	1
PCB-1221	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:37	1
PCB-1232	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:37	1
PCB-1242	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:37	1
PCB-1248	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:37	1
PCB-1254	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:37	1
PCB-1260	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*45 - 132*	*12/24/13 10:39*	*12/26/13 10:37*	*1*
DCB Decachlorobiphenyl	*70*		*42 - 146*	*12/24/13 10:39*	*12/26/13 10:37*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.13**		0.12		mg/Kg		12/17/13 21:42	12/21/13 21:40	1
Chromium	**45**		2.0		mg/Kg		12/17/13 21:42	12/18/13 19:23	4
Nickel	**64**		2.0		mg/Kg		12/17/13 21:42	12/18/13 19:23	4
Lead	**26**		2.0		mg/Kg		12/17/13 21:42	12/18/13 19:23	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: RL-B5
Date Collected: 12/17/13 11:45
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-5
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	130		5.9		mg/Kg		12/17/13 21:42	12/18/13 19:23	4

Client Sample ID: RL-B6
Date Collected: 12/17/13 11:48
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-6
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**270**		100		ug/Kg		12/24/13 10:08	12/26/13 14:03	10
Acenaphthylene	ND		100		ug/Kg		12/24/13 10:08	12/26/13 14:03	10
Anthracene	**390**		100		ug/Kg		12/24/13 10:08	12/26/13 14:03	10
Benzo[a]anthracene	**510**		100		ug/Kg		12/24/13 10:08	12/26/13 14:03	10
Benzo[a]pyrene	**270**		100		ug/Kg		12/24/13 10:08	12/26/13 14:03	10
Benzo[b]fluoranthene	**440**		100		ug/Kg		12/24/13 10:08	12/26/13 14:03	10
Benzo[g,h,i]perylene	**110**		100		ug/Kg		12/24/13 10:08	12/26/13 14:03	10
Benzo[k]fluoranthene	**170**		100		ug/Kg		12/24/13 10:08	12/26/13 14:03	10
Chrysene	**560**		100		ug/Kg		12/24/13 10:08	12/26/13 14:03	10
Dibenz(a,h)anthracene	ND		100		ug/Kg		12/24/13 10:08	12/26/13 14:03	10
Fluoranthene	**1900**		100		ug/Kg		12/24/13 10:08	12/26/13 14:03	10
Fluorene	**230**		100		ug/Kg		12/24/13 10:08	12/26/13 14:03	10
Indeno[1,2,3-cd]pyrene	ND		100		ug/Kg		12/24/13 10:08	12/26/13 14:03	10
Naphthalene	ND		100		ug/Kg		12/24/13 10:08	12/26/13 14:03	10
Phenanthrene	**2200**		100		ug/Kg		12/24/13 10:08	12/26/13 14:03	10
Pyrene	**1600**		100		ug/Kg		12/24/13 10:08	12/26/13 14:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*33 - 120*	*12/24/13 10:08*	*12/26/13 14:03*	*10*
Terphenyl-d14	*100*		*35 - 146*	*12/24/13 10:08*	*12/26/13 14:03*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**140**		3.0		mg/Kg		12/24/13 10:41	12/26/13 21:49	3
Motor Oil Range Organics [C24-C36]	**340**		150		mg/Kg		12/24/13 10:41	12/26/13 21:49	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.3*		*0 - 1*	*12/24/13 10:41*	*12/26/13 21:49*	*3*
p-Terphenyl	*87*		*38 - 148*	*12/24/13 10:41*	*12/26/13 21:49*	*3*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:54	1
PCB-1221	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:54	1
PCB-1232	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:54	1
PCB-1242	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:54	1
PCB-1248	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:54	1
PCB-1254	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:54	1
PCB-1260	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*45 - 132*	*12/24/13 10:39*	*12/26/13 10:54*	*1*
DCB Decachlorobiphenyl	*68*		*42 - 146*	*12/24/13 10:39*	*12/26/13 10:54*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.11		mg/Kg		12/17/13 21:42	12/21/13 21:44	1
Chromium	**60**		1.8		mg/Kg		12/17/13 21:42	12/18/13 19:28	4
Nickel	**73**		1.8		mg/Kg		12/17/13 21:42	12/18/13 19:28	4
Lead	**19**		1.8		mg/Kg		12/17/13 21:42	12/18/13 19:28	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: RL-B6
Date Collected: 12/17/13 11:48
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-6
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	89		5.5		mg/Kg		12/17/13 21:42	12/18/13 19:28	4

Client Sample ID: RL-B7
Date Collected: 12/17/13 11:51
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-7
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 14:26	10
Acenaphthylene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 14:26	10
Anthracene	**120**		99		ug/Kg		12/24/13 10:08	12/26/13 14:26	10
Benzo[a]anthracene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 14:26	10
Benzo[a]pyrene	**100**		99		ug/Kg		12/24/13 10:08	12/26/13 14:26	10
Benzo[b]fluoranthene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 14:26	10
Benzo[g,h,i]perylene	**160**		99		ug/Kg		12/24/13 10:08	12/26/13 14:26	10
Benzo[k]fluoranthene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 14:26	10
Chrysene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 14:26	10
Dibenz(a,h)anthracene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 14:26	10
Fluoranthene	**160**		99		ug/Kg		12/24/13 10:08	12/26/13 14:26	10
Fluorene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 14:26	10
Indeno[1,2,3-cd]pyrene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 14:26	10
Naphthalene	ND		99		ug/Kg		12/24/13 10:08	12/26/13 14:26	10
Phenanthrene	**200**		99		ug/Kg		12/24/13 10:08	12/26/13 14:26	10
Pyrene	**150**		99		ug/Kg		12/24/13 10:08	12/26/13 14:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*33 - 120*	*12/24/13 10:08*	*12/26/13 14:26*	*10*
Terphenyl-d14	*104*		*35 - 146*	*12/24/13 10:08*	*12/26/13 14:26*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**260**		3.0		mg/Kg		12/24/13 10:41	12/26/13 22:14	3
Motor Oil Range Organics [C24-C36]	**430**		150		mg/Kg		12/24/13 10:41	12/26/13 22:14	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.2*		*0 - 1*	*12/24/13 10:41*	*12/26/13 22:14*	*3*
p-Terphenyl	*89*		*38 - 148*	*12/24/13 10:41*	*12/26/13 22:14*	*3*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:11	1
PCB-1221	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:11	1
PCB-1232	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:11	1
PCB-1242	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:11	1
PCB-1248	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:11	1
PCB-1254	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:11	1
PCB-1260	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*45 - 132*	*12/24/13 10:39*	*12/26/13 11:11*	*1*
DCB Decachlorobiphenyl	*77*		*42 - 146*	*12/24/13 10:39*	*12/26/13 11:11*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**0.12**		0.11		mg/Kg		12/17/13 21:42	12/21/13 21:48	1
Chromium	**31**		1.7		mg/Kg		12/17/13 21:42	12/18/13 19:32	4
Nickel	**45**		1.7		mg/Kg		12/17/13 21:42	12/18/13 19:32	4
Lead	**12**		1.7		mg/Kg		12/17/13 21:42	12/18/13 19:32	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: RL-B7
Date Collected: 12/17/13 11:51
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-7
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	36		5.2		mg/Kg		12/17/13 21:42	12/18/13 19:32	4

Client Sample ID: RL-B8
Date Collected: 12/17/13 11:55
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-8
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**89**		50		ug/Kg		12/24/13 10:08	12/26/13 14:49	5
Acenaphthylene	ND		50		ug/Kg		12/24/13 10:08	12/26/13 14:49	5
Anthracene	**180**		50		ug/Kg		12/24/13 10:08	12/26/13 14:49	5
Benzo[a]anthracene	**220**		50		ug/Kg		12/24/13 10:08	12/26/13 14:49	5
Benzo[a]pyrene	**150**		50		ug/Kg		12/24/13 10:08	12/26/13 14:49	5
Benzo[b]fluoranthene	**240**		50		ug/Kg		12/24/13 10:08	12/26/13 14:49	5
Benzo[g,h,i]perylene	**74**		50		ug/Kg		12/24/13 10:08	12/26/13 14:49	5
Benzo[k]fluoranthene	**90**		50		ug/Kg		12/24/13 10:08	12/26/13 14:49	5
Chrysene	**240**		50		ug/Kg		12/24/13 10:08	12/26/13 14:49	5
Dibenz(a,h)anthracene	ND		50		ug/Kg		12/24/13 10:08	12/26/13 14:49	5
Fluoranthene	**650**		50		ug/Kg		12/24/13 10:08	12/26/13 14:49	5
Fluorene	**67**		50		ug/Kg		12/24/13 10:08	12/26/13 14:49	5
Indeno[1,2,3-cd]pyrene	**56**		50		ug/Kg		12/24/13 10:08	12/26/13 14:49	5
Naphthalene	ND		50		ug/Kg		12/24/13 10:08	12/26/13 14:49	5
Phenanthrene	**580**		50		ug/Kg		12/24/13 10:08	12/26/13 14:49	5
Pyrene	**570**		50		ug/Kg		12/24/13 10:08	12/26/13 14:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*33 - 120*	*12/24/13 10:08*	*12/26/13 14:49*	*5*
Terphenyl-d14	*101*		*35 - 146*	*12/24/13 10:08*	*12/26/13 14:49*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**110**		0.99		mg/Kg		12/24/13 10:41	12/27/13 01:36	1
Motor Oil Range Organics [C24-C36]	**190**		50		mg/Kg		12/24/13 10:41	12/27/13 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.9*		*0 - 1*	*12/24/13 10:41*	*12/27/13 01:36*	*1*
p-Terphenyl	*76*		*38 - 148*	*12/24/13 10:41*	*12/27/13 01:36*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:27	1
PCB-1221	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:27	1
PCB-1232	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:27	1
PCB-1242	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:27	1
PCB-1248	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:27	1
PCB-1254	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:27	1
PCB-1260	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*45 - 132*	*12/24/13 10:39*	*12/26/13 11:27*	*1*
DCB Decachlorobiphenyl	*120*		*42 - 146*	*12/24/13 10:39*	*12/26/13 11:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.12		mg/Kg		12/17/13 21:42	12/21/13 21:53	1
Chromium	**50**		1.9		mg/Kg		12/17/13 21:42	12/18/13 19:37	4
Nickel	**64**		1.9		mg/Kg		12/17/13 21:42	12/18/13 19:37	4
Lead	**13**		1.9		mg/Kg		12/17/13 21:42	12/18/13 19:37	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: RL-B8
Date Collected: 12/17/13 11:55
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-8
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	56		5.6		mg/Kg		12/17/13 21:42	12/18/13 19:37	4

Client Sample ID: RL-B9
Date Collected: 12/17/13 12:00
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-9
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**150**		9.9		ug/Kg		12/17/13 21:51	12/18/13 16:37	2
Acenaphthylene	ND		9.9		ug/Kg		12/17/13 21:51	12/18/13 16:37	2
Anthracene	**140**		9.9		ug/Kg		12/17/13 21:51	12/18/13 16:37	2
Benzo[a]anthracene	**130**		9.9		ug/Kg		12/17/13 21:51	12/18/13 16:37	2
Benzo[a]pyrene	**64**		9.9		ug/Kg		12/17/13 21:51	12/18/13 16:37	2
Benzo[b]fluoranthene	**120**		9.9		ug/Kg		12/17/13 21:51	12/18/13 16:37	2
Benzo[g,h,i]perylene	**25**		9.9		ug/Kg		12/17/13 21:51	12/18/13 16:37	2
Benzo[k]fluoranthene	**45**		9.9		ug/Kg		12/17/13 21:51	12/18/13 16:37	2
Chrysene	**140**		9.9		ug/Kg		12/17/13 21:51	12/18/13 16:37	2
Dibenz(a,h)anthracene	ND		9.9		ug/Kg		12/17/13 21:51	12/18/13 16:37	2
Fluoranthene	**500**		9.9		ug/Kg		12/17/13 21:51	12/18/13 16:37	2
Fluorene	**120**		9.9		ug/Kg		12/17/13 21:51	12/18/13 16:37	2
Indeno[1,2,3-cd]pyrene	**20**		9.9		ug/Kg		12/17/13 21:51	12/18/13 16:37	2
Naphthalene	**28**		9.9		ug/Kg		12/17/13 21:51	12/18/13 16:37	2
Phenanthrene	**690**		9.9		ug/Kg		12/17/13 21:51	12/18/13 16:37	2
Pyrene	**390**		9.9		ug/Kg		12/17/13 21:51	12/18/13 16:37	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*33 - 120*	*12/17/13 21:51*	*12/18/13 16:37*	*2*
Terphenyl-d14	*84*		*35 - 146*	*12/17/13 21:51*	*12/18/13 16:37*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**130**		3.0		mg/Kg		12/24/13 10:41	12/27/13 12:21	3
Motor Oil Range Organics [C24-C36]	**220**		150		mg/Kg		12/24/13 10:41	12/27/13 12:21	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.03*		*0 - 1*	*12/24/13 10:41*	*12/27/13 12:21*	*3*
p-Terphenyl	*79*		*38 - 148*	*12/24/13 10:41*	*12/27/13 12:21*	*3*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:31	1
PCB-1221	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:31	1
PCB-1232	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:31	1
PCB-1242	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:31	1
PCB-1248	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:31	1
PCB-1254	**110**		49		ug/Kg		12/24/13 10:39	12/26/13 09:31	1
PCB-1260	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*45 - 132*	*12/24/13 10:39*	*12/26/13 09:31*	*1*
DCB Decachlorobiphenyl	*104*		*42 - 146*	*12/24/13 10:39*	*12/26/13 09:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.11		mg/Kg		12/17/13 21:42	12/21/13 22:06	1
Chromium	**55**		1.8		mg/Kg		12/17/13 21:42	12/18/13 19:41	4
Nickel	**71**		1.8		mg/Kg		12/17/13 21:42	12/18/13 19:41	4
Lead	**13**		1.8		mg/Kg		12/17/13 21:42	12/18/13 19:41	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: RL-B9
Date Collected: 12/17/13 12:00
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-9
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	73		5.5		mg/Kg		12/17/13 21:42	12/18/13 19:41	4

Client Sample ID: RL-B10
Date Collected: 12/17/13 12:03
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-10
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:00	2
Acenaphthylene	ND		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:00	2
Anthracene	**47**		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:00	2
Benzo[a]anthracene	**41**		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:00	2
Benzo[a]pyrene	**79**		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:00	2
Benzo[b]fluoranthene	**150**		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:00	2
Benzo[g,h,i]perylene	**96**		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:00	2
Benzo[k]fluoranthene	**55**		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:00	2
Chrysene	**64**		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:00	2
Dibenz(a,h)anthracene	**18**		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:00	2
Fluoranthene	**76**		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:00	2
Fluorene	ND		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:00	2
Indeno[1,2,3-cd]pyrene	**53**		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:00	2
Naphthalene	ND		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:00	2
Phenanthrene	**51**		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:00	2
Pyrene	**86**		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:00	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*33 - 120*	*12/17/13 21:51*	*12/18/13 17:00*	*2*
Terphenyl-d14	*79*		*35 - 146*	*12/17/13 21:51*	*12/18/13 17:00*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**110**		1.0		mg/Kg		12/24/13 10:41	12/27/13 02:33	1
Motor Oil Range Organics [C24-C36]	**200**		50		mg/Kg		12/24/13 10:41	12/27/13 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.4*		*0 - 1*	*12/24/13 10:41*	*12/27/13 02:33*	*1*
p-Terphenyl	*66*		*38 - 148*	*12/24/13 10:41*	*12/27/13 02:33*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:47	1
PCB-1221	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:47	1
PCB-1232	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:47	1
PCB-1242	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:47	1
PCB-1248	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:47	1
PCB-1254	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:47	1
PCB-1260	ND		49		ug/Kg		12/24/13 10:39	12/26/13 09:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*45 - 132*	*12/24/13 10:39*	*12/26/13 09:47*	*1*
DCB Decachlorobiphenyl	*81*		*42 - 146*	*12/24/13 10:39*	*12/26/13 09:47*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.12		mg/Kg		12/17/13 21:42	12/21/13 22:10	1
Chromium	**65**		1.9		mg/Kg		12/17/13 21:42	12/18/13 19:45	4
Nickel	**76**		1.9		mg/Kg		12/17/13 21:42	12/18/13 19:45	4
Lead	**18**		1.9		mg/Kg		12/17/13 21:42	12/18/13 19:45	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: RL-B10
Date Collected: 12/17/13 12:03
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-10
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	58		5.6		mg/Kg		12/17/13 21:42	12/18/13 19:45	4

Client Sample ID: RL-B11
Date Collected: 12/17/13 00:00
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-11
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 16:41	1
Acenaphthylene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 16:41	1
Anthracene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 16:41	1
Benzo[a]anthracene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 16:41	1
Benzo[a]pyrene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 16:41	1
Benzo[b]fluoranthene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 16:41	1
Benzo[g,h,i]perylene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 16:41	1
Benzo[k]fluoranthene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 16:41	1
Chrysene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 16:41	1
Dibenz(a,h)anthracene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 16:41	1
Fluoranthene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 16:41	1
Fluorene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 16:41	1
Indeno[1,2,3-cd]pyrene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 16:41	1
Naphthalene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 16:41	1
Phenanthrene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 16:41	1
Pyrene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*33 - 120*	*12/17/13 21:51*	*12/18/13 16:41*	*1*
Terphenyl-d14	*79*		*35 - 146*	*12/17/13 21:51*	*12/18/13 16:41*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98		mg/Kg		12/24/13 10:41	12/26/13 16:22	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		12/24/13 10:41	12/26/13 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*12/24/13 10:41*	*12/26/13 16:22*	*1*
p-Terphenyl	*85*		*38 - 148*	*12/24/13 10:41*	*12/26/13 16:22*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:04	1
PCB-1221	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:04	1
PCB-1232	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:04	1
PCB-1242	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:04	1
PCB-1248	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:04	1
PCB-1254	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:04	1
PCB-1260	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*45 - 132*	*12/24/13 10:39*	*12/26/13 10:04*	*1*
DCB Decachlorobiphenyl	*94*		*42 - 146*	*12/24/13 10:39*	*12/26/13 10:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.12		mg/Kg		12/17/13 21:42	12/21/13 22:14	1
Chromium	**82**		2.0		mg/Kg		12/17/13 21:42	12/18/13 19:50	4
Nickel	**110**		2.0		mg/Kg		12/17/13 21:42	12/18/13 19:50	4
Lead	**9.5**		2.0		mg/Kg		12/17/13 21:42	12/18/13 19:50	4
Zinc	**62**		5.9		mg/Kg		12/17/13 21:42	12/18/13 19:50	4

Client Sample ID: RL-B12
Date Collected: 12/17/13 00:00
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-12
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	350		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:02	1
Acenaphthylene	20		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:02	1
Anthracene	230		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:02	1
Benzo[a]anthracene	360		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:02	1
Benzo[a]pyrene	190		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:02	1
Benzo[b]fluoranthene	260		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:02	1
Benzo[g,h,i]perylene	190		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:02	1
Benzo[k]fluoranthene	210		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:02	1
Chrysene	360		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:02	1
Dibenz(a,h)anthracene	50		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:02	1
Fluoranthene	1200		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:02	1
Fluorene	130		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:02	1
Indeno[1,2,3-cd]pyrene	120		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:02	1
Naphthalene	59		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:02	1
Phenanthrene	580		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:02	1
Pyrene	1200		9.9		ug/Kg		12/17/13 21:51	12/18/13 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*33 - 120*	*12/17/13 21:51*	*12/18/13 17:02*	*1*
Terphenyl-d14	*86*		*35 - 146*	*12/17/13 21:51*	*12/18/13 17:02*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	85		1.0		mg/Kg		12/24/13 10:41	12/26/13 17:21	1
Motor Oil Range Organics [C24-C36]	180		50		mg/Kg		12/24/13 10:41	12/26/13 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*2*	*X*	*0 - 1*	*12/24/13 10:41*	*12/26/13 17:21*	*1*
p-Terphenyl	*54*		*38 - 148*	*12/24/13 10:41*	*12/26/13 17:21*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:21	1
PCB-1221	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:21	1
PCB-1232	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:21	1
PCB-1242	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:21	1
PCB-1248	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:21	1
PCB-1254	ND		49		ug/Kg		12/24/13 10:39	12/26/13 10:21	1
PCB-1260	68		49		ug/Kg		12/24/13 10:39	12/26/13 10:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*45 - 132*	*12/24/13 10:39*	*12/26/13 10:21*	*1*
DCB Decachlorobiphenyl	*80*		*42 - 146*	*12/24/13 10:39*	*12/26/13 10:21*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.10		mg/Kg		12/17/13 21:42	12/21/13 22:18	1
Chromium	43		1.6		mg/Kg		12/17/13 21:42	12/18/13 19:54	4
Nickel	59		1.6		mg/Kg		12/17/13 21:42	12/18/13 19:54	4
Lead	9.5		1.6		mg/Kg		12/17/13 21:42	12/18/13 19:54	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: RL-B12
Date Collected: 12/17/13 00:00
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-12
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	46		4.9		mg/Kg		12/17/13 21:42	12/18/13 19:54	4

Client Sample ID: RL-B13
Date Collected: 12/17/13 00:00
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-13
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		49		ug/Kg		12/17/13 21:51	12/18/13 17:43	10
Acenaphthylene	ND		49		ug/Kg		12/17/13 21:51	12/18/13 17:43	10
Anthracene	**54**		49		ug/Kg		12/17/13 21:51	12/18/13 17:43	10
Benzo[a]anthracene	**110**		49		ug/Kg		12/17/13 21:51	12/18/13 17:43	10
Benzo[a]pyrene	**75**		49		ug/Kg		12/17/13 21:51	12/18/13 17:43	10
Benzo[b]fluoranthene	**68**		49		ug/Kg		12/17/13 21:51	12/18/13 17:43	10
Benzo[g,h,i]perylene	**60**		49		ug/Kg		12/17/13 21:51	12/18/13 17:43	10
Benzo[k]fluoranthene	**58**		49		ug/Kg		12/17/13 21:51	12/18/13 17:43	10
Chrysene	**120**		49		ug/Kg		12/17/13 21:51	12/18/13 17:43	10
Dibenz(a,h)anthracene	ND		49		ug/Kg		12/17/13 21:51	12/18/13 17:43	10
Fluoranthene	**280**		49		ug/Kg		12/17/13 21:51	12/18/13 17:43	10
Fluorene	ND		49		ug/Kg		12/17/13 21:51	12/18/13 17:43	10
Indeno[1,2,3-cd]pyrene	ND		49		ug/Kg		12/17/13 21:51	12/18/13 17:43	10
Naphthalene	ND		49		ug/Kg		12/17/13 21:51	12/18/13 17:43	10
Phenanthrene	**170**		49		ug/Kg		12/17/13 21:51	12/18/13 17:43	10
Pyrene	**300**		49		ug/Kg		12/17/13 21:51	12/18/13 17:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*33 - 120*	*12/17/13 21:51*	*12/18/13 17:43*	*10*
Terphenyl-d14	*83*		*35 - 146*	*12/17/13 21:51*	*12/18/13 17:43*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**83**		3.0		mg/Kg		12/24/13 10:41	12/26/13 22:38	3
Motor Oil Range Organics [C24-C36]	**360**		150		mg/Kg		12/24/13 10:41	12/26/13 22:38	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*12/24/13 10:41*	*12/26/13 22:38*	*3*
p-Terphenyl	*71*		*38 - 148*	*12/24/13 10:41*	*12/26/13 22:38*	*3*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:37	1
PCB-1221	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:37	1
PCB-1232	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:37	1
PCB-1242	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:37	1
PCB-1248	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:37	1
PCB-1254	**74**		50		ug/Kg		12/24/13 10:39	12/26/13 10:37	1
PCB-1260	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*45 - 132*	*12/24/13 10:39*	*12/26/13 10:37*	*1*
DCB Decachlorobiphenyl	*76*		*42 - 146*	*12/24/13 10:39*	*12/26/13 10:37*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.12		mg/Kg		12/17/13 21:42	12/21/13 22:23	1
Chromium	**51**		1.9		mg/Kg		12/17/13 21:42	12/18/13 20:07	4
Nickel	**64**		1.9		mg/Kg		12/17/13 21:42	12/18/13 20:07	4
Lead	**9.6**		1.9		mg/Kg		12/17/13 21:42	12/18/13 20:07	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: RL-B13
Date Collected: 12/17/13 00:00
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-13
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	150		5.7		mg/Kg		12/17/13 21:42	12/18/13 20:07	4

Client Sample ID: RL-B14
Date Collected: 12/17/13 00:00
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-14
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**78**		25		ug/Kg		12/17/13 21:51	12/27/13 14:59	5
Acenaphthylene	ND		25		ug/Kg		12/17/13 21:51	12/27/13 14:59	5
Anthracene	**130**		25		ug/Kg		12/17/13 21:51	12/27/13 14:59	5
Benzo[a]anthracene	**260**		25		ug/Kg		12/17/13 21:51	12/27/13 14:59	5
Benzo[a]pyrene	**220**		25		ug/Kg		12/17/13 21:51	12/27/13 14:59	5
Benzo[b]fluoranthene	**240**		25		ug/Kg		12/17/13 21:51	12/27/13 14:59	5
Benzo[g,h,i]perylene	**110**		25		ug/Kg		12/17/13 21:51	12/27/13 14:59	5
Benzo[k]fluoranthene	**190**		25		ug/Kg		12/17/13 21:51	12/27/13 14:59	5
Chrysene	**280**		25		ug/Kg		12/17/13 21:51	12/27/13 14:59	5
Dibenz(a,h)anthracene	**61**		25		ug/Kg		12/17/13 21:51	12/27/13 14:59	5
Fluoranthene	**510**		25		ug/Kg		12/17/13 21:51	12/27/13 14:59	5
Fluorene	**64**		25		ug/Kg		12/17/13 21:51	12/27/13 14:59	5
Indeno[1,2,3-cd]pyrene	**100**		25		ug/Kg		12/17/13 21:51	12/27/13 14:59	5
Naphthalene	**28**		25		ug/Kg		12/17/13 21:51	12/27/13 14:59	5
Phenanthrene	**400**		25		ug/Kg		12/17/13 21:51	12/27/13 14:59	5
Pyrene	**540**		25		ug/Kg		12/17/13 21:51	12/27/13 14:59	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*33 - 120*	*12/17/13 21:51*	*12/27/13 14:59*	*5*
Terphenyl-d14	*112*		*35 - 146*	*12/17/13 21:51*	*12/27/13 14:59*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**97**		3.0		mg/Kg		12/24/13 10:41	12/26/13 23:03	3
Motor Oil Range Organics [C24-C36]	**300**		150		mg/Kg		12/24/13 10:41	12/26/13 23:03	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.6*		*0 - 1*	*12/24/13 10:41*	*12/26/13 23:03*	*3*
p-Terphenyl	*66*		*38 - 148*	*12/24/13 10:41*	*12/26/13 23:03*	*3*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:54	1
PCB-1221	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:54	1
PCB-1232	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:54	1
PCB-1242	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:54	1
PCB-1248	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:54	1
PCB-1254	**110**		50		ug/Kg		12/24/13 10:39	12/26/13 10:54	1
PCB-1260	ND		50		ug/Kg		12/24/13 10:39	12/26/13 10:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*45 - 132*	*12/24/13 10:39*	*12/26/13 10:54*	*1*
DCB Decachlorobiphenyl	*79*		*42 - 146*	*12/24/13 10:39*	*12/26/13 10:54*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.11		mg/Kg		12/17/13 21:42	12/21/13 22:27	1
Chromium	**55**		1.8		mg/Kg		12/17/13 21:42	12/18/13 20:11	4
Nickel	**75**		1.8		mg/Kg		12/17/13 21:42	12/18/13 20:11	4
Lead	**10**		1.8		mg/Kg		12/17/13 21:42	12/18/13 20:11	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: RL-B14
Date Collected: 12/17/13 00:00
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-14
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	55		5.3		mg/Kg		12/17/13 21:42	12/18/13 20:11	4

Client Sample ID: RL-B15
Date Collected: 12/17/13 00:00
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-15
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	5.4		4.9		ug/Kg		12/24/13 10:08	12/26/13 15:12	1
Acenaphthylene	8.7		4.9		ug/Kg		12/24/13 10:08	12/26/13 15:12	1
Anthracene	18		4.9		ug/Kg		12/24/13 10:08	12/26/13 15:12	1
Benzo[a]anthracene	6.8		4.9		ug/Kg		12/24/13 10:08	12/26/13 15:12	1
Benzo[a]pyrene	ND		4.9		ug/Kg		12/24/13 10:08	12/26/13 15:12	1
Benzo[b]fluoranthene	10		4.9		ug/Kg		12/24/13 10:08	12/26/13 15:12	1
Benzo[g,h,i]perylene	17		4.9		ug/Kg		12/24/13 10:08	12/26/13 15:12	1
Benzo[k]fluoranthene	ND		4.9		ug/Kg		12/24/13 10:08	12/26/13 15:12	1
Chrysene	7.1		4.9		ug/Kg		12/24/13 10:08	12/26/13 15:12	1
Dibenz(a,h)anthracene	ND		4.9		ug/Kg		12/24/13 10:08	12/26/13 15:12	1
Fluoranthene	19		4.9		ug/Kg		12/24/13 10:08	12/26/13 15:12	1
Fluorene	ND		4.9		ug/Kg		12/24/13 10:08	12/26/13 15:12	1
Indeno[1,2,3-cd]pyrene	8.9		4.9		ug/Kg		12/24/13 10:08	12/26/13 15:12	1
Naphthalene	ND		4.9		ug/Kg		12/24/13 10:08	12/26/13 15:12	1
Phenanthrene	20		4.9		ug/Kg		12/24/13 10:08	12/26/13 15:12	1
Pyrene	14		4.9		ug/Kg		12/24/13 10:08	12/26/13 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*33 - 120*	*12/24/13 10:08*	*12/26/13 15:12*	*1*
Terphenyl-d14	*85*		*35 - 146*	*12/24/13 10:08*	*12/26/13 15:12*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	22		1.0		mg/Kg		12/24/13 10:41	12/26/13 16:22	1
Motor Oil Range Organics [C24-C36]	57		50		mg/Kg		12/24/13 10:41	12/26/13 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.05*		*0 - 1*	*12/24/13 10:41*	*12/26/13 16:22*	*1*
p-Terphenyl	*84*		*38 - 148*	*12/24/13 10:41*	*12/26/13 16:22*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/24/13 10:39	12/26/13 11:11	1
PCB-1221	ND		49		ug/Kg		12/24/13 10:39	12/26/13 11:11	1
PCB-1232	ND		49		ug/Kg		12/24/13 10:39	12/26/13 11:11	1
PCB-1242	ND		49		ug/Kg		12/24/13 10:39	12/26/13 11:11	1
PCB-1248	ND		49		ug/Kg		12/24/13 10:39	12/26/13 11:11	1
PCB-1254	ND		49		ug/Kg		12/24/13 10:39	12/26/13 11:11	1
PCB-1260	ND		49		ug/Kg		12/24/13 10:39	12/26/13 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*45 - 132*	*12/24/13 10:39*	*12/26/13 11:11*	*1*
DCB Decachlorobiphenyl	*86*		*42 - 146*	*12/24/13 10:39*	*12/26/13 11:11*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.11		mg/Kg		12/17/13 21:42	12/21/13 22:31	1
Chromium	74		1.7		mg/Kg		12/17/13 21:42	12/18/13 20:16	4
Nickel	91		1.7		mg/Kg		12/17/13 21:42	12/18/13 20:16	4
Lead	7.8		1.7		mg/Kg		12/17/13 21:42	12/18/13 20:16	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: RL-B15
Date Collected: 12/17/13 00:00
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-15
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	51		5.2		mg/Kg		12/17/13 21:42	12/18/13 20:16	4

Client Sample ID: RL-B16
Date Collected: 12/17/13 00:00
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-16
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110		25		ug/Kg		12/24/13 10:08	12/26/13 15:35	5
Acenaphthylene	ND		25		ug/Kg		12/24/13 10:08	12/26/13 15:35	5
Anthracene	340		25		ug/Kg		12/24/13 10:08	12/26/13 15:35	5
Benzo[a]anthracene	580		25		ug/Kg		12/24/13 10:08	12/26/13 15:35	5
Benzo[a]pyrene	380		25		ug/Kg		12/24/13 10:08	12/26/13 15:35	5
Benzo[b]fluoranthene	520		25		ug/Kg		12/24/13 10:08	12/26/13 15:35	5
Benzo[g,h,i]perylene	120		25		ug/Kg		12/24/13 10:08	12/26/13 15:35	5
Benzo[k]fluoranthene	240		25		ug/Kg		12/24/13 10:08	12/26/13 15:35	5
Chrysene	630		25		ug/Kg		12/24/13 10:08	12/26/13 15:35	5
Dibenz(a,h)anthracene	47		25		ug/Kg		12/24/13 10:08	12/26/13 15:35	5
Fluoranthene	1500		25		ug/Kg		12/24/13 10:08	12/26/13 15:35	5
Fluorene	89		25		ug/Kg		12/24/13 10:08	12/26/13 15:35	5
Indeno[1,2,3-cd]pyrene	120		25		ug/Kg		12/24/13 10:08	12/26/13 15:35	5
Naphthalene	ND		25		ug/Kg		12/24/13 10:08	12/26/13 15:35	5
Phenanthrene	1100		25		ug/Kg		12/24/13 10:08	12/26/13 15:35	5
Pyrene	1400		25		ug/Kg		12/24/13 10:08	12/26/13 15:35	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*33 - 120*	*12/24/13 10:08*	*12/26/13 15:35*	*5*
Terphenyl-d14	*102*		*35 - 146*	*12/24/13 10:08*	*12/26/13 15:35*	*5*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	56		1.0		mg/Kg		12/24/13 10:41	12/26/13 16:52	1
Motor Oil Range Organics [C24-C36]	120		50		mg/Kg		12/24/13 10:41	12/26/13 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.8*		*0 - 1*	*12/24/13 10:41*	*12/26/13 16:52*	*1*
p-Terphenyl	*67*		*38 - 148*	*12/24/13 10:41*	*12/26/13 16:52*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:27	1
PCB-1221	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:27	1
PCB-1232	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:27	1
PCB-1242	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:27	1
PCB-1248	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:27	1
PCB-1254	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:27	1
PCB-1260	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*45 - 132*	*12/24/13 10:39*	*12/26/13 11:27*	*1*
DCB Decachlorobiphenyl	*82*		*42 - 146*	*12/24/13 10:39*	*12/26/13 11:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.12		0.11		mg/Kg		12/17/13 21:42	12/21/13 22:36	1
Chromium	53		1.7		mg/Kg		12/17/13 21:42	12/18/13 20:20	4
Nickel	64		1.7		mg/Kg		12/17/13 21:42	12/18/13 20:20	4
Lead	11		1.7		mg/Kg		12/17/13 21:42	12/18/13 20:20	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: RL-B16
Date Collected: 12/17/13 00:00
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-16
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	86		5.2		mg/Kg		12/17/13 21:42	12/18/13 20:20	4

Client Sample ID: RL-B17
Date Collected: 12/17/13 00:00
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-17
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		49		ug/Kg		12/24/13 10:08	12/26/13 15:58	10
Acenaphthylene	**250**		49		ug/Kg		12/24/13 10:08	12/26/13 15:58	10
Anthracene	**550**		49		ug/Kg		12/24/13 10:08	12/26/13 15:58	10
Benzo[a]anthracene	**310**		49		ug/Kg		12/24/13 10:08	12/26/13 15:58	10
Benzo[a]pyrene	**220**		49		ug/Kg		12/24/13 10:08	12/26/13 15:58	10
Benzo[b]fluoranthene	**640**		49		ug/Kg		12/24/13 10:08	12/26/13 15:58	10
Benzo[g,h,i]perylene	**240**		49		ug/Kg		12/24/13 10:08	12/26/13 15:58	10
Benzo[k]fluoranthene	**230**		49		ug/Kg		12/24/13 10:08	12/26/13 15:58	10
Chrysene	**480**		49		ug/Kg		12/24/13 10:08	12/26/13 15:58	10
Dibenz(a,h)anthracene	**71**		49		ug/Kg		12/24/13 10:08	12/26/13 15:58	10
Fluoranthene	**900**		49		ug/Kg		12/24/13 10:08	12/26/13 15:58	10
Fluorene	**62**		49		ug/Kg		12/24/13 10:08	12/26/13 15:58	10
Indeno[1,2,3-cd]pyrene	**200**		49		ug/Kg		12/24/13 10:08	12/26/13 15:58	10
Naphthalene	ND		49		ug/Kg		12/24/13 10:08	12/26/13 15:58	10
Phenanthrene	**260**		49		ug/Kg		12/24/13 10:08	12/26/13 15:58	10
Pyrene	**820**		49		ug/Kg		12/24/13 10:08	12/26/13 15:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*33 - 120*	*12/24/13 10:08*	*12/26/13 15:58*	*10*
Terphenyl-d14	*100*		*35 - 146*	*12/24/13 10:08*	*12/26/13 15:58*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**54**		1.0		mg/Kg		12/24/13 10:41	12/26/13 21:24	1
Motor Oil Range Organics [C24-C36]	**150**		50		mg/Kg		12/24/13 10:41	12/26/13 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.1*		*0 - 1*	*12/24/13 10:41*	*12/26/13 21:24*	*1*
p-Terphenyl	*62*		*38 - 148*	*12/24/13 10:41*	*12/26/13 21:24*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:44	1
PCB-1221	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:44	1
PCB-1232	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:44	1
PCB-1242	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:44	1
PCB-1248	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:44	1
PCB-1254	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:44	1
PCB-1260	ND		50		ug/Kg		12/24/13 10:39	12/26/13 11:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*45 - 132*	*12/24/13 10:39*	*12/26/13 11:44*	*1*
DCB Decachlorobiphenyl	*82*		*42 - 146*	*12/24/13 10:39*	*12/26/13 11:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.12		mg/Kg		12/17/13 21:42	12/21/13 22:40	1
Chromium	**65**		1.9		mg/Kg		12/17/13 21:42	12/18/13 20:24	4
Nickel	**78**		1.9		mg/Kg		12/17/13 21:42	12/18/13 20:24	4
Lead	**20**		1.9		mg/Kg		12/17/13 21:42	12/18/13 20:24	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: RL-B17
Date Collected: 12/17/13 00:00
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-17
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	81		5.8		mg/Kg		12/17/13 21:42	12/18/13 20:24	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: TS3-S6(1.5)
Date Collected: 12/17/13 00:00
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-18
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	92		5.0		mg/Kg		12/24/13 10:41	12/27/13 00:17	5
Motor Oil Range Organics [C24-C36]	620		250		mg/Kg		12/24/13 10:41	12/27/13 00:17	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*12/24/13 10:41*	*12/27/13 00:17*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*12/24/13 10:41*	*12/27/13 00:17*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: 2-OWS-COMP — **Lab Sample ID: 720-54435-23**
Date Collected: 12/17/13 11:00 — **Matrix: Solid**
Date Received: 12/17/13 14:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Acetone	ND		220		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Benzene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Dichlorobromomethane	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Bromobenzene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Chlorobromomethane	ND		87		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Bromoform	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Bromomethane	ND		43		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
2-Butanone (MEK)	ND		220		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
n-Butylbenzene	**25**		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
sec-Butylbenzene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
tert-Butylbenzene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Carbon disulfide	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Carbon tetrachloride	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Chlorobenzene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Chloroethane	ND		43		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Chloroform	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Chloromethane	ND		43		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
2-Chlorotoluene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
4-Chlorotoluene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Chlorodibromomethane	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,2-Dichlorobenzene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,3-Dichlorobenzene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,4-Dichlorobenzene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,3-Dichloropropane	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,1-Dichloropropene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,2-Dibromo-3-Chloropropane	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Ethylene Dibromide	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Dibromomethane	ND		43		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Dichlorodifluoromethane	ND		43		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,1-Dichloroethane	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,2-Dichloroethane	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,1-Dichloroethene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
cis-1,2-Dichloroethene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
trans-1,2-Dichloroethene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,2-Dichloropropane	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
cis-1,3-Dichloropropene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
trans-1,3-Dichloropropene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Ethylbenzene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Hexachlorobutadiene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
2-Hexanone	ND		220		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Isopropylbenzene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
4-Isopropyltoluene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Methylene Chloride	ND		43		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
4-Methyl-2-pentanone (MIBK)	ND		220		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Naphthalene	ND		43		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
N-Propylbenzene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Styrene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,1,1,2-Tetrachloroethane	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: 2-OWS-COMP
Date Collected: 12/17/13 11:00
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-23
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Tetrachloroethene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Toluene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,2,3-Trichlorobenzene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,2,4-Trichlorobenzene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,1,1-Trichloroethane	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,1,2-Trichloroethane	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Trichloroethene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Trichlorofluoromethane	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,2,3-Trichloropropane	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,2,4-Trimethylbenzene	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
1,3,5-Trimethylbenzene	**59**		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Vinyl acetate	ND		220		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Vinyl chloride	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Xylenes, Total	ND		43		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
2,2-Dichloropropane	ND		22		ug/Kg		12/20/13 10:17	12/20/13 17:25	1
Gasoline Range Organics (GRO) -C5-C12	**5100**		1100		ug/Kg		12/20/13 10:17	12/20/13 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*45 - 131*	*12/20/13 10:17*	*12/20/13 17:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*	*12/20/13 10:17*	*12/20/13 17:25*	*1*
Toluene-d8 (Surr)	*85*		*58 - 140*	*12/20/13 10:17*	*12/20/13 17:25*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**840**		9.9		mg/Kg		12/24/13 10:41	12/27/13 01:06	10
Motor Oil Range Organics [C24-C36]	**1400**		500		mg/Kg		12/24/13 10:41	12/27/13 01:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*12/24/13 10:41*	*12/27/13 01:06*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*12/24/13 10:41*	*12/27/13 01:06*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.82**		0.43		mg/Kg		12/17/13 22:27	12/21/13 21:18	1
Arsenic	**3.1**		0.87		mg/Kg		12/17/13 22:27	12/21/13 21:18	1
Barium	**100**		0.43		mg/Kg		12/17/13 22:27	12/21/13 21:18	1
Beryllium	ND		0.087		mg/Kg		12/17/13 22:27	12/21/13 21:18	1
Cadmium	**0.13**		0.11		mg/Kg		12/17/13 22:27	12/21/13 21:18	1
Chromium	**35**		0.43		mg/Kg		12/17/13 22:27	12/21/13 21:18	1
Cobalt	**7.3**		0.17		mg/Kg		12/17/13 22:27	12/21/13 21:18	1
Copper	**17**		1.3		mg/Kg		12/17/13 22:27	12/21/13 21:18	1
Lead	**7.7**		0.43		mg/Kg		12/17/13 22:27	12/21/13 21:18	1
Molybdenum	**0.64**		0.43		mg/Kg		12/17/13 22:27	12/21/13 21:18	1
Nickel	**53**		0.43		mg/Kg		12/17/13 22:27	12/21/13 21:18	1
Selenium	ND	^	0.87		mg/Kg		12/17/13 22:27	12/21/13 21:18	1
Silver	ND		0.22		mg/Kg		12/17/13 22:27	12/21/13 21:18	1
Thallium	ND		0.43		mg/Kg		12/17/13 22:27	12/21/13 21:18	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: 2-OWS-COMP
Date Collected: 12/17/13 11:00
Date Received: 12/17/13 14:45

Lab Sample ID: 720-54435-23
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	20		0.43		mg/Kg		12/17/13 22:27	12/21/13 21:18	1
Zinc	35		1.3		mg/Kg		12/17/13 22:27	12/21/13 21:18	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.0095		mg/Kg		12/18/13 20:57	12/20/13 17:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-150498/4
Matrix: Solid
Analysis Batch: 150498

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			12/20/13 09:19	1
Acetone	ND		50		ug/Kg			12/20/13 09:19	1
Benzene	ND		5.0		ug/Kg			12/20/13 09:19	1
Dichlorobromomethane	ND		5.0		ug/Kg			12/20/13 09:19	1
Bromobenzene	ND		5.0		ug/Kg			12/20/13 09:19	1
Chlorobromomethane	ND		20		ug/Kg			12/20/13 09:19	1
Bromoform	ND		5.0		ug/Kg			12/20/13 09:19	1
Bromomethane	ND		10		ug/Kg			12/20/13 09:19	1
2-Butanone (MEK)	ND		50		ug/Kg			12/20/13 09:19	1
n-Butylbenzene	ND		5.0		ug/Kg			12/20/13 09:19	1
sec-Butylbenzene	ND		5.0		ug/Kg			12/20/13 09:19	1
tert-Butylbenzene	ND		5.0		ug/Kg			12/20/13 09:19	1
Carbon disulfide	ND		5.0		ug/Kg			12/20/13 09:19	1
Carbon tetrachloride	ND		5.0		ug/Kg			12/20/13 09:19	1
Chlorobenzene	ND		5.0		ug/Kg			12/20/13 09:19	1
Chloroethane	ND		10		ug/Kg			12/20/13 09:19	1
Chloroform	ND		5.0		ug/Kg			12/20/13 09:19	1
Chloromethane	ND		10		ug/Kg			12/20/13 09:19	1
2-Chlorotoluene	ND		5.0		ug/Kg			12/20/13 09:19	1
4-Chlorotoluene	ND		5.0		ug/Kg			12/20/13 09:19	1
Chlorodibromomethane	ND		5.0		ug/Kg			12/20/13 09:19	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			12/20/13 09:19	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			12/20/13 09:19	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			12/20/13 09:19	1
1,3-Dichloropropane	ND		5.0		ug/Kg			12/20/13 09:19	1
1,1-Dichloropropene	ND		5.0		ug/Kg			12/20/13 09:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			12/20/13 09:19	1
Ethylene Dibromide	ND		5.0		ug/Kg			12/20/13 09:19	1
Dibromomethane	ND		10		ug/Kg			12/20/13 09:19	1
Dichlorodifluoromethane	ND		10		ug/Kg			12/20/13 09:19	1
1,1-Dichloroethane	ND		5.0		ug/Kg			12/20/13 09:19	1
1,2-Dichloroethane	ND		5.0		ug/Kg			12/20/13 09:19	1
1,1-Dichloroethene	ND		5.0		ug/Kg			12/20/13 09:19	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			12/20/13 09:19	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			12/20/13 09:19	1
1,2-Dichloropropane	ND		5.0		ug/Kg			12/20/13 09:19	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			12/20/13 09:19	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			12/20/13 09:19	1
Ethylbenzene	ND		5.0		ug/Kg			12/20/13 09:19	1
Hexachlorobutadiene	ND		5.0		ug/Kg			12/20/13 09:19	1
2-Hexanone	ND		50		ug/Kg			12/20/13 09:19	1
Isopropylbenzene	ND		5.0		ug/Kg			12/20/13 09:19	1
4-Isopropyltoluene	ND		5.0		ug/Kg			12/20/13 09:19	1
Methylene Chloride	ND		10		ug/Kg			12/20/13 09:19	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			12/20/13 09:19	1
Naphthalene	ND		10		ug/Kg			12/20/13 09:19	1
N-Propylbenzene	ND		5.0		ug/Kg			12/20/13 09:19	1
Styrene	ND		5.0		ug/Kg			12/20/13 09:19	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-150498/4
Matrix: Solid
Analysis Batch: 150498

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			12/20/13 09:19	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			12/20/13 09:19	1
Tetrachloroethene	ND		5.0		ug/Kg			12/20/13 09:19	1
Toluene	ND		5.0		ug/Kg			12/20/13 09:19	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			12/20/13 09:19	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			12/20/13 09:19	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			12/20/13 09:19	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			12/20/13 09:19	1
Trichloroethene	ND		5.0		ug/Kg			12/20/13 09:19	1
Trichlorofluoromethane	ND		5.0		ug/Kg			12/20/13 09:19	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			12/20/13 09:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			12/20/13 09:19	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			12/20/13 09:19	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			12/20/13 09:19	1
Vinyl acetate	ND		50		ug/Kg			12/20/13 09:19	1
Vinyl chloride	ND		5.0		ug/Kg			12/20/13 09:19	1
Xylenes, Total	ND		10		ug/Kg			12/20/13 09:19	1
2,2-Dichloropropane	ND		5.0		ug/Kg			12/20/13 09:19	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			12/20/13 09:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*45 - 131*		*12/20/13 09:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*		*12/20/13 09:19*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*		*12/20/13 09:19*	*1*

Lab Sample ID: LCS 720-150498/5
Matrix: Solid
Analysis Batch: 150498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	55.0		ug/Kg		110	70 - 144
Acetone	250	313		ug/Kg		125	30 - 162
Benzene	50.0	53.2		ug/Kg		106	70 - 130
Dichlorobromomethane	50.0	57.9		ug/Kg		116	70 - 131
Bromobenzene	50.0	56.7		ug/Kg		113	70 - 130
Chlorobromomethane	50.0	57.0		ug/Kg		114	70 - 130
Bromoform	50.0	68.4		ug/Kg		137	59 - 158
Bromomethane	50.0	51.5		ug/Kg		103	59 - 132
2-Butanone (MEK)	250	302		ug/Kg		121	53 - 124
n-Butylbenzene	50.0	53.5		ug/Kg		107	70 - 142
sec-Butylbenzene	50.0	51.3		ug/Kg		103	70 - 136
tert-Butylbenzene	50.0	51.9		ug/Kg		104	70 - 130
Carbon disulfide	50.0	50.0		ug/Kg		100	60 - 140
Carbon tetrachloride	50.0	59.4		ug/Kg		119	70 - 138
Chlorobenzene	50.0	58.0		ug/Kg		116	70 - 130
Chloroethane	50.0	53.3		ug/Kg		107	65 - 130
Chloroform	50.0	57.1		ug/Kg		114	77 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-150498/5
Matrix: Solid
Analysis Batch: 150498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	56.0		ug/Kg		112	55 - 140
2-Chlorotoluene	50.0	54.4		ug/Kg		109	70 - 138
4-Chlorotoluene	50.0	53.7		ug/Kg		107	70 - 136
Chlorodibromomethane	50.0	61.6		ug/Kg		123	70 - 146
1,2-Dichlorobenzene	50.0	53.4		ug/Kg		107	70 - 130
1,3-Dichlorobenzene	50.0	54.9		ug/Kg		110	70 - 131
1,4-Dichlorobenzene	50.0	56.6		ug/Kg		113	70 - 130
1,3-Dichloropropane	50.0	59.0		ug/Kg		118	70 - 140
1,1-Dichloropropene	50.0	58.4		ug/Kg		117	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.6		ug/Kg		101	60 - 145
Ethylene Dibromide	50.0	60.0		ug/Kg		120	70 - 140
Dibromomethane	50.0	58.4		ug/Kg		117	70 - 139
Dichlorodifluoromethane	50.0	49.2		ug/Kg		98	37 - 158
1,1-Dichloroethane	50.0	56.8		ug/Kg		114	70 - 130
1,2-Dichloroethane	50.0	59.2		ug/Kg		118	70 - 130
1,1-Dichloroethene	50.0	53.0		ug/Kg		106	76 - 122
cis-1,2-Dichloroethene	50.0	57.6		ug/Kg		115	70 - 138
trans-1,2-Dichloroethene	50.0	55.7		ug/Kg		111	67 - 130
1,2-Dichloropropane	50.0	55.6		ug/Kg		111	73 - 127
cis-1,3-Dichloropropene	50.0	57.5		ug/Kg		115	68 - 147
trans-1,3-Dichloropropene	50.0	63.5		ug/Kg		127	70 - 136
Ethylbenzene	50.0	56.2		ug/Kg		112	80 - 137
Hexachlorobutadiene	50.0	54.6		ug/Kg		109	70 - 132
2-Hexanone	250	310		ug/Kg		124	44 - 133
Isopropylbenzene	50.0	55.0		ug/Kg		110	88 - 128
4-Isopropyltoluene	50.0	51.0		ug/Kg		102	70 - 133
Methylene Chloride	50.0	57.5		ug/Kg		115	70 - 134
4-Methyl-2-pentanone (MIBK)	250	310		ug/Kg		124	60 - 160
Naphthalene	50.0	48.0		ug/Kg		96	60 - 147
N-Propylbenzene	50.0	51.7		ug/Kg		103	70 - 130
Styrene	50.0	57.8		ug/Kg		116	70 - 130
1,1,1,2-Tetrachloroethane	50.0	59.1		ug/Kg		118	70 - 130
1,1,2,2-Tetrachloroethane	50.0	55.0		ug/Kg		110	70 - 146
Tetrachloroethene	50.0	62.2		ug/Kg		124	70 - 132
Toluene	50.0	55.3		ug/Kg		111	80 - 128
1,2,3-Trichlorobenzene	50.0	53.3		ug/Kg		107	60 - 140
1,2,4-Trichlorobenzene	50.0	54.3		ug/Kg		109	60 - 140
1,1,1-Trichloroethane	50.0	58.4		ug/Kg		117	70 - 130
1,1,2-Trichloroethane	50.0	57.7		ug/Kg		115	70 - 130
Trichloroethene	50.0	56.7		ug/Kg		113	70 - 133
Trichlorofluoromethane	50.0	55.6		ug/Kg		111	60 - 140
1,2,3-Trichloropropane	50.0	54.4		ug/Kg		109	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.5		ug/Kg		115	60 - 140
1,2,4-Trimethylbenzene	50.0	53.2		ug/Kg		106	70 - 130
1,3,5-Trimethylbenzene	50.0	53.2		ug/Kg		106	70 - 131
Vinyl acetate	50.0	71.9		ug/Kg		144	38 - 176
Vinyl chloride	50.0	50.4		ug/Kg		101	58 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-150498/5
Matrix: Solid
Analysis Batch: 150498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	100	111		ug/Kg		111	70 - 146
o-Xylene	50.0	59.9		ug/Kg		120	70 - 140
2,2-Dichloropropane	50.0	56.6		ug/Kg		113	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*96*		*58 - 140*

Lab Sample ID: LCS 720-150498/7
Matrix: Solid
Analysis Batch: 150498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1140		ug/Kg		114	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: LCSD 720-150498/6
Matrix: Solid
Analysis Batch: 150498

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	53.9		ug/Kg		108	70 - 144	2	20
Acetone	250	300		ug/Kg		120	30 - 162	4	30
Benzene	50.0	54.1		ug/Kg		108	70 - 130	2	20
Dichlorobromomethane	50.0	57.2		ug/Kg		114	70 - 131	1	20
Bromobenzene	50.0	58.3		ug/Kg		117	70 - 130	3	20
Chlorobromomethane	50.0	57.3		ug/Kg		115	70 - 130	0	20
Bromoform	50.0	71.8		ug/Kg		144	59 - 158	5	20
Bromomethane	50.0	51.8		ug/Kg		104	59 - 132	0	20
2-Butanone (MEK)	250	274		ug/Kg		110	53 - 124	10	20
n-Butylbenzene	50.0	54.3		ug/Kg		109	70 - 142	1	20
sec-Butylbenzene	50.0	52.4		ug/Kg		105	70 - 136	2	20
tert-Butylbenzene	50.0	53.2		ug/Kg		106	70 - 130	2	20
Carbon disulfide	50.0	50.2		ug/Kg		100	60 - 140	0	20
Carbon tetrachloride	50.0	61.0		ug/Kg		122	70 - 138	3	20
Chlorobenzene	50.0	60.6		ug/Kg		121	70 - 130	4	20
Chloroethane	50.0	53.0		ug/Kg		106	65 - 130	0	20
Chloroform	50.0	57.3		ug/Kg		115	77 - 127	0	20
Chloromethane	50.0	55.6		ug/Kg		111	55 - 140	1	20
2-Chlorotoluene	50.0	55.8		ug/Kg		112	70 - 138	3	20
4-Chlorotoluene	50.0	54.7		ug/Kg		109	70 - 136	2	20
Chlorodibromomethane	50.0	61.9		ug/Kg		124	70 - 146	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-150498/6
Matrix: Solid
Analysis Batch: 150498

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	53.5		ug/Kg		107	70 - 130	0	20
1,3-Dichlorobenzene	50.0	55.2		ug/Kg		110	70 - 131	1	20
1,4-Dichlorobenzene	50.0	57.4		ug/Kg		115	70 - 130	1	20
1,3-Dichloropropane	50.0	57.6		ug/Kg		115	70 - 140	2	20
1,1-Dichloropropene	50.0	60.2		ug/Kg		120	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	50.0	50.5		ug/Kg		101	60 - 145	0	20
Ethylene Dibromide	50.0	59.1		ug/Kg		118	70 - 140	1	20
Dibromomethane	50.0	58.9		ug/Kg		118	70 - 139	1	20
Dichlorodifluoromethane	50.0	50.0		ug/Kg		100	37 - 158	2	20
1,1-Dichloroethane	50.0	57.3		ug/Kg		115	70 - 130	1	20
1,2-Dichloroethane	50.0	58.5		ug/Kg		117	70 - 130	1	20
1,1-Dichloroethene	50.0	54.2		ug/Kg		108	76 - 122	2	20
cis-1,2-Dichloroethene	50.0	58.8		ug/Kg		118	70 - 138	2	20
trans-1,2-Dichloroethene	50.0	56.1		ug/Kg		112	67 - 130	1	20
1,2-Dichloropropane	50.0	55.7		ug/Kg		111	73 - 127	0	20
cis-1,3-Dichloropropene	50.0	57.6		ug/Kg		115	68 - 147	0	20
trans-1,3-Dichloropropene	50.0	62.9		ug/Kg		126	70 - 136	1	20
Ethylbenzene	50.0	58.6		ug/Kg		117	80 - 137	4	20
Hexachlorobutadiene	50.0	54.5		ug/Kg		109	70 - 132	0	20
2-Hexanone	250	303		ug/Kg		121	44 - 133	2	20
Isopropylbenzene	50.0	57.8		ug/Kg		116	88 - 128	5	20
4-Isopropyltoluene	50.0	52.3		ug/Kg		105	70 - 133	2	20
Methylene Chloride	50.0	56.7		ug/Kg		113	70 - 134	1	20
4-Methyl-2-pentanone (MIBK)	250	302		ug/Kg		121	60 - 160	3	20
Naphthalene	50.0	48.1		ug/Kg		96	60 - 147	0	20
N-Propylbenzene	50.0	52.7		ug/Kg		105	70 - 130	2	20
Styrene	50.0	60.1		ug/Kg		120	70 - 130	4	20
1,1,1,2-Tetrachloroethane	50.0	62.2		ug/Kg		124	70 - 130	5	20
1,1,2,2-Tetrachloroethane	50.0	55.7		ug/Kg		111	70 - 146	1	20
Tetrachloroethene	50.0	62.5		ug/Kg		125	70 - 132	0	20
Toluene	50.0	57.0		ug/Kg		114	80 - 128	3	20
1,2,3-Trichlorobenzene	50.0	53.2		ug/Kg		106	60 - 140	0	20
1,2,4-Trichlorobenzene	50.0	53.5		ug/Kg		107	60 - 140	1	20
1,1,1-Trichloroethane	50.0	61.3		ug/Kg		123	70 - 130	5	20
1,1,2-Trichloroethane	50.0	57.9		ug/Kg		116	70 - 130	0	20
Trichloroethene	50.0	57.6		ug/Kg		115	70 - 133	2	20
Trichlorofluoromethane	50.0	55.4		ug/Kg		111	60 - 140	0	20
1,2,3-Trichloropropane	50.0	54.5		ug/Kg		109	70 - 146	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.5		ug/Kg		117	60 - 140	2	20
1,2,4-Trimethylbenzene	50.0	54.0		ug/Kg		108	70 - 130	1	20
1,3,5-Trimethylbenzene	50.0	54.6		ug/Kg		109	70 - 131	2	20
Vinyl acetate	50.0	70.5		ug/Kg		141	38 - 176	2	20
Vinyl chloride	50.0	52.1		ug/Kg		104	58 - 125	3	20
m-Xylene & p-Xylene	100	115		ug/Kg		115	70 - 146	4	20
o-Xylene	50.0	61.9		ug/Kg		124	70 - 140	3	20
2,2-Dichloropropane	50.0	61.7		ug/Kg		123	70 - 162	9	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-150498/6
Matrix: Solid
Analysis Batch: 150498

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*99*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*95*		*58 - 140*

Lab Sample ID: LCSD 720-150498/8
Matrix: Solid
Analysis Batch: 150498

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1080		ug/Kg		108	61 - 128	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*98*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-150311/1-A
Matrix: Solid
Analysis Batch: 150342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150311

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 13:08	1
Acenaphthylene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 13:08	1
Anthracene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 13:08	1
Benzo[a]anthracene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 13:08	1
Benzo[a]pyrene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 13:08	1
Benzo[b]fluoranthene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 13:08	1
Benzo[g,h,i]perylene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 13:08	1
Benzo[k]fluoranthene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 13:08	1
Chrysene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 13:08	1
Dibenz(a,h)anthracene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 13:08	1
Fluoranthene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 13:08	1
Fluorene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 13:08	1
Indeno[1,2,3-cd]pyrene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 13:08	1
Naphthalene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 13:08	1
Phenanthrene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 13:08	1
Pyrene	ND		4.9		ug/Kg		12/17/13 21:51	12/18/13 13:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*70*		*33 - 120*	*12/17/13 21:51*	*12/18/13 13:08*	*1*
Terphenyl-d14	*86*		*35 - 146*	*12/17/13 21:51*	*12/18/13 13:08*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCS 720-150311/26-A
Matrix: Solid
Analysis Batch: 150342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150311

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene			328	231		ug/Kg		70	49 - 120		
Acenaphthylene			328	234		ug/Kg		71	52 - 120		
Anthracene			328	261		ug/Kg		79	52 - 120		
Benzo[a]anthracene			328	288		ug/Kg		88	52 - 120		
Benzo[a]pyrene			328	302		ug/Kg		92	54 - 120		
Benzo[b]fluoranthene			328	302		ug/Kg		92	51 - 120		
Benzo[g,h,i]perylene			328	309		ug/Kg		94	48 - 120		
Benzo[k]fluoranthene			328	294		ug/Kg		90	56 - 120		
Chrysene			328	276		ug/Kg		84	40 - 120		
Dibenz(a,h)anthracene			328	327		ug/Kg		100	50 - 120		
Fluoranthene			328	256		ug/Kg		78	57 - 120		
Fluorene			328	244		ug/Kg		74	52 - 120		
Indeno[1,2,3-cd]pyrene			328	313		ug/Kg		95	48 - 120		
Naphthalene			328	214		ug/Kg		65	46 - 120		
Phenanthrene			328	240		ug/Kg		73	48 - 120		
Pyrene			328	272		ug/Kg		83	53 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*33 - 120*
Terphenyl-d14	*86*		*35 - 146*

Lab Sample ID: LCSD 720-150311/3-A
Matrix: Solid
Analysis Batch: 150342

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 150311

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			328	231		ug/Kg		70	49 - 120	0	20
Acenaphthylene			328	236		ug/Kg		72	52 - 120	1	20
Anthracene			328	260		ug/Kg		79	52 - 120	0	20
Benzo[a]anthracene			328	286		ug/Kg		87	52 - 120	0	20
Benzo[a]pyrene			328	300		ug/Kg		91	54 - 120	1	20
Benzo[b]fluoranthene			328	310		ug/Kg		94	51 - 120	2	20
Benzo[g,h,i]perylene			328	306		ug/Kg		93	48 - 120	1	20
Benzo[k]fluoranthene			328	282		ug/Kg		86	56 - 120	4	20
Chrysene			328	272		ug/Kg		83	40 - 120	2	20
Dibenz(a,h)anthracene			328	322		ug/Kg		98	50 - 120	1	20
Fluoranthene			328	265		ug/Kg		81	57 - 120	4	20
Fluorene			328	229		ug/Kg		70	52 - 120	6	20
Indeno[1,2,3-cd]pyrene			328	310		ug/Kg		94	48 - 120	1	20
Naphthalene			328	216		ug/Kg		66	46 - 120	1	20
Phenanthrene			328	241		ug/Kg		73	48 - 120	1	20
Pyrene			328	271		ug/Kg		83	53 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*68*		*33 - 120*
Terphenyl-d14	*87*		*35 - 146*

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: MB 720-150688/1-A
Matrix: Solid
Analysis Batch: 150752

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		12/24/13 10:08	12/26/13 10:58	1
Acenaphthylene	ND		5.0		ug/Kg		12/24/13 10:08	12/26/13 10:58	1
Anthracene	ND		5.0		ug/Kg		12/24/13 10:08	12/26/13 10:58	1
Benzo[a]anthracene	ND		5.0		ug/Kg		12/24/13 10:08	12/26/13 10:58	1
Benzo[a]pyrene	ND		5.0		ug/Kg		12/24/13 10:08	12/26/13 10:58	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		12/24/13 10:08	12/26/13 10:58	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		12/24/13 10:08	12/26/13 10:58	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		12/24/13 10:08	12/26/13 10:58	1
Chrysene	ND		5.0		ug/Kg		12/24/13 10:08	12/26/13 10:58	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		12/24/13 10:08	12/26/13 10:58	1
Fluoranthene	ND		5.0		ug/Kg		12/24/13 10:08	12/26/13 10:58	1
Fluorene	ND		5.0		ug/Kg		12/24/13 10:08	12/26/13 10:58	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		12/24/13 10:08	12/26/13 10:58	1
Naphthalene	ND		5.0		ug/Kg		12/24/13 10:08	12/26/13 10:58	1
Phenanthrene	ND		5.0		ug/Kg		12/24/13 10:08	12/26/13 10:58	1
Pyrene	ND		5.0		ug/Kg		12/24/13 10:08	12/26/13 10:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*33 - 120*	*12/24/13 10:08*	*12/26/13 10:58*	*1*
Terphenyl-d14	*92*		*35 - 146*	*12/24/13 10:08*	*12/26/13 10:58*	*1*

Lab Sample ID: LCS 720-150688/2-A
Matrix: Solid
Analysis Batch: 150752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	330	249		ug/Kg		75	49 - 120
Acenaphthylene	330	261		ug/Kg		79	52 - 120
Anthracene	330	287		ug/Kg		87	52 - 120
Benzo[a]anthracene	330	317		ug/Kg		96	52 - 120
Benzo[a]pyrene	330	334		ug/Kg		101	54 - 120
Benzo[b]fluoranthene	330	333		ug/Kg		101	51 - 120
Benzo[g,h,i]perylene	330	358		ug/Kg		108	48 - 120
Benzo[k]fluoranthene	330	323		ug/Kg		98	56 - 120
Chrysene	330	304		ug/Kg		92	40 - 120
Dibenz(a,h)anthracene	330	375		ug/Kg		113	50 - 120
Fluoranthene	330	296		ug/Kg		90	57 - 120
Fluorene	330	268		ug/Kg		81	52 - 120
Indeno[1,2,3-cd]pyrene	330	357		ug/Kg		108	48 - 120
Naphthalene	330	233		ug/Kg		71	46 - 120
Phenanthrene	330	264		ug/Kg		80	48 - 120
Pyrene	330	307		ug/Kg		93	53 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*33 - 120*
Terphenyl-d14	*93*		*35 - 146*

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-150688/3-A
Matrix: Solid
Analysis Batch: 150752

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 150688

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			330	242		ug/Kg		73	49 - 120	3	20
Acenaphthylene			330	250		ug/Kg		76	52 - 120	4	20
Anthracene			330	275		ug/Kg		83	52 - 120	4	20
Benzo[a]anthracene			330	314		ug/Kg		95	52 - 120	1	20
Benzo[a]pyrene			330	321		ug/Kg		97	54 - 120	4	20
Benzo[b]fluoranthene			330	328		ug/Kg		99	51 - 120	1	20
Benzo[g,h,i]perylene			330	341		ug/Kg		103	48 - 120	5	20
Benzo[k]fluoranthene			330	308		ug/Kg		93	56 - 120	5	20
Chrysene			330	300		ug/Kg		91	40 - 120	1	20
Dibenz(a,h)anthracene			330	358		ug/Kg		109	50 - 120	4	20
Fluoranthene			330	290		ug/Kg		88	57 - 120	2	20
Fluorene			330	252		ug/Kg		76	52 - 120	6	20
Indeno[1,2,3-cd]pyrene			330	343		ug/Kg		104	48 - 120	4	20
Naphthalene			330	230		ug/Kg		70	46 - 120	1	20
Phenanthrene			330	258		ug/Kg		78	48 - 120	2	20
Pyrene			330	308		ug/Kg		93	53 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*81*		*33 - 120*
Terphenyl-d14	*96*		*35 - 146*

Lab Sample ID: 720-54435-3 MS
Matrix: Solid
Analysis Batch: 150752

Client Sample ID: RL-B3
Prep Type: Total/NA
Prep Batch: 150688

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1500		329	1730	4	ug/Kg		77	33 - 120
Acenaphthylene	ND		329	ND		ug/Kg		99	28 - 120
Anthracene	4400		329	4550	4	ug/Kg		37	36 - 120
Benzo[a]anthracene	9300		329	9280	4	ug/Kg		7	29 - 120
Benzo[a]pyrene	6200		329	6360	4	ug/Kg		61	24 - 120
Benzo[b]fluoranthene	8800		329	9410	4	ug/Kg		197	17 - 132
Benzo[g,h,i]perylene	1300		329	1440	4	ug/Kg		38	21 - 120
Benzo[k]fluoranthene	4200		329	4160	4	ug/Kg		0.6	35 - 120
Chrysene	10000		329	10200	4	ug/Kg		72	29 - 120
Dibenz(a,h)anthracene	600		329	814		ug/Kg		64	36 - 120
Fluoranthene	22000		329	21800	4	ug/Kg		10	24 - 120
Fluorene	970		329	1220		ug/Kg		75	35 - 120
Indeno[1,2,3-cd]pyrene	1400		329	1580	4	ug/Kg		42	20 - 126
Naphthalene	ND		329	ND	F	ug/Kg		125	32 - 120
Phenanthrene	14000		329	13700	4	ug/Kg		-44	28 - 120
Pyrene	22000		329	23400	4	ug/Kg		333	24 - 123

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*92*		*33 - 120*
Terphenyl-d14	*116*		*35 - 146*

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: 720-54435-3 MSD
Matrix: Solid
Analysis Batch: 150752

Client Sample ID: RL-B3
Prep Type: Total/NA
Prep Batch: 150688

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	1500		331	2390	4 F	ug/Kg		275	33 - 120	32	20
Acenaphthylene	ND		331	ND		ug/Kg		97	28 - 120	1	20
Anthracene	4400		331	6510	4 F	ug/Kg		629	36 - 120	35	20
Benzo[a]anthracene	9300		331	12100	4 F	ug/Kg		851	29 - 120	26	20
Benzo[a]pyrene	6200		331	7650	4	ug/Kg		450	24 - 120	18	20
Benzo[b]fluoranthene	8800		331	11000	4	ug/Kg		681	17 - 132	16	20
Benzo[g,h,i]perylene	1300		331	1630		ug/Kg		95	21 - 120	12	20
Benzo[k]fluoranthene	4200		331	5150	4 F	ug/Kg		297	35 - 120	21	20
Chrysene	10000		331	11800	4	ug/Kg		565	29 - 120	15	20
Dibenz(a,h)anthracene	600		331	876		ug/Kg		83	36 - 120	7	20
Fluoranthene	22000		331	27900	4 F	ug/Kg		1849	24 - 120	25	20
Fluorene	970		331	1810	F	ug/Kg		255	35 - 120	39	20
Indeno[1,2,3-cd]pyrene	1400		331	1770	4	ug/Kg		98	20 - 126	11	20
Naphthalene	ND		331	ND	F	ug/Kg		149	32 - 120	18	20
Phenanthrene	14000		331	19600	4 F	ug/Kg		1730	28 - 120	35	20
Pyrene	22000		331	28800	4 F	ug/Kg		1966	24 - 123	21	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*89*		*33 - 120*
Terphenyl-d14	*112*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-150611/1-A
Matrix: Solid
Analysis Batch: 150591

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 150611

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		12/23/13 11:22	12/23/13 17:51	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/23/13 11:22	12/23/13 17:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*12/23/13 11:22*	*12/23/13 17:51*	*1*
p-Terphenyl	*102*		*38 - 148*	*12/23/13 11:22*	*12/23/13 17:51*	*1*

Lab Sample ID: LCS 720-150611/2-A
Matrix: Solid
Analysis Batch: 150591

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 150611

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			83.0	63.3		mg/Kg		76	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*123*		*38 - 148*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-150611/3-A
Matrix: Solid
Analysis Batch: 150591

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 150611

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.9	66.1		mg/Kg		80	36 - 112	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*126*		*38 - 148*

Lab Sample ID: MB 720-150695/1-A
Matrix: Solid
Analysis Batch: 150756

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 150695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		12/24/13 10:41	12/26/13 15:23	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		12/24/13 10:41	12/26/13 15:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*12/24/13 10:41*	*12/26/13 15:23*	*1*
p-Terphenyl	*91*		*38 - 148*	*12/24/13 10:41*	*12/26/13 15:23*	*1*

Lab Sample ID: LCS 720-150695/2-A
Matrix: Solid
Analysis Batch: 150756

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 150695

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			83.0	74.4		mg/Kg		90	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*120*		*38 - 148*

Lab Sample ID: LCSD 720-150695/3-A
Matrix: Solid
Analysis Batch: 150756

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 150695

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			83.1	71.8		mg/Kg		86	36 - 112	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*119*		*38 - 148*

Lab Sample ID: 720-54435-4 MS
Matrix: Solid
Analysis Batch: 150757

Client Sample ID: RL-B4
Prep Type: Silica Gel Cleanup
Prep Batch: 150695

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	230		82.3	285		mg/Kg		65	50 - 150		

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-54435-4 MS
Matrix: Solid
Analysis Batch: 150757

Client Sample ID: RL-B4
Prep Type: Silica Gel Cleanup
Prep Batch: 150695

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	*0*	*X D*	*38 - 148*

Lab Sample ID: 720-54435-4 MSD
Matrix: Solid
Analysis Batch: 150757

Client Sample ID: RL-B4
Prep Type: Silica Gel Cleanup
Prep Batch: 150695

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	230		82.2	275		mg/Kg		53	50 - 150	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	*0*	*X D*	*38 - 148*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 720-150662/1-A
Matrix: Solid
Analysis Batch: 150586

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150662

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		12/23/13 19:57	12/24/13 01:18	1
PCB-1221	ND		49		ug/Kg		12/23/13 19:57	12/24/13 01:18	1
PCB-1232	ND		49		ug/Kg		12/23/13 19:57	12/24/13 01:18	1
PCB-1242	ND		49		ug/Kg		12/23/13 19:57	12/24/13 01:18	1
PCB-1248	ND		49		ug/Kg		12/23/13 19:57	12/24/13 01:18	1
PCB-1254	ND		49		ug/Kg		12/23/13 19:57	12/24/13 01:18	1
PCB-1260	ND		49		ug/Kg		12/23/13 19:57	12/24/13 01:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*90*		*45 - 132*	*12/23/13 19:57*	*12/24/13 01:18*	*1*
DCB Decachlorobiphenyl	*88*		*42 - 146*	*12/23/13 19:57*	*12/24/13 01:18*	*1*

Lab Sample ID: LCS 720-150662/2-A
Matrix: Solid
Analysis Batch: 150586

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	130	125		ug/Kg		97	65 - 121
PCB-1260	130	116		ug/Kg		90	68 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	*83*		*45 - 132*
DCB Decachlorobiphenyl	*86*		*42 - 146*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 720-150662/3-A
Matrix: Solid
Analysis Batch: 150586

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 150662

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			129	134		ug/Kg		104	65 - 121	7	20
PCB-1260			129	118		ug/Kg		92	68 - 127	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*45 - 132*
DCB Decachlorobiphenyl	*88*		*42 - 146*

Lab Sample ID: 720-54435-1 MS
Matrix: Solid
Analysis Batch: 150586

Client Sample ID: RL-B1
Prep Type: Total/NA
Prep Batch: 150662

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		132	124		ug/Kg		94	69 - 120
PCB-1260	ND		132	106		ug/Kg		81	73 - 114

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*45 - 132*
DCB Decachlorobiphenyl	*71*		*42 - 146*

Lab Sample ID: 720-54435-1 MSD
Matrix: Solid
Analysis Batch: 150586

Client Sample ID: RL-B1
Prep Type: Total/NA
Prep Batch: 150662

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		129	137		ug/Kg		106	69 - 120	10	20
PCB-1260	ND		129	110		ug/Kg		85	73 - 114	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*45 - 132*
DCB Decachlorobiphenyl	*75*		*42 - 146*

Lab Sample ID: MB 720-150694/1-A
Matrix: Solid
Analysis Batch: 150748

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150694

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		12/24/13 10:39	12/26/13 12:34	1
PCB-1221	ND		50		ug/Kg		12/24/13 10:39	12/26/13 12:34	1
PCB-1232	ND		50		ug/Kg		12/24/13 10:39	12/26/13 12:34	1
PCB-1242	ND		50		ug/Kg		12/24/13 10:39	12/26/13 12:34	1
PCB-1248	ND		50		ug/Kg		12/24/13 10:39	12/26/13 12:34	1
PCB-1254	ND		50		ug/Kg		12/24/13 10:39	12/26/13 12:34	1
PCB-1260	ND		50		ug/Kg		12/24/13 10:39	12/26/13 12:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*45 - 132*	*12/24/13 10:39*	*12/26/13 12:34*	*1*
DCB Decachlorobiphenyl	*74*		*42 - 146*	*12/24/13 10:39*	*12/26/13 12:34*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 720-150694/2-A
Matrix: Solid
Analysis Batch: 150748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150694

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			132	142		ug/Kg		107	65 - 121		
PCB-1260			132	123		ug/Kg		93	68 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*96*		*45 - 132*
DCB Decachlorobiphenyl	*84*		*42 - 146*

Lab Sample ID: LCSD 720-150694/3-A
Matrix: Solid
Analysis Batch: 150748

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 150694

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			132	132		ug/Kg		100	65 - 121	7	20
PCB-1260			132	117		ug/Kg		88	68 - 127	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*90*		*45 - 132*
DCB Decachlorobiphenyl	*80*		*42 - 146*

Lab Sample ID: 720-54435-2 MS
Matrix: Solid
Analysis Batch: 150748

Client Sample ID: RL-B2
Prep Type: Total/NA
Prep Batch: 150694

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		132	157		ug/Kg		119	69 - 120		
PCB-1260	ND		132	136		ug/Kg		103	73 - 114		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*77*		*45 - 132*
DCB Decachlorobiphenyl	*75*		*42 - 146*

Lab Sample ID: 720-54435-2 MSD
Matrix: Solid
Analysis Batch: 150748

Client Sample ID: RL-B2
Prep Type: Total/NA
Prep Batch: 150694

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		130	145		ug/Kg		111	69 - 120	8	20
PCB-1260	ND		130	123		ug/Kg		94	73 - 114	10	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*45 - 132*
DCB Decachlorobiphenyl	*71*		*42 - 146*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-150309/1-A
Matrix: Solid
Analysis Batch: 150393

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 150309

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		12/17/13 21:42	12/18/13 18:23	1
Arsenic	ND		1.0		mg/Kg		12/17/13 21:42	12/18/13 18:23	1
Barium	ND		0.50		mg/Kg		12/17/13 21:42	12/18/13 18:23	1
Beryllium	ND		0.10		mg/Kg		12/17/13 21:42	12/18/13 18:23	1
Cadmium	ND		0.13		mg/Kg		12/17/13 21:42	12/18/13 18:23	1
Chromium	ND		0.50		mg/Kg		12/17/13 21:42	12/18/13 18:23	1
Cobalt	ND		0.20		mg/Kg		12/17/13 21:42	12/18/13 18:23	1
Copper	ND		1.5		mg/Kg		12/17/13 21:42	12/18/13 18:23	1
Lead	ND		0.50		mg/Kg		12/17/13 21:42	12/18/13 18:23	1
Molybdenum	ND		0.50		mg/Kg		12/17/13 21:42	12/18/13 18:23	1
Nickel	ND		0.50		mg/Kg		12/17/13 21:42	12/18/13 18:23	1
Selenium	ND		1.0		mg/Kg		12/17/13 21:42	12/18/13 18:23	1
Silver	ND		0.25		mg/Kg		12/17/13 21:42	12/18/13 18:23	1
Thallium	ND		0.50		mg/Kg		12/17/13 21:42	12/18/13 18:23	1
Vanadium	ND		0.50		mg/Kg		12/17/13 21:42	12/18/13 18:23	1
Zinc	ND		1.5		mg/Kg		12/17/13 21:42	12/18/13 18:23	1

Lab Sample ID: LCS 720-150309/2-A
Matrix: Solid
Analysis Batch: 150393

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150309

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	43.0		mg/Kg		86	80 - 120
Arsenic	50.0	46.8		mg/Kg		94	80 - 120
Barium	50.0	44.7		mg/Kg		89	80 - 120
Beryllium	50.0	46.0		mg/Kg		92	80 - 120
Cadmium	50.0	46.1		mg/Kg		92	80 - 120
Chromium	50.0	44.7		mg/Kg		89	80 - 120
Cobalt	50.0	48.5		mg/Kg		97	80 - 120
Copper	50.0	45.9		mg/Kg		92	80 - 120
Lead	50.0	47.1		mg/Kg		94	80 - 120
Molybdenum	50.0	47.0		mg/Kg		94	80 - 120
Nickel	50.0	47.5		mg/Kg		95	80 - 120
Selenium	50.0	45.0		mg/Kg		90	80 - 120
Thallium	50.0	47.3		mg/Kg		95	80 - 120
Vanadium	50.0	44.5		mg/Kg		89	80 - 120
Zinc	50.0	47.5		mg/Kg		95	80 - 120

Lab Sample ID: LCS 720-150309/2-A
Matrix: Solid
Analysis Batch: 150729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 150309

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	25.0	25.6		mg/Kg		102	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 720-150309/3-A
Matrix: Solid
Analysis Batch: 150393

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 150309

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony			50.0	44.2		mg/Kg		88	80 - 120	3	20
Arsenic			50.0	46.3		mg/Kg		93	80 - 120	1	20
Barium			50.0	44.6		mg/Kg		89	80 - 120	0	20
Beryllium			50.0	45.2		mg/Kg		90	80 - 120	2	20
Cadmium			50.0	45.7		mg/Kg		91	80 - 120	1	20
Chromium			50.0	44.3		mg/Kg		89	80 - 120	1	20
Cobalt			50.0	47.8		mg/Kg		96	80 - 120	1	20
Copper			50.0	45.6		mg/Kg		91	80 - 120	1	20
Lead			50.0	46.7		mg/Kg		93	80 - 120	1	20
Molybdenum			50.0	46.9		mg/Kg		94	80 - 120	0	20
Nickel			50.0	47.0		mg/Kg		94	80 - 120	1	20
Selenium			50.0	44.9		mg/Kg		90	80 - 120	0	20
Thallium			50.0	46.9		mg/Kg		94	80 - 120	1	20
Vanadium			50.0	44.1		mg/Kg		88	80 - 120	1	20
Zinc			50.0	46.7		mg/Kg		93	80 - 120	2	20

Lab Sample ID: LCSD 720-150309/3-A
Matrix: Solid
Analysis Batch: 150729

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 150309

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver			25.0	25.5		mg/Kg		102	80 - 120	0	20

Lab Sample ID: 720-54435-1 MS
Matrix: Solid
Analysis Batch: 150393

Client Sample ID: RL-B1
Prep Type: Total/NA
Prep Batch: 150309

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		44.2	19.7	F	mg/Kg		40	75 - 125
Arsenic	4.9		44.2	53.5		mg/Kg		110	75 - 125
Barium	170		44.2	200	F	mg/Kg		71	75 - 125
Beryllium	ND		44.2	57.1	F	mg/Kg		129	75 - 125
Cadmium	ND		44.2	46.9		mg/Kg		106	75 - 125
Chromium	52		44.2	108	F	mg/Kg		127	75 - 125
Cobalt	13		44.2	60.3		mg/Kg		107	75 - 125
Copper	46		44.2	88.3		mg/Kg		96	75 - 125
Lead	20		44.2	61.7		mg/Kg		93	75 - 125
Molybdenum	ND		44.2	48.4		mg/Kg		106	75 - 125
Nickel	70		44.2	115		mg/Kg		103	75 - 125
Selenium	ND		44.2	48.1		mg/Kg		109	75 - 125
Silver	ND		22.1	23.0		mg/Kg		104	75 - 125
Thallium	ND		44.2	48.0		mg/Kg		108	75 - 125
Vanadium	42		44.2	93.2		mg/Kg		115	75 - 125
Zinc	55		44.2	99.7		mg/Kg		100	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-54435-1 MSD — **Client Sample ID: RL-B1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 150393 — **Prep Batch: 150309**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		49.5	19.3	F	mg/Kg		35	75 - 125	2	20
Arsenic	4.9		49.5	59.8		mg/Kg		111	75 - 125	11	20
Barium	170		49.5	201	F	mg/Kg		65	75 - 125	1	20
Beryllium	ND		49.5	58.8		mg/Kg		119	75 - 125	3	20
Cadmium	ND		49.5	52.8		mg/Kg		107	75 - 125	12	20
Chromium	52		49.5	123	F	mg/Kg		144	75 - 125	13	20
Cobalt	13		49.5	66.9		mg/Kg		109	75 - 125	10	20
Copper	46		49.5	92.9		mg/Kg		95	75 - 125	5	20
Lead	20		49.5	66.6		mg/Kg		93	75 - 125	8	20
Molybdenum	ND		49.5	53.3		mg/Kg		105	75 - 125	10	20
Nickel	70		49.5	126		mg/Kg		114	75 - 125	9	20
Selenium	ND		49.5	53.8		mg/Kg		109	75 - 125	11	20
Silver	ND		24.8	25.2		mg/Kg		102	75 - 125	9	20
Thallium	ND		49.5	53.7		mg/Kg		108	75 - 125	11	20
Vanadium	42		49.5	101		mg/Kg		118	75 - 125	8	20
Zinc	55		49.5	109		mg/Kg		108	75 - 125	9	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-150398/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 150544 — **Prep Batch: 150398**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		12/18/13 20:57	12/20/13 16:58	1

Lab Sample ID: LCS 720-150398/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 150544 — **Prep Batch: 150398**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.858		mg/Kg		103	80 - 120		

Lab Sample ID: LCSD 720-150398/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 150544 — **Prep Batch: 150398**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.833	0.850		mg/Kg		102	80 - 120	1	20

Lab Sample ID: 720-54435-23 MS — **Client Sample ID: 2-OWS-COMP**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 150544 — **Prep Batch: 150398**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.018		0.758	0.795		mg/Kg		103	75 - 125		

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 720-54435-23 MSD
Matrix: Solid
Analysis Batch: 150544

Client Sample ID: 2-OWS-COMP
Prep Type: Total/NA
Prep Batch: 150398

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.018		0.704	0.754		mg/Kg		104	75 - 125	5	20

GC/MS VOA

Analysis Batch: 150498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-23	2-OWS-COMP	Total/NA	Solid	8260B	150506
LCS 720-150498/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-150498/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-150498/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-150498/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-150498/4	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 150506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-23	2-OWS-COMP	Total/NA	Solid	5030B	

GC/MS Semi VOA

Prep Batch: 150311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-9	RL-B9	Total/NA	Solid	3546	
720-54435-10	RL-B10	Total/NA	Solid	3546	
720-54435-11	RL-B11	Total/NA	Solid	3546	
720-54435-12	RL-B12	Total/NA	Solid	3546	
720-54435-13	RL-B13	Total/NA	Solid	3546	
720-54435-14	RL-B14	Total/NA	Solid	3546	
LCS 720-150311/26-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-150311/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-150311/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 150342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-9	RL-B9	Total/NA	Solid	8270C SIM	150311
720-54435-10	RL-B10	Total/NA	Solid	8270C SIM	150311
LCS 720-150311/26-A	Lab Control Sample	Total/NA	Solid	8270C SIM	150311
LCSD 720-150311/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	150311
MB 720-150311/1-A	Method Blank	Total/NA	Solid	8270C SIM	150311

Analysis Batch: 150344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-11	RL-B11	Total/NA	Solid	8270C SIM	150311
720-54435-12	RL-B12	Total/NA	Solid	8270C SIM	150311
720-54435-13	RL-B13	Total/NA	Solid	8270C SIM	150311

Prep Batch: 150688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-1	RL-B1	Total/NA	Solid	3546	
720-54435-2	RL-B2	Total/NA	Solid	3546	
720-54435-3	RL-B3	Total/NA	Solid	3546	
720-54435-3 MS	RL-B3	Total/NA	Solid	3546	
720-54435-3 MSD	RL-B3	Total/NA	Solid	3546	
720-54435-4	RL-B4	Total/NA	Solid	3546	
720-54435-5	RL-B5	Total/NA	Solid	3546	
720-54435-6	RL-B6	Total/NA	Solid	3546	
720-54435-7	RL-B7	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 150688 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-8	RL-B8	Total/NA	Solid	3546	
720-54435-15	RL-B15	Total/NA	Solid	3546	
720-54435-16	RL-B16	Total/NA	Solid	3546	
720-54435-17	RL-B17	Total/NA	Solid	3546	
LCS 720-150688/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-150688/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-150688/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 150752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-1	RL-B1	Total/NA	Solid	8270C SIM	150688
720-54435-2	RL-B2	Total/NA	Solid	8270C SIM	150688
720-54435-3	RL-B3	Total/NA	Solid	8270C SIM	150688
720-54435-3 MS	RL-B3	Total/NA	Solid	8270C SIM	150688
720-54435-3 MSD	RL-B3	Total/NA	Solid	8270C SIM	150688
720-54435-4	RL-B4	Total/NA	Solid	8270C SIM	150688
720-54435-5	RL-B5	Total/NA	Solid	8270C SIM	150688
720-54435-6	RL-B6	Total/NA	Solid	8270C SIM	150688
720-54435-7	RL-B7	Total/NA	Solid	8270C SIM	150688
720-54435-8	RL-B8	Total/NA	Solid	8270C SIM	150688
720-54435-15	RL-B15	Total/NA	Solid	8270C SIM	150688
720-54435-16	RL-B16	Total/NA	Solid	8270C SIM	150688
720-54435-17	RL-B17	Total/NA	Solid	8270C SIM	150688
LCS 720-150688/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	150688
LCSD 720-150688/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	150688
MB 720-150688/1-A	Method Blank	Total/NA	Solid	8270C SIM	150688

Analysis Batch: 150824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-14	RL-B14	Total/NA	Solid	8270C SIM	150311

GC Semi VOA

Analysis Batch: 150586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-1	RL-B1	Total/NA	Solid	8082	150662
720-54435-1 MS	RL-B1	Total/NA	Solid	8082	150662
720-54435-1 MSD	RL-B1	Total/NA	Solid	8082	150662
LCS 720-150662/2-A	Lab Control Sample	Total/NA	Solid	8082	150662
LCSD 720-150662/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	150662
MB 720-150662/1-A	Method Blank	Total/NA	Solid	8082	150662

Analysis Batch: 150591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-150611/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	150611
LCSD 720-150611/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	150611
MB 720-150611/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	150611

GC Semi VOA (Continued)

Prep Batch: 150611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-1	RL-B1	Silica Gel Cleanup	Solid	3546	
LCS 720-150611/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-150611/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-150611/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Prep Batch: 150662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-1	RL-B1	Total/NA	Solid	3546	
720-54435-1 MS	RL-B1	Total/NA	Solid	3546	
720-54435-1 MSD	RL-B1	Total/NA	Solid	3546	
LCS 720-150662/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-150662/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-150662/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 150673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-1	RL-B1	Silica Gel Cleanup	Solid	8015B	150611

Prep Batch: 150694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-2	RL-B2	Total/NA	Solid	3546	
720-54435-2 MS	RL-B2	Total/NA	Solid	3546	
720-54435-2 MSD	RL-B2	Total/NA	Solid	3546	
720-54435-3	RL-B3	Total/NA	Solid	3546	
720-54435-4	RL-B4	Total/NA	Solid	3546	
720-54435-5	RL-B5	Total/NA	Solid	3546	
720-54435-6	RL-B6	Total/NA	Solid	3546	
720-54435-7	RL-B7	Total/NA	Solid	3546	
720-54435-8	RL-B8	Total/NA	Solid	3546	
720-54435-9	RL-B9	Total/NA	Solid	3546	
720-54435-10	RL-B10	Total/NA	Solid	3546	
720-54435-11	RL-B11	Total/NA	Solid	3546	
720-54435-12	RL-B12	Total/NA	Solid	3546	
720-54435-13	RL-B13	Total/NA	Solid	3546	
720-54435-14	RL-B14	Total/NA	Solid	3546	
720-54435-15	RL-B15	Total/NA	Solid	3546	
720-54435-16	RL-B16	Total/NA	Solid	3546	
720-54435-17	RL-B17	Total/NA	Solid	3546	
LCS 720-150694/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-150694/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-150694/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 150695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-2	RL-B2	Silica Gel Cleanup	Solid	3546	
720-54435-3	RL-B3	Silica Gel Cleanup	Solid	3546	
720-54435-4	RL-B4	Silica Gel Cleanup	Solid	3546	
720-54435-4 MS	RL-B4	Silica Gel Cleanup	Solid	3546	
720-54435-4 MSD	RL-B4	Silica Gel Cleanup	Solid	3546	
720-54435-5	RL-B5	Silica Gel Cleanup	Solid	3546	
720-54435-6	RL-B6	Silica Gel Cleanup	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 150695 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-7	RL-B7	Silica Gel Cleanup	Solid	3546	
720-54435-8	RL-B8	Silica Gel Cleanup	Solid	3546	
720-54435-9	RL-B9	Silica Gel Cleanup	Solid	3546	
720-54435-10	RL-B10	Silica Gel Cleanup	Solid	3546	
720-54435-11	RL-B11	Silica Gel Cleanup	Solid	3546	
720-54435-12	RL-B12	Silica Gel Cleanup	Solid	3546	
720-54435-13	RL-B13	Silica Gel Cleanup	Solid	3546	
720-54435-14	RL-B14	Silica Gel Cleanup	Solid	3546	
720-54435-15	RL-B15	Silica Gel Cleanup	Solid	3546	
720-54435-16	RL-B16	Silica Gel Cleanup	Solid	3546	
720-54435-17	RL-B17	Silica Gel Cleanup	Solid	3546	
720-54435-18	TS3-S6(1.5)	Silica Gel Cleanup	Solid	3546	
720-54435-23	2-OWS-COMP	Silica Gel Cleanup	Solid	3546	
LCS 720-150695/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-150695/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-150695/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 150748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-2	RL-B2	Total/NA	Solid	8082	150694
720-54435-2 MS	RL-B2	Total/NA	Solid	8082	150694
720-54435-2 MSD	RL-B2	Total/NA	Solid	8082	150694
720-54435-3	RL-B3	Total/NA	Solid	8082	150694
720-54435-4	RL-B4	Total/NA	Solid	8082	150694
720-54435-5	RL-B5	Total/NA	Solid	8082	150694
720-54435-6	RL-B6	Total/NA	Solid	8082	150694
720-54435-7	RL-B7	Total/NA	Solid	8082	150694
720-54435-8	RL-B8	Total/NA	Solid	8082	150694
LCS 720-150694/2-A	Lab Control Sample	Total/NA	Solid	8082	150694
LCSD 720-150694/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	150694
MB 720-150694/1-A	Method Blank	Total/NA	Solid	8082	150694

Analysis Batch: 150749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-9	RL-B9	Total/NA	Solid	8082	150694
720-54435-10	RL-B10	Total/NA	Solid	8082	150694
720-54435-11	RL-B11	Total/NA	Solid	8082	150694
720-54435-12	RL-B12	Total/NA	Solid	8082	150694
720-54435-13	RL-B13	Total/NA	Solid	8082	150694
720-54435-14	RL-B14	Total/NA	Solid	8082	150694
720-54435-15	RL-B15	Total/NA	Solid	8082	150694
720-54435-16	RL-B16	Total/NA	Solid	8082	150694
720-54435-17	RL-B17	Total/NA	Solid	8082	150694

Analysis Batch: 150750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-2	RL-B2	Silica Gel Cleanup	Solid	8015B	150695
720-54435-5	RL-B5	Silica Gel Cleanup	Solid	8015B	150695
720-54435-6	RL-B6	Silica Gel Cleanup	Solid	8015B	150695
720-54435-7	RL-B7	Silica Gel Cleanup	Solid	8015B	150695
720-54435-13	RL-B13	Silica Gel Cleanup	Solid	8015B	150695

GC Semi VOA (Continued)

Analysis Batch: 150750 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-14	RL-B14	Silica Gel Cleanup	Solid	8015B	150695
720-54435-17	RL-B17	Silica Gel Cleanup	Solid	8015B	150695
720-54435-18	TS3-S6(1.5)	Silica Gel Cleanup	Solid	8015B	150695
720-54435-23	2-OWS-COMP	Silica Gel Cleanup	Solid	8015B	150695

Analysis Batch: 150756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-8	RL-B8	Silica Gel Cleanup	Solid	8015B	150695
720-54435-10	RL-B10	Silica Gel Cleanup	Solid	8015B	150695
720-54435-11	RL-B11	Silica Gel Cleanup	Solid	8015B	150695
LCS 720-150695/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	150695
LCSD 720-150695/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	150695
MB 720-150695/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	150695

Analysis Batch: 150757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-3	RL-B3	Silica Gel Cleanup	Solid	8015B	150695
720-54435-4	RL-B4	Silica Gel Cleanup	Solid	8015B	150695
720-54435-4 MS	RL-B4	Silica Gel Cleanup	Solid	8015B	150695
720-54435-4 MSD	RL-B4	Silica Gel Cleanup	Solid	8015B	150695
720-54435-12	RL-B12	Silica Gel Cleanup	Solid	8015B	150695
720-54435-15	RL-B15	Silica Gel Cleanup	Solid	8015B	150695
720-54435-16	RL-B16	Silica Gel Cleanup	Solid	8015B	150695

Analysis Batch: 150827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-9	RL-B9	Silica Gel Cleanup	Solid	8015B	150695

Metals

Prep Batch: 150309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-1	RL-B1	Total/NA	Solid	3050B	
720-54435-1 MS	RL-B1	Total/NA	Solid	3050B	
720-54435-1 MSD	RL-B1	Total/NA	Solid	3050B	
720-54435-2	RL-B2	Total/NA	Solid	3050B	
720-54435-3	RL-B3	Total/NA	Solid	3050B	
720-54435-4	RL-B4	Total/NA	Solid	3050B	
720-54435-5	RL-B5	Total/NA	Solid	3050B	
720-54435-6	RL-B6	Total/NA	Solid	3050B	
720-54435-7	RL-B7	Total/NA	Solid	3050B	
720-54435-8	RL-B8	Total/NA	Solid	3050B	
720-54435-9	RL-B9	Total/NA	Solid	3050B	
720-54435-10	RL-B10	Total/NA	Solid	3050B	
720-54435-11	RL-B11	Total/NA	Solid	3050B	
720-54435-12	RL-B12	Total/NA	Solid	3050B	
720-54435-13	RL-B13	Total/NA	Solid	3050B	
720-54435-14	RL-B14	Total/NA	Solid	3050B	
720-54435-15	RL-B15	Total/NA	Solid	3050B	
720-54435-16	RL-B16	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 150309 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-17	RL-B17	Total/NA	Solid	3050B	
720-54435-23	2-OWS-COMP	Total/NA	Solid	3050B	
LCS 720-150309/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-150309/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-150309/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 150393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-1	RL-B1	Total/NA	Solid	6010B	150309
720-54435-1 MS	RL-B1	Total/NA	Solid	6010B	150309
720-54435-1 MSD	RL-B1	Total/NA	Solid	6010B	150309
720-54435-2	RL-B2	Total/NA	Solid	6010B	150309
720-54435-3	RL-B3	Total/NA	Solid	6010B	150309
720-54435-4	RL-B4	Total/NA	Solid	6010B	150309
720-54435-5	RL-B5	Total/NA	Solid	6010B	150309
720-54435-6	RL-B6	Total/NA	Solid	6010B	150309
720-54435-7	RL-B7	Total/NA	Solid	6010B	150309
720-54435-8	RL-B8	Total/NA	Solid	6010B	150309
720-54435-9	RL-B9	Total/NA	Solid	6010B	150309
720-54435-10	RL-B10	Total/NA	Solid	6010B	150309
720-54435-11	RL-B11	Total/NA	Solid	6010B	150309
720-54435-12	RL-B12	Total/NA	Solid	6010B	150309
720-54435-13	RL-B13	Total/NA	Solid	6010B	150309
720-54435-14	RL-B14	Total/NA	Solid	6010B	150309
720-54435-15	RL-B15	Total/NA	Solid	6010B	150309
720-54435-16	RL-B16	Total/NA	Solid	6010B	150309
720-54435-17	RL-B17	Total/NA	Solid	6010B	150309
LCS 720-150309/2-A	Lab Control Sample	Total/NA	Solid	6010B	150309
LCSD 720-150309/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	150309
MB 720-150309/1-A	Method Blank	Total/NA	Solid	6010B	150309

Prep Batch: 150398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-23	2-OWS-COMP	Total/NA	Solid	7471A	
720-54435-23 MS	2-OWS-COMP	Total/NA	Solid	7471A	
720-54435-23 MSD	2-OWS-COMP	Total/NA	Solid	7471A	
LCS 720-150398/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-150398/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-150398/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 150544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-23	2-OWS-COMP	Total/NA	Solid	7471A	150398
720-54435-23 MS	2-OWS-COMP	Total/NA	Solid	7471A	150398
720-54435-23 MSD	2-OWS-COMP	Total/NA	Solid	7471A	150398
LCS 720-150398/2-A	Lab Control Sample	Total/NA	Solid	7471A	150398
LCSD 720-150398/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	150398
MB 720-150398/1-A	Method Blank	Total/NA	Solid	7471A	150398

Metals (Continued)

Analysis Batch: 150606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54435-1	RL-B1	Total/NA	Solid	6010B	150309
720-54435-2	RL-B2	Total/NA	Solid	6010B	150309
720-54435-3	RL-B3	Total/NA	Solid	6010B	150309
720-54435-4	RL-B4	Total/NA	Solid	6010B	150309
720-54435-5	RL-B5	Total/NA	Solid	6010B	150309
720-54435-6	RL-B6	Total/NA	Solid	6010B	150309
720-54435-7	RL-B7	Total/NA	Solid	6010B	150309
720-54435-8	RL-B8	Total/NA	Solid	6010B	150309
720-54435-9	RL-B9	Total/NA	Solid	6010B	150309
720-54435-10	RL-B10	Total/NA	Solid	6010B	150309
720-54435-11	RL-B11	Total/NA	Solid	6010B	150309
720-54435-12	RL-B12	Total/NA	Solid	6010B	150309
720-54435-13	RL-B13	Total/NA	Solid	6010B	150309
720-54435-14	RL-B14	Total/NA	Solid	6010B	150309
720-54435-15	RL-B15	Total/NA	Solid	6010B	150309
720-54435-16	RL-B16	Total/NA	Solid	6010B	150309
720-54435-17	RL-B17	Total/NA	Solid	6010B	150309
720-54435-23	2-OWS-COMP	Total/NA	Solid	6010B	150309

Analysis Batch: 150729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-150309/2-A	Lab Control Sample	Total/NA	Solid	6010B	150309
LCSD 720-150309/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	150309

Client Sample ID: RL-B1

Lab Sample ID: 720-54435-1

Date Collected: 12/17/13 11:25

Matrix: Solid

Date Received: 12/17/13 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			150688	12/24/13 10:08	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		10	150752	12/26/13 12:07	JZT	TAL PLS
Total/NA	Prep	3546			150662	12/23/13 19:57	DFR	TAL PLS
Total/NA	Analysis	8082		1	150586	12/23/13 23:55	DCH	TAL PLS
Silica Gel Cleanup	Prep	3546			150611	12/23/13 11:22	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	150673	12/24/13 20:17	DCH	TAL PLS
Total/NA	Prep	3050B			150309	12/17/13 21:42	CTD	TAL PLS
Total/NA	Analysis	6010B		4	150393	12/18/13 18:45	SLK	TAL PLS
Total/NA	Analysis	6010B		1	150606	12/21/13 21:22	CAM	TAL PLS

Client Sample ID: RL-B2

Lab Sample ID: 720-54435-2

Date Collected: 12/17/13 11:30

Matrix: Solid

Date Received: 12/17/13 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			150688	12/24/13 10:08	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		10	150752	12/26/13 12:30	JZT	TAL PLS
Total/NA	Prep	3546			150694	12/24/13 10:39	DFR	TAL PLS
Total/NA	Analysis	8082		1	150748	12/26/13 09:47	DCH	TAL PLS
Silica Gel Cleanup	Prep	3546			150695	12/24/13 10:41	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	150750	12/26/13 23:52	DCH	TAL PLS
Total/NA	Analysis	6010B		4	150393	12/18/13 19:02	SLK	TAL PLS
Total/NA	Prep	3050B			150309	12/17/13 21:42	CTD	TAL PLS
Total/NA	Analysis	6010B		1	150606	12/21/13 21:27	CAM	TAL PLS

Client Sample ID: RL-B3

Lab Sample ID: 720-54435-3

Date Collected: 12/17/13 11:35

Matrix: Solid

Date Received: 12/17/13 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			150688	12/24/13 10:08	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		50	150752	12/26/13 19:49	JZT	TAL PLS
Total/NA	Prep	3546			150694	12/24/13 10:39	DFR	TAL PLS
Total/NA	Analysis	8082		10	150748	12/26/13 12:17	DCH	TAL PLS
Silica Gel Cleanup	Prep	3546			150695	12/24/13 10:41	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	150757	12/26/13 19:18	JL	TAL PLS
Total/NA	Prep	3050B			150309	12/17/13 21:42	CTD	TAL PLS
Total/NA	Analysis	6010B		4	150393	12/18/13 19:15	SLK	TAL PLS
Total/NA	Analysis	6010B		1	150606	12/21/13 21:31	CAM	TAL PLS

Client Sample ID: RL-B4

Lab Sample ID: 720-54435-4

Date Collected: 12/17/13 11:40

Matrix: Solid

Date Received: 12/17/13 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			150688	12/24/13 10:08	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		5	150752	12/26/13 19:26	JZT	TAL PLS
Total/NA	Prep	3546			150694	12/24/13 10:39	DFR	TAL PLS
Total/NA	Analysis	8082		1	150748	12/26/13 10:21	DCH	TAL PLS
Silica Gel Cleanup	Prep	3546			150695	12/24/13 10:41	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	150757	12/26/13 14:25	JL	TAL PLS
Total/NA	Analysis	6010B		4	150393	12/18/13 19:19	SLK	TAL PLS
Total/NA	Prep	3050B			150309	12/17/13 21:42	CTD	TAL PLS
Total/NA	Analysis	6010B		1	150606	12/21/13 21:35	CAM	TAL PLS

Client Sample ID: RL-B5

Lab Sample ID: 720-54435-5

Date Collected: 12/17/13 11:45

Matrix: Solid

Date Received: 12/17/13 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			150688	12/24/13 10:08	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		10	150752	12/26/13 13:40	JZT	TAL PLS
Total/NA	Prep	3546			150694	12/24/13 10:39	DFR	TAL PLS
Total/NA	Analysis	8082		1	150748	12/26/13 10:37	DCH	TAL PLS
Silica Gel Cleanup	Prep	3546			150695	12/24/13 10:41	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	150750	12/26/13 23:28	DCH	TAL PLS
Total/NA	Prep	3050B			150309	12/17/13 21:42	CTD	TAL PLS
Total/NA	Analysis	6010B		4	150393	12/18/13 19:23	SLK	TAL PLS
Total/NA	Analysis	6010B		1	150606	12/21/13 21:40	CAM	TAL PLS

Client Sample ID: RL-B6

Lab Sample ID: 720-54435-6

Date Collected: 12/17/13 11:48

Matrix: Solid

Date Received: 12/17/13 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			150688	12/24/13 10:08	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		10	150752	12/26/13 14:03	JZT	TAL PLS
Total/NA	Prep	3546			150694	12/24/13 10:39	DFR	TAL PLS
Total/NA	Analysis	8082		1	150748	12/26/13 10:54	DCH	TAL PLS
Silica Gel Cleanup	Prep	3546			150695	12/24/13 10:41	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	150750	12/26/13 21:49	DCH	TAL PLS
Total/NA	Prep	3050B			150309	12/17/13 21:42	CTD	TAL PLS
Total/NA	Analysis	6010B		4	150393	12/18/13 19:28	SLK	TAL PLS
Total/NA	Analysis	6010B		1	150606	12/21/13 21:44	CAM	TAL PLS

Client Sample ID: RL-B7

Lab Sample ID: 720-54435-7

Date Collected: 12/17/13 11:51

Matrix: Solid

Date Received: 12/17/13 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			150688	12/24/13 10:08	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		10	150752	12/26/13 14:26	JZT	TAL PLS
Total/NA	Prep	3546			150694	12/24/13 10:39	DFR	TAL PLS
Total/NA	Analysis	8082		1	150748	12/26/13 11:11	DCH	TAL PLS
Silica Gel Cleanup	Prep	3546			150695	12/24/13 10:41	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	150750	12/26/13 22:14	DCH	TAL PLS
Total/NA	Analysis	6010B		4	150393	12/18/13 19:32	SLK	TAL PLS
Total/NA	Prep	3050B			150309	12/17/13 21:42	CTD	TAL PLS
Total/NA	Analysis	6010B		1	150606	12/21/13 21:48	CAM	TAL PLS

Client Sample ID: RL-B8

Lab Sample ID: 720-54435-8

Date Collected: 12/17/13 11:55

Matrix: Solid

Date Received: 12/17/13 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			150688	12/24/13 10:08	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		5	150752	12/26/13 14:49	JZT	TAL PLS
Total/NA	Prep	3546			150694	12/24/13 10:39	DFR	TAL PLS
Total/NA	Analysis	8082		1	150748	12/26/13 11:27	DCH	TAL PLS
Silica Gel Cleanup	Prep	3546			150695	12/24/13 10:41	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	150756	12/27/13 01:36	DCH	TAL PLS
Total/NA	Analysis	6010B		4	150393	12/18/13 19:37	SLK	TAL PLS
Total/NA	Prep	3050B			150309	12/17/13 21:42	CTD	TAL PLS
Total/NA	Analysis	6010B		1	150606	12/21/13 21:53	CAM	TAL PLS

Client Sample ID: RL-B9

Lab Sample ID: 720-54435-9

Date Collected: 12/17/13 12:00

Matrix: Solid

Date Received: 12/17/13 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			150311	12/17/13 21:51	DFR	TAL PLS
Total/NA	Analysis	8270C SIM		2	150342	12/18/13 16:37	MQL	TAL PLS
Total/NA	Prep	3546			150694	12/24/13 10:39	DFR	TAL PLS
Total/NA	Analysis	8082		1	150749	12/26/13 09:31	DCH	TAL PLS
Silica Gel Cleanup	Prep	3546			150695	12/24/13 10:41	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	150827	12/27/13 12:21	DCH	TAL PLS
Total/NA	Prep	3050B			150309	12/17/13 21:42	CTD	TAL PLS
Total/NA	Analysis	6010B		4	150393	12/18/13 19:41	SLK	TAL PLS
Total/NA	Analysis	6010B		1	150606	12/21/13 22:06	CAM	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: RL-B10

Lab Sample ID: 720-54435-10

Date Collected: 12/17/13 12:03
Date Received: 12/17/13 14:45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			150311	12/17/13 21:51	DFR	TAL PLS
Total/NA	Analysis	8270C SIM		2	150342	12/18/13 17:00	MQL	TAL PLS
Total/NA	Prep	3546			150694	12/24/13 10:39	DFR	TAL PLS
Total/NA	Analysis	8082		1	150749	12/26/13 09:47	DCH	TAL PLS
Silica Gel Cleanup	Prep	3546			150695	12/24/13 10:41	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	150756	12/27/13 02:33	DCH	TAL PLS
Total/NA	Prep	3050B			150309	12/17/13 21:42	CTD	TAL PLS
Total/NA	Analysis	6010B		4	150393	12/18/13 19:45	SLK	TAL PLS
Total/NA	Analysis	6010B		1	150606	12/21/13 22:10	CAM	TAL PLS

Client Sample ID: RL-B11

Lab Sample ID: 720-54435-11

Date Collected: 12/17/13 00:00
Date Received: 12/17/13 14:45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			150311	12/17/13 21:51	DFR	TAL PLS
Total/NA	Analysis	8270C SIM		1	150344	12/18/13 16:41	MQL	TAL PLS
Total/NA	Prep	3546			150694	12/24/13 10:39	DFR	TAL PLS
Total/NA	Analysis	8082		1	150749	12/26/13 10:04	DCH	TAL PLS
Silica Gel Cleanup	Prep	3546			150695	12/24/13 10:41	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	150756	12/26/13 16:22	DCH	TAL PLS
Total/NA	Analysis	6010B		4	150393	12/18/13 19:50	SLK	TAL PLS
Total/NA	Prep	3050B			150309	12/17/13 21:42	CTD	TAL PLS
Total/NA	Analysis	6010B		1	150606	12/21/13 22:14	CAM	TAL PLS

Client Sample ID: RL-B12

Lab Sample ID: 720-54435-12

Date Collected: 12/17/13 00:00
Date Received: 12/17/13 14:45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			150311	12/17/13 21:51	DFR	TAL PLS
Total/NA	Analysis	8270C SIM		1	150344	12/18/13 17:02	MQL	TAL PLS
Total/NA	Prep	3546			150694	12/24/13 10:39	DFR	TAL PLS
Total/NA	Analysis	8082		1	150749	12/26/13 10:21	DCH	TAL PLS
Silica Gel Cleanup	Prep	3546			150695	12/24/13 10:41	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	150757	12/26/13 17:21	JL	TAL PLS
Total/NA	Prep	3050B			150309	12/17/13 21:42	CTD	TAL PLS
Total/NA	Analysis	6010B		4	150393	12/18/13 19:54	SLK	TAL PLS
Total/NA	Analysis	6010B		1	150606	12/21/13 22:18	CAM	TAL PLS

Client Sample ID: RL-B13

Lab Sample ID: 720-54435-13

Date Collected: 12/17/13 00:00

Matrix: Solid

Date Received: 12/17/13 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			150311	12/17/13 21:51	DFR	TAL PLS
Total/NA	Analysis	8270C SIM		10	150344	12/18/13 17:43	MQL	TAL PLS
Total/NA	Prep	3546			150694	12/24/13 10:39	DFR	TAL PLS
Total/NA	Analysis	8082		1	150749	12/26/13 10:37	DCH	TAL PLS
Silica Gel Cleanup	Prep	3546			150695	12/24/13 10:41	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	150750	12/26/13 22:38	DCH	TAL PLS
Total/NA	Analysis	6010B		4	150393	12/18/13 20:07	SLK	TAL PLS
Total/NA	Prep	3050B			150309	12/17/13 21:42	CTD	TAL PLS
Total/NA	Analysis	6010B		1	150606	12/21/13 22:23	CAM	TAL PLS

Client Sample ID: RL-B14

Lab Sample ID: 720-54435-14

Date Collected: 12/17/13 00:00

Matrix: Solid

Date Received: 12/17/13 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			150311	12/17/13 21:51	DFR	TAL PLS
Total/NA	Analysis	8270C SIM		5	150824	12/27/13 14:59	JZT	TAL PLS
Total/NA	Prep	3546			150694	12/24/13 10:39	DFR	TAL PLS
Total/NA	Analysis	8082		1	150749	12/26/13 10:54	DCH	TAL PLS
Silica Gel Cleanup	Prep	3546			150695	12/24/13 10:41	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	150750	12/26/13 23:03	DCH	TAL PLS
Total/NA	Prep	3050B			150309	12/17/13 21:42	CTD	TAL PLS
Total/NA	Analysis	6010B		4	150393	12/18/13 20:11	SLK	TAL PLS
Total/NA	Analysis	6010B		1	150606	12/21/13 22:27	CAM	TAL PLS

Client Sample ID: RL-B15

Lab Sample ID: 720-54435-15

Date Collected: 12/17/13 00:00

Matrix: Solid

Date Received: 12/17/13 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			150688	12/24/13 10:08	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		1	150752	12/26/13 15:12	JZT	TAL PLS
Total/NA	Prep	3546			150694	12/24/13 10:39	DFR	TAL PLS
Total/NA	Analysis	8082		1	150749	12/26/13 11:11	DCH	TAL PLS
Silica Gel Cleanup	Prep	3546			150695	12/24/13 10:41	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	150757	12/26/13 16:22	JL	TAL PLS
Total/NA	Prep	3050B			150309	12/17/13 21:42	CTD	TAL PLS
Total/NA	Analysis	6010B		4	150393	12/18/13 20:16	SLK	TAL PLS
Total/NA	Analysis	6010B		1	150606	12/21/13 22:31	CAM	TAL PLS

Client Sample ID: RL-B16

Lab Sample ID: 720-54435-16

Date Collected: 12/17/13 00:00

Matrix: Solid

Date Received: 12/17/13 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			150688	12/24/13 10:08	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		5	150752	12/26/13 15:35	JZT	TAL PLS
Total/NA	Prep	3546			150694	12/24/13 10:39	DFR	TAL PLS
Total/NA	Analysis	8082		1	150749	12/26/13 11:27	DCH	TAL PLS
Silica Gel Cleanup	Prep	3546			150695	12/24/13 10:41	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	150757	12/26/13 16:52	JL	TAL PLS
Total/NA	Analysis	6010B		4	150393	12/18/13 20:20	SLK	TAL PLS
Total/NA	Prep	3050B			150309	12/17/13 21:42	CTD	TAL PLS
Total/NA	Analysis	6010B		1	150606	12/21/13 22:36	CAM	TAL PLS

Client Sample ID: RL-B17

Lab Sample ID: 720-54435-17

Date Collected: 12/17/13 00:00

Matrix: Solid

Date Received: 12/17/13 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			150688	12/24/13 10:08	NVP	TAL PLS
Total/NA	Analysis	8270C SIM		10	150752	12/26/13 15:58	JZT	TAL PLS
Total/NA	Prep	3546			150694	12/24/13 10:39	DFR	TAL PLS
Total/NA	Analysis	8082		1	150749	12/26/13 11:44	DCH	TAL PLS
Silica Gel Cleanup	Prep	3546			150695	12/24/13 10:41	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	150750	12/26/13 21:24	DCH	TAL PLS
Total/NA	Analysis	6010B		4	150393	12/18/13 20:24	SLK	TAL PLS
Total/NA	Prep	3050B			150309	12/17/13 21:42	CTD	TAL PLS
Total/NA	Analysis	6010B		1	150606	12/21/13 22:40	CAM	TAL PLS

Client Sample ID: TS3-S6(1.5)

Lab Sample ID: 720-54435-18

Date Collected: 12/17/13 00:00

Matrix: Solid

Date Received: 12/17/13 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			150695	12/24/13 10:41	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	150750	12/27/13 00:17	DCH	TAL PLS

Client Sample ID: 2-OWS-COMP

Lab Sample ID: 720-54435-23

Date Collected: 12/17/13 11:00

Matrix: Solid

Date Received: 12/17/13 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			150506	12/20/13 10:17	PDR	TAL PLS
Total/NA	Analysis	8260B		1	150498	12/20/13 17:25	PDR	TAL PLS
Silica Gel Cleanup	Prep	3546			150695	12/24/13 10:41	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	150750	12/27/13 01:06	DCH	TAL PLS
Total/NA	Prep	7471A			150398	12/18/13 20:57	JCR	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Client Sample ID: 2-OWS-COMP — **Lab Sample ID: 720-54435-23**

Date Collected: 12/17/13 11:00 — **Matrix: Solid**

Date Received: 12/17/13 14:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471A		1	150544	12/20/13 17:10	EFH	TAL PLS
Total/NA	Prep	3050B			150309	12/17/13 22:27	CTD	TAL PLS
Total/NA	Analysis	6010B		1	150606	12/21/13 21:18	CAM	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54435-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-54435-1	RL-B1	Solid	12/17/13 11:25	12/17/13 14:45
720-54435-2	RL-B2	Solid	12/17/13 11:30	12/17/13 14:45
720-54435-3	RL-B3	Solid	12/17/13 11:35	12/17/13 14:45
720-54435-4	RL-B4	Solid	12/17/13 11:40	12/17/13 14:45
720-54435-5	RL-B5	Solid	12/17/13 11:45	12/17/13 14:45
720-54435-6	RL-B6	Solid	12/17/13 11:48	12/17/13 14:45
720-54435-7	RL-B7	Solid	12/17/13 11:51	12/17/13 14:45
720-54435-8	RL-B8	Solid	12/17/13 11:55	12/17/13 14:45
720-54435-9	RL-B9	Solid	12/17/13 12:00	12/17/13 14:45
720-54435-10	RL-B10	Solid	12/17/13 12:03	12/17/13 14:45
720-54435-11	RL-B11	Solid	12/17/13 00:00	12/17/13 14:45
720-54435-12	RL-B12	Solid	12/17/13 00:00	12/17/13 14:45
720-54435-13	RL-B13	Solid	12/17/13 00:00	12/17/13 14:45
720-54435-14	RL-B14	Solid	12/17/13 00:00	12/17/13 14:45
720-54435-15	RL-B15	Solid	12/17/13 00:00	12/17/13 14:45
720-54435-16	RL-B16	Solid	12/17/13 00:00	12/17/13 14:45
720-54435-17	RL-B17	Solid	12/17/13 00:00	12/17/13 14:45
720-54435-18	TS3-S6(1.5)	Solid	12/17/13 00:00	12/17/13 14:45
720-54435-23	2-OWS-COMP	Solid	12/17/13 11:00	12/17/13 14:45

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 Fax: (925) 600-3002

720-54435

Reference #: 150739

Date 12/17/13 Page 1 of 3

12/27/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St. Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT
Attn: Accounts Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA (PAH's) by ☐ 8270C ☒ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 (PCBs) ☒ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☒ Other: Pb, Cd, Cr, Ni, Zn	Metals: ☐ 6020 ☐ 200.8 (ICP-MS)	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
RL-B1	12/17/13	1125	Soil	Ice				X		X		X		X												1
RL-B2		1130						X		X		X		X												1
RL-B3		1135						X		X		X		X												1
RL-B4		1140						X		X		X		X												1
RL-B5		1145						X		X		X		X												1
RL-B6		1148						X		X		X		X												1
RL-B7		1151						X		X		X		X												1
RL-B8		1155						X		X		X		X												1
RL-B9		1200						X		X		X		X												1
RL-B10		1203						X		X		X		X												1

720-54435 Chain of Custody

Page 87 of 90

Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: #39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 1.8°C

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: 1445 Time	Signature Time	Signature Time
Printed Name: Vincent Tilotta Date: 12/17/13	Printed Name Date	Printed Name Date
Company: Haley & Aldrich	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature: 1445 Time	Signature Time	Signature Time
Printed Name: T. Bullock Date: 12/17/13	Printed Name Date	Printed Name Date
Company: TAP	Company	Company

Rev.10/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone (925) 484-1919 Fax: (925) 600-3002

Reference #: 150739

Date 12/17/13 Page 2 of 3

12/27/2013

TO: 54435

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St., Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT, BT
Attn: Accounts Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8016B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNAs (PAH's) by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides (PCBs) ☐ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA Other (Sb, Cd, Cr, Ni, Zn)	Metals: ☐ 6020 ☐ 200.8 (ICP-MS)	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
RL-B11	12/17/13		Soil	Ice				X		X		X		X												1
RL-B12								X		X		X		X												1
RL-B13								X		X		X		X												1
RL-B14								X		X		X		X												1
RL-B15								X		X		X		X												1
RL-B16								X		X		X		X												1
RL-B17								X		X		X		X												1
TS3-S6(1.5)	12/17/13		Soil	Ice				X																		1

Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: #39792
Credit Card Y/N:

Sample Receipt

of Containers:
Head Space:
Temp:
If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1445	Signature: Time:	Signature: Time:
Printed Name: Vincent Tibbetts Date: 12/17/13	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1445	Signature: Time:	Signature: Time:
Printed Name: T Bullock Date: 12/17/13	Printed Name: Date:	Printed Name: Date:
Company: [signature]	Company:	Company:

Rev.10/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-6002

Reference #: 150739
720-54435
Date 12/17/13 Page 3 of 3

12/27/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St. Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT, BS
Attn: Accounts Payable
Phone: 925-357-7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☒ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other. ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Please make 4-Jars COMPOSITE		Number of Containers
2-GWS-Comp	12/17/13	1100	Soil	Ice	X		X	X					X											X		4

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Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: #39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp:

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1445	Signature: Time:	Signature: Time:
Printed Name: Vincent Tilotta Date: 12/17/13	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1445	Signature: Time:	Signature: Time:
Printed Name: T Bullock Date: 12/17/13	Printed Name: Date:	Printed Name: Date:
Company: TA P	Company:	Company:

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-54435-1

Login Number: 54435

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 720-54453-1

Job Description: PG & E Former N. Beach

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, CA 94596

Attention: Kristin Guthrie

Preliminary Data

Designee for
Dimple Sharma, Senior Project Manager
1220 Quarry Lane, Pleasanton, CA, 94566
dimple.sharma@testamericainc.com
12/26/2013

cc: Pam Minor

CA ELAP Certification # 2496
The Chain(s) of Custody are included and are an integral part of this report.
The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.
A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

Comments
No additional comments.

Receipt
The samples were received on 12/18/2013 2:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3º C.

Except:

Did not receive a container for metal analysis. Split off from one of the ambers and preserved for metals.

All 3 voas received with reportable headspace.

GC/MS VOA
Method(s) 8260B: The instrument stopped due to an error, no parent sample for MS/SD was run. An LCS/LCSD set was analyzed for precision data.

Method(s) 8260B: The following volatiles sample 54453-1 was diluted due to foaming at the time of purging during the original sample analysis. Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch #150436 recovered outside control limits for the following analytes: 2,4-dinitrotoluene; 4-nitroaniline; benzo[k]fluoranthene; di-n-butyl phthalate; fluoranthene. There was insufficient sample to perform a re-extraction or re-analysis; therefore, the data have been reported.

Method(s) 8270C: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: IDW-H2O-121813 (720-54453-1), IDW-SO-121813 (720-54453-2).

Method(s) 8270C: The following sample(s) was diluted due to the abundance of non-target analytes: IDW-H2O-121813 (720-54453-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: IDW-SO-121813 (720-54453-2).

No other analytical or quality issues were noted.

Metals
Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 150443 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010B: The following sample(s) was diluted due to the abundance of non-target analyte Fe: IDW-SO-121813 (720-54453-2). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 150566 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Preliminary Data

EXECUTIVE SUMMARY - Detections

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
720-54453-1	**IDW-H2O-121813**					
Naphthalene		14		10	ug/L	8260B/CA_LUFTMS
Phenanthrene		110		47	ug/L	8270C
Fluoranthene		150	*	47	ug/L	8270C
Pyrene		240		47	ug/L	8270C
Chrysene		130		47	ug/L	8270C
Benzo[k]fluoranthene		69	*	47	ug/L	8270C
Diesel Range Organics [C10-C28]		2600		50	ug/L	8015B
Motor Oil Range Organics [C24-C36]		1800		100	ug/L	8015B
Arsenic		24		10	ug/L	6010B
Barium		240		5.0	ug/L	6010B
Chromium		66		10	ug/L	6010B
Cobalt		14		2.0	ug/L	6010B
Copper		120		20	ug/L	6010B
Lead		870		5.0	ug/L	6010B
Nickel		61		10	ug/L	6010B
Vanadium		44		10	ug/L	6010B
Zinc		530		20	ug/L	6010B
Mercury		1.6		0.20	ug/L	7470A
720-54453-2	**IDW-SO-121813**					
Naphthalene		0.096		0.048	mg/Kg	8260B
Naphthalene		23		6.6	mg/Kg	8270C
2-Methylnaphthalene		12		6.6	mg/Kg	8270C
Phenanthrene		110		6.6	mg/Kg	8270C
Anthracene		6.9		6.6	mg/Kg	8270C
Fluoranthene		71		6.6	mg/Kg	8270C
Pyrene		130		6.6	mg/Kg	8270C
Benzo[a]anthracene		47		33	mg/Kg	8270C
Chrysene		68		6.6	mg/Kg	8270C
Benzo[b]fluoranthene		30		6.6	mg/Kg	8270C
Benzo[a]pyrene		11		6.6	mg/Kg	8270C
Benzo[k]fluoranthene		42		6.6	mg/Kg	8270C
Indeno[1,2,3-cd]pyrene		21		6.6	mg/Kg	8270C
Benzo[g,h,i]perylene		19		6.6	mg/Kg	8270C
Dibenz(a,h)anthracene		7.5		6.6	mg/Kg	8270C
Diesel Range Organics [C10-C28]		1300		20	mg/Kg	8015B
Motor Oil Range Organics [C24-C36]		1500		990	mg/Kg	8015B
Arsenic		14		3.6	mg/Kg	6010B
Barium		130		1.8	mg/Kg	6010B
Chromium		46		1.8	mg/Kg	6010B
Cobalt		7.8		0.72	mg/Kg	6010B
Copper		41		5.4	mg/Kg	6010B
Lead		180		1.8	mg/Kg	6010B
Nickel		46		1.8	mg/Kg	6010B
Vanadium		40		1.8	mg/Kg	6010B

Preliminary Data

EXECUTIVE SUMMARY - Detections

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
Zinc		160		5.4	mg/Kg	6010B
Mercury		0.39		0.0098	mg/Kg	7471A
Cyanide, Total		12		0.50	mg/Kg	9012A
STLC Citrate						
Lead		15		0.050	mg/L	6010B
TCLP						
Lead		0.18		0.050	mg/L	6010B

Preliminary Data

METHOD SUMMARY

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL PLS	SW846 8260B	
Purge and Trap	TAL PLS		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL PLS	SW846 8270C	
Microwave Extraction	TAL PLS		SW846 3546
Diesel Range Organics (DRO) (GC)	TAL PLS	SW846 8015B	
Microwave Extraction	TAL PLS		SW846 3546
Metals (ICP)	TAL PLS	SW846 6010B	
Preparation, Metals	TAL PLS		SW846 3050B
Metals (ICP)	TAL PLS	SW846 6010B	
TCLP Extraction	TAL PLS		SW846 1311
Preparation, Total Metals	TAL PLS		SW846 3010A
Metals (ICP)	TAL PLS	SW846 6010B	
California - Waste Extraction Test with Citrate Leach	TAL PLS		CA-WET CA WET Citrate
Preparation, Total Recoverable or Dissolved Metals	TAL PLS		SW846 3005A
Mercury (CVAA)	TAL PLS	SW846 7471A	
Preparation, Mercury	TAL PLS		SW846 7471A
Cyanide, Total and/or Amenable	TAL EDI	SW846 9012A	
Cyanide, Total and/or Amenable, Distillation	TAL EDI		SW846 9012A
Matrix: Water			
8260B / CA LUFT MS	TAL PLS	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL PLS		SW846 5030B
Semivolatile Organic Compounds (GC/MS)	TAL PLS	SW846 8270C	
Liquid-Liquid Extraction (Separatory Funnel)	TAL PLS		SW846 3510C
Diesel Range Organics (DRO) (GC)	TAL PLS	SW846 8015B	
Liquid-Liquid Extraction (Separatory Funnel)	TAL PLS		SW846 3510C
Metals (ICP)	TAL PLS	SW846 6010B	
Preparation, Total Metals	TAL PLS		SW846 3010A
Mercury (CVAA)	TAL PLS	SW846 7470A	
Preparation, Mercury	TAL PLS		SW846 7470A

Lab References:

TAL EDI = TestAmerica Edison

TAL PLS = TestAmerica Pleasanton

Method References:

CA-WET = California Waste Extraction Test, from Title 22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Preliminary Data

SAMPLE SUMMARY

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-54453-1	IDW-H2O-121813	Water	12/18/2013 1000	12/18/2013 1445
720-54453-2	IDW-SO-121813	Solid	12/18/2013 0950	12/18/2013 1445

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Client Sample ID: **IDW-SO-121813**

Lab Sample ID: 720-54453-2 Date Sampled: 12/18/2013 0950
Client Matrix: Solid Date Received: 12/18/2013 1445

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	720-150462	Instrument ID:	HP7
Prep Method:	5030B	Prep Batch:	720-150482	Lab File ID:	12191335.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	12/20/2013 0006			Final Weight/Volume:	10 mL
Prep Date:	12/19/2013 2023				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		0.024
Acetone		ND		0.24
Benzene		ND		0.024
Dichlorobromomethane		ND		0.024
Bromobenzene		ND		0.024
Chlorobromomethane		ND		0.095
Bromoform		ND		0.024
Bromomethane		ND		0.048
2-Butanone (MEK)		ND		0.24
n-Butylbenzene		ND		0.024
sec-Butylbenzene		ND		0.024
tert-Butylbenzene		ND		0.024
Carbon disulfide		ND		0.024
Carbon tetrachloride		ND		0.024
Chlorobenzene		ND		0.024
Chloroethane		ND		0.048
Chloroform		ND		0.024
Chloromethane		ND		0.048
2-Chlorotoluene		ND		0.024
4-Chlorotoluene		ND		0.024
Chlorodibromomethane		ND		0.024
1,2-Dichlorobenzene		ND		0.024
1,3-Dichlorobenzene		ND		0.024
1,4-Dichlorobenzene		ND		0.024
1,3-Dichloropropane		ND		0.024
1,1-Dichloropropene		ND		0.024
1,2-Dibromo-3-Chloropropane		ND		0.024
Ethylene Dibromide		ND		0.024
Dibromomethane		ND		0.048
Dichlorodifluoromethane		ND		0.048
1,1-Dichloroethane		ND		0.024
1,2-Dichloroethane		ND		0.024
1,1-Dichloroethene		ND		0.024
cis-1,2-Dichloroethene		ND		0.024
trans-1,2-Dichloroethene		ND		0.024
1,2-Dichloropropane		ND		0.024
cis-1,3-Dichloropropene		ND		0.024
trans-1,3-Dichloropropene		ND		0.024
Ethylbenzene		ND		0.024
Hexachlorobutadiene		ND		0.024
2-Hexanone		ND		0.24
Isopropylbenzene		ND		0.024
4-Isopropyltoluene		ND		0.024
Methylene Chloride		ND		0.048
4-Methyl-2-pentanone (MIBK)		ND		0.24
Naphthalene		0.096		0.048

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Client Sample ID: **IDW-SO-121813**

Lab Sample ID: 720-54453-2 Date Sampled: 12/18/2013 0950
Client Matrix: Solid Date Received: 12/18/2013 1445

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	720-150462	Instrument ID:	HP7
Prep Method:	5030B	Prep Batch:	720-150482	Lab File ID:	12191335.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	12/20/2013 0006			Final Weight/Volume:	10 mL
Prep Date:	12/19/2013 2023				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
N-Propylbenzene		ND		0.024
Styrene		ND		0.024
1,1,1,2-Tetrachloroethane		ND		0.024
1,1,2,2-Tetrachloroethane		ND		0.024
Tetrachloroethene		ND		0.024
Toluene		ND		0.024
1,2,3-Trichlorobenzene		ND		0.024
1,2,4-Trichlorobenzene		ND		0.024
1,1,1-Trichloroethane		ND		0.024
1,1,2-Trichloroethane		ND		0.024
Trichloroethene		ND		0.024
Trichlorofluoromethane		ND		0.024
1,2,3-Trichloropropane		ND		0.024
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		0.024
1,2,4-Trimethylbenzene		ND		0.024
1,3,5-Trimethylbenzene		ND		0.024
Vinyl acetate		ND		0.24
Vinyl chloride		ND		0.024
Xylenes, Total		ND		0.048
2,2-Dichloropropane		ND		0.024
Gasoline Range Organics (GRO)-C5-C12		ND		1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	83		45 - 131
1,2-Dichloroethane-d4 (Surr)	102		60 - 140
Toluene-d8 (Surr)	89		58 - 140

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Client Sample ID: **IDW-H2O-121813**

Lab Sample ID: 720-54453-1 Date Sampled: 12/18/2013 1000
Client Matrix: Water Date Received: 12/18/2013 1445

8260B/CA_LUFTMS 8260B / CA LUFT MS

Analysis Method:	8260B/CA_LUFTMS	Analysis Batch:	720-150527	Instrument ID:	HP4
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	121913021.D
Dilution:	10			Initial Weight/Volume:	10 mL
Analysis Date:	12/20/2013 1913			Final Weight/Volume:	10 mL
Prep Date:	12/20/2013 1913				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		500
Benzene	ND		5.0
Dichlorobromomethane	ND		5.0
Bromobenzene	ND		10
Chlorobromomethane	ND		10
Bromoform	ND		10
Bromomethane	ND		10
2-Butanone (MEK)	ND		500
n-Butylbenzene	ND		10
sec-Butylbenzene	ND		10
tert-Butylbenzene	ND		10
Carbon disulfide	ND		50
Carbon tetrachloride	ND		5.0
Chlorobenzene	ND		5.0
Chloroethane	ND		10
Chloroform	ND		10
Chloromethane	ND		10
2-Chlorotoluene	ND		5.0
4-Chlorotoluene	ND		5.0
Chlorodibromomethane	ND		5.0
1,2-Dichlorobenzene	ND		5.0
1,3-Dichlorobenzene	ND		5.0
1,4-Dichlorobenzene	ND		5.0
1,3-Dichloropropane	ND		10
1,1-Dichloropropene	ND		5.0
1,2-Dibromo-3-Chloropropane	ND		10
Ethylene Dibromide	ND		5.0
Dibromomethane	ND		5.0
Dichlorodifluoromethane	ND		5.0
1,1-Dichloroethane	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1-Dichloroethene	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
1,2-Dichloropropane	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Ethylbenzene	ND		5.0
Hexachlorobutadiene	ND		10
2-Hexanone	ND		500
Isopropylbenzene	ND		5.0
4-Isopropyltoluene	ND		10
Methylene Chloride	ND		50
4-Methyl-2-pentanone (MIBK)	ND		500
Naphthalene	14		10

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Client Sample ID: **IDW-H2O-121813**

Lab Sample ID: 720-54453-1 Date Sampled: 12/18/2013 1000
Client Matrix: Water Date Received: 12/18/2013 1445

8260B/CA_LUFTMS 8260B / CA LUFT MS

Analysis Method:	8260B/CA_LUFTMS	Analysis Batch:	720-150527	Instrument ID:	HP4
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	121913021.D
Dilution:	10			Initial Weight/Volume:	10 mL
Analysis Date:	12/20/2013 1913			Final Weight/Volume:	10 mL
Prep Date:	12/20/2013 1913				

Analyte	Result (ug/L)	Qualifier	RL
N-Propylbenzene	ND		10
Styrene	ND		5.0
1,1,1,2-Tetrachloroethane	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Tetrachloroethene	ND		5.0
Toluene	ND		5.0
1,2,3-Trichlorobenzene	ND		10
1,2,4-Trichlorobenzene	ND		10
1,1,1-Trichloroethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Trichloroethene	ND		5.0
Trichlorofluoromethane	ND		10
1,2,3-Trichloropropane	ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0
1,2,4-Trimethylbenzene	ND		5.0
1,3,5-Trimethylbenzene	ND		5.0
Vinyl acetate	ND		100
Vinyl chloride	ND		5.0
Xylenes, Total	ND		10
2,2-Dichloropropane	ND		5.0
Gasoline Range Organics (GRO)-C5-C12	ND		500

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	113		72 - 130
Toluene-d8 (Surr)	103		70 - 130

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Client Sample ID: **IDW-H2O-121813**

Lab Sample ID: 720-54453-1 Date Sampled: 12/18/2013 1000
Client Matrix: Water Date Received: 12/18/2013 1445

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	720-150509	Instrument ID:	SVOA HP 4
Prep Method:	3510C	Prep Batch:	720-150436	Lab File ID:	12201309.D
Dilution:	10			Initial Weight/Volume:	852.1 mL
Analysis Date:	12/20/2013 1529			Final Weight/Volume:	2 mL
Prep Date:	12/19/2013 1041			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
Phenol	ND		47
Bis(2-chloroethyl)ether	ND		47
2-Chlorophenol	ND		94
1,3-Dichlorobenzene	ND		47
1,4-Dichlorobenzene	ND		47
Benzyl alcohol	ND		120
1,2-Dichlorobenzene	ND		47
2-Methylphenol	ND		94
4-Methylphenol	ND		190
N-Nitrosodi-n-propylamine	ND		47
Hexachloroethane	ND		47
Nitrobenzene	ND		47
Isophorone	ND		94
2-Nitrophenol	ND		47
2,4-Dimethylphenol	ND		70
Bis(2-chloroethoxy)methane	ND		120
2,4-Dichlorophenol	ND		120
1,2,4-Trichlorobenzene	ND		47
Naphthalene	ND		47
4-Chloroaniline	ND		47
Hexachlorobutadiene	ND		47
4-Chloro-3-methylphenol	ND		120
2-Methylnaphthalene	ND		47
Hexachlorocyclopentadiene	ND		120
2,4,6-Trichlorophenol	ND		47
2,4,5-Trichlorophenol	ND		94
2-Chloronaphthalene	ND		94
2-Nitroaniline	ND		230
Dimethyl phthalate	ND		120
Acenaphthylene	ND		94
3-Nitroaniline	ND		120
Acenaphthene	ND		47
2,4-Dinitrophenol	ND		230
4-Nitrophenol	ND		230
Dibenzofuran	ND		94
2,4-Dinitrotoluene	ND	*	94
2,6-Dinitrotoluene	ND		120
Diethyl phthalate	ND		120
4-Chlorophenyl phenyl ether	ND		120
Fluorene	ND		94
4-Nitroaniline	ND	*	230
2-Methyl-4,6-dinitrophenol	ND		230
N-Nitrosodiphenylamine	ND		47
4-Bromophenyl phenyl ether	ND		120
Hexachlorobenzene	ND		47
Pentachlorophenol	ND		230

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Client Sample ID: **IDW-H2O-121813**

Lab Sample ID: 720-54453-1 Date Sampled: 12/18/2013 1000
Client Matrix: Water Date Received: 12/18/2013 1445

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	720-150509	Instrument ID:	SVOA HP 4
Prep Method:	3510C	Prep Batch:	720-150436	Lab File ID:	12201309.D
Dilution:	10			Initial Weight/Volume:	852.1 mL
Analysis Date:	12/20/2013 1529			Final Weight/Volume:	2 mL
Prep Date:	12/19/2013 1041			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	RL
Phenanthrene	110		47
Anthracene	ND		47
Di-n-butyl phthalate	ND	*	120
Fluoranthene	150	*	47
Pyrene	240		47
Butyl benzyl phthalate	ND		120
3,3'-Dichlorobenzidine	ND		120
Benzo[a]anthracene	ND		120
Bis(2-ethylhexyl) phthalate	ND		230
Chrysene	130		47
Di-n-octyl phthalate	ND		120
Benzo[b]fluoranthene	ND		47
Benzo[a]pyrene	ND		47
Benzo[k]fluoranthene	69	*	47
Indeno[1,2,3-cd]pyrene	ND		47
Benzo[g,h,i]perylene	ND		47
Benzoic acid	ND		230
Azobenzene	ND		47
Dibenz(a,h)anthracene	ND		47

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	0	D X	25 - 102
2-Fluorobiphenyl	0	D X	10 - 101
Terphenyl-d14	0	D X	57 - 117
2-Fluorophenol	0	D X	10 - 65
Phenol-d5	0	D X	10 - 46
2,4,6-Tribromophenol	0	D X	18 - 123

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Client Sample ID: **IDW-SO-121813**

Lab Sample ID: 720-54453-2 Date Sampled: 12/18/2013 0950
Client Matrix: Solid Date Received: 12/18/2013 1445

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analysis Method:	8270C	Analysis Batch:	720-150769	Instrument ID:	SVOA HP 4
Prep Method:	3546	Prep Batch:	720-150609	Lab File ID:	12261305.D
Dilution:	100			Initial Weight/Volume:	30.34 g
Analysis Date:	12/26/2013 1344			Final Weight/Volume:	1 mL
Prep Date:	12/23/2013 1056			Injection Volume:	1 uL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Phenol		ND		6.6
Bis(2-chloroethyl)ether		ND		6.6
2-Chlorophenol		ND		6.6
1,3-Dichlorobenzene		ND		6.6
1,4-Dichlorobenzene		ND		6.6
Benzyl alcohol		ND		17
1,2-Dichlorobenzene		ND		6.6
2-Methylphenol		ND		6.6
Methylphenol, 3 & 4		ND		6.6
N-Nitrosodi-n-propylamine		ND		6.6
Hexachloroethane		ND		6.6
Nitrobenzene		ND		6.6
Isophorone		ND		6.6
2-Nitrophenol		ND		6.6
2,4-Dimethylphenol		ND		6.6
Bis(2-chloroethoxy)methane		ND		17
2,4-Dichlorophenol		ND		33
1,2,4-Trichlorobenzene		ND		6.6
Naphthalene		23		6.6
4-Chloroaniline		ND		17
Hexachlorobutadiene		ND		6.6
4-Chloro-3-methylphenol		ND		17
2-Methylnaphthalene		12		6.6
Hexachlorocyclopentadiene		ND		17
2,4,6-Trichlorophenol		ND		17
2,4,5-Trichlorophenol		ND		6.6
2-Chloronaphthalene		ND		6.6
2-Nitroaniline		ND		33
Dimethyl phthalate		ND		17
Acenaphthylene		ND		6.6
3-Nitroaniline		ND		17
Acenaphthene		ND		6.6
2,4-Dinitrophenol		ND		65
4-Nitrophenol		ND		33
Dibenzofuran		ND		6.6
2,4-Dinitrotoluene		ND		6.6
2,6-Dinitrotoluene		ND		6.6
Diethyl phthalate		ND		17
4-Chlorophenyl phenyl ether		ND		17
Fluorene		ND		6.6
4-Nitroaniline		ND		33
2-Methyl-4,6-dinitrophenol		ND		33
N-Nitrosodiphenylamine		ND		6.6
4-Bromophenyl phenyl ether		ND		17
Hexachlorobenzene		ND		6.6
Pentachlorophenol		ND		33

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Client Sample ID: **IDW-SO-121813**

Lab Sample ID: 720-54453-2 Date Sampled: 12/18/2013 0950
Client Matrix: Solid Date Received: 12/18/2013 1445

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analysis Method:	8270C	Analysis Batch:	720-150769	Instrument ID:	SVOA HP 4
Prep Method:	3546	Prep Batch:	720-150609	Lab File ID:	12261305.D
Dilution:	100			Initial Weight/Volume:	30.34 g
Analysis Date:	12/26/2013 1344			Final Weight/Volume:	1 mL
Prep Date:	12/23/2013 1056			Injection Volume:	1 uL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Phenanthrene		110		6.6
Anthracene		6.9		6.6
Di-n-butyl phthalate		ND		17
Fluoranthene		71		6.6
Pyrene		130		6.6
Butyl benzyl phthalate		ND		17
3,3'-Dichlorobenzidine		ND		17
Benzo[a]anthracene		47		33
Bis(2-ethylhexyl) phthalate		ND		33
Chrysene		68		6.6
Di-n-octyl phthalate		ND		17
Benzo[b]fluoranthene		30		6.6
Benzo[a]pyrene		11		6.6
Benzo[k]fluoranthene		42		6.6
Indeno[1,2,3-cd]pyrene		21		6.6
Benzo[g,h,i]perylene		19		6.6
Benzoic acid		ND		33
Azobenzene		ND		6.6
Dibenz(a,h)anthracene		7.5		6.6

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	0	X D	21 - 98
2-Fluorobiphenyl	0	X D	30 - 112
Terphenyl-d14	0	X D	32 - 117
2-Fluorophenol	0	X D	28 - 98
Phenol-d5	0	X D	23 - 101
2,4,6-Tribromophenol	0	X D	37 - 114

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Client Sample ID: **IDW-H2O-121813**

Lab Sample ID: 720-54453-1 Date Sampled: 12/18/2013 1000
Client Matrix: Water Date Received: 12/18/2013 1445

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	720-150751	Instrument ID:	CHDRO6
Prep Method:	3510C	Prep Batch:	720-150687	Initial Weight/Volume:	990.5 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	12/26/2013 1019			Injection Volume:	1 uL
Prep Date:	12/24/2013 1003			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	2600		50
Motor Oil Range Organics [C24-C36]	1800		100

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	64		23 - 156

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Client Sample ID: **IDW-SO-121813**

Lab Sample ID: 720-54453-2 Date Sampled: 12/18/2013 0950
Client Matrix: Solid Date Received: 12/18/2013 1445

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	720-150663	Instrument ID:	CHDRO6
Prep Method:	3546	Prep Batch:	720-150650	Initial Weight/Volume:	30.31 g
Dilution:	20			Final Weight/Volume:	2 mL
Analysis Date:	12/24/2013 0420			Injection Volume:	1 uL
Prep Date:	12/23/2013 1628			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		1300		20
Motor Oil Range Organics [C24-C36]		1500		990

Surrogate	%Rec	Qualifier	Acceptance Limits
p-Terphenyl	0	X D	40 - 130

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Client Sample ID: **IDW-H2O-121813**

Lab Sample ID: 720-54453-1 Date Sampled: 12/18/2013 1000
Client Matrix: Water Date Received: 12/18/2013 1445

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	720-150716	Instrument ID:	Thermo ICP2
Prep Method:	3010A	Prep Batch:	720-150474	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	40 mL
Analysis Date:	12/24/2013 1121			Final Weight/Volume:	40 mL
Prep Date:	12/19/2013 1842				

Analyte	Result (ug/L)	Qualifier	RL
Antimony	ND		10
Arsenic	24		10
Barium	240		5.0
Beryllium	ND		2.0
Cadmium	ND		2.5
Chromium	66		10
Cobalt	14		2.0
Copper	120		20
Lead	870		5.0
Molybdenum	ND		10
Nickel	61		10
Selenium	ND		20
Silver	ND		5.0
Thallium	ND		10
Vanadium	44		10
Zinc	530		20

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	720-150475	Instrument ID:	LL_HG Analyzer
Prep Method:	7470A	Prep Batch:	720-150423	Lab File ID:	W121913A.PRN
Dilution:	1.0			Initial Weight/Volume:	25 mL
Analysis Date:	12/19/2013 1737			Final Weight/Volume:	50 mL
Prep Date:	12/19/2013 0936				

Analyte	Result (ug/L)	Qualifier	RL
Mercury	1.6		0.20

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Client Sample ID: **IDW-SO-121813**

Lab Sample ID: 720-54453-2 Date Sampled: 12/18/2013 0950
Client Matrix: Solid Date Received: 12/18/2013 1445

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	720-150519	Instrument ID:	Thermo ICP2
Prep Method:	3050B	Prep Batch:	720-150443	Lab File ID:	12201301.asc
Dilution:	4.0			Initial Weight/Volume:	1.11 g
Analysis Date:	12/20/2013 1227			Final Weight/Volume:	50 mL
Prep Date:	12/19/2013 1315				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Antimony		ND		1.8
Arsenic		14		3.6
Barium		130		1.8
Beryllium		ND		0.36
Cadmium		ND		0.45
Chromium		46		1.8
Cobalt		7.8		0.72
Copper		41		5.4
Lead		180		1.8
Molybdenum		ND		1.8
Nickel		46		1.8
Selenium		ND		3.6
Silver		ND		0.90
Thallium		ND		1.8
Vanadium		40		1.8
Zinc		160		5.4

6010B Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	720-150594	Instrument ID:	Thermo ICP2
Prep Method:	3010A	Prep Batch:	720-150505	Lab File ID:	12211301.asc
Dilution:	1.0	Leach Batch:	720-150425	Initial Weight/Volume:	4 mL
Analysis Date:	12/21/2013 2015			Final Weight/Volume:	40 mL
Prep Date:	12/20/2013 1013				
Leach Date:	12/19/2013 1530				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		0.18		0.050

6010B Metals (ICP)-STLC Citrate

Analysis Method:	6010B	Analysis Batch:	720-150604	Instrument ID:	Thermo ICP
Prep Method:	3005A	Prep Batch:	720-150566	Lab File ID:	12211301.asc
Dilution:	1.0	Leach Batch:	720-150414	Initial Weight/Volume:	4 mL
Analysis Date:	12/21/2013 1905			Final Weight/Volume:	40 mL
Prep Date:	12/21/2013 1343				
Leach Date:	12/19/2013 751				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		15		0.050

7471A Mercury (CVAA)

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Client Sample ID: **IDW-SO-121813**

Lab Sample ID: 720-54453-2 Date Sampled: 12/18/2013 0950
Client Matrix: Solid Date Received: 12/18/2013 1445

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	720-150550	Instrument ID:	LL_HG Analyzer
Prep Method:	7471A	Prep Batch:	720-150398	Lab File ID:	S122013B2.PRN
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	12/20/2013 1812			Final Weight/Volume:	50 mL
Prep Date:	12/19/2013 1931				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Mercury		0.39		0.0098

Preliminary Data

General Chemistry

Client Sample ID: **IDW-SO-121813**

Lab Sample ID: 720-54453-2 Date Sampled: 12/18/2013 0950

Client Matrix: Solid Date Received: 12/18/2013 1445

Analyte	Result	Qual	Units	RL	Dil	Method
Cyanide, Total	12		mg/Kg	0.50	5.0	9012A
Analysis Batch: 460-199055	Analysis Date: 12/20/2013 1148					DryWt Corrected: N
Prep Batch: 460-199031	Prep Date: 12/20/2013 0700					

Preliminary Data

DATA REPORTING QUALIFIERS

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	*	LCS or LCSD exceeds the control limits
	X	Surrogate is outside control limits
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
GC Semi VOA		
	X	Surrogate is outside control limits
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
Metals		
	4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
	F	MS/MSD Recovery and/or RPD exceeds the control limits

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-150462					
LCS 720-150462/5	Lab Control Sample	T	Solid	8260B	
LCS 720-150462/7	Lab Control Sample	T	Solid	8260B	
LCSD 720-150462/6	Lab Control Sample Duplicate	T	Solid	8260B	
LCSD 720-150462/8	Lab Control Sample Duplicate	T	Solid	8260B	
MB 720-150462/4	Method Blank	T	Solid	8260B	
720-54453-2	IDW-SO-121813	T	Solid	8260B	720-150482
Prep Batch: 720-150482					
720-54453-2	IDW-SO-121813	T	Solid	5030B	
Analysis Batch:720-150527					
LCS 720-150527/5	Lab Control Sample	T	Water	8260B/CA_LUFTMS	
LCS 720-150527/7	Lab Control Sample	T	Water	8260B/CA_LUFTMS	
LCSD 720-150527/6	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFTMS	
LCSD 720-150527/8	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFTMS	
MB 720-150527/4	Method Blank	T	Water	8260B/CA_LUFTMS	
720-54453-1	IDW-H2O-121813	T	Water	8260B/CA_LUFTMS	

Report Basis
T = Total

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 720-150436					
LCS 720-150436/2-A	Lab Control Sample	T	Water	3510C	
LCSD 720-150436/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 720-150436/1-A	Method Blank	T	Water	3510C	
720-54453-1	IDW-H2O-121813	T	Water	3510C	
Analysis Batch:720-150509					
LCS 720-150436/2-A	Lab Control Sample	T	Water	8270C	720-150436
LCSD 720-150436/3-A	Lab Control Sample Duplicate	T	Water	8270C	720-150436
MB 720-150436/1-A	Method Blank	T	Water	8270C	720-150436
720-54453-1	IDW-H2O-121813	T	Water	8270C	720-150436
Prep Batch: 720-150609					
LCS 720-150609/2-A	Lab Control Sample	T	Solid	3546	
LCSD 720-150609/3-A	Lab Control Sample Duplicate	T	Solid	3546	
MB 720-150609/1-A	Method Blank	T	Solid	3546	
720-54453-2	IDW-SO-121813	T	Solid	3546	
Analysis Batch:720-150635					
LCS 720-150609/2-A	Lab Control Sample	T	Solid	8270C	720-150609
LCSD 720-150609/3-A	Lab Control Sample Duplicate	T	Solid	8270C	720-150609
MB 720-150609/1-A	Method Blank	T	Solid	8270C	720-150609
Analysis Batch:720-150769					
720-54453-2	IDW-SO-121813	T	Solid	8270C	720-150609

Report Basis
T = Total

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-150650					
LCS 720-150650/2-A	Lab Control Sample	T	Solid	3546	
LCSD 720-150650/3-A	Lab Control Sample Duplicate	T	Solid	3546	
MB 720-150650/1-A	Method Blank	T	Solid	3546	
720-54453-2	IDW-SO-121813	T	Solid	3546	
Analysis Batch:720-150663					
LCS 720-150650/2-A	Lab Control Sample	T	Solid	8015B	720-150650
LCSD 720-150650/3-A	Lab Control Sample Duplicate	T	Solid	8015B	720-150650
MB 720-150650/1-A	Method Blank	T	Solid	8015B	720-150650
720-54453-2	IDW-SO-121813	T	Solid	8015B	720-150650
Analysis Batch:720-150674					
LCS 720-150687/2-A	Lab Control Sample	T	Water	8015B	720-150687
LCSD 720-150687/3-A	Lab Control Sample Duplicate	T	Water	8015B	720-150687
MB 720-150687/1-A	Method Blank	T	Water	8015B	720-150687
Prep Batch: 720-150687					
LCS 720-150687/2-A	Lab Control Sample	T	Water	3510C	
LCSD 720-150687/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 720-150687/1-A	Method Blank	T	Water	3510C	
720-54453-1	IDW-H2O-121813	T	Water	3510C	
Analysis Batch:720-150751					
720-54453-1	IDW-H2O-121813	T	Water	8015B	720-150687

Report Basis
T = Total

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-150398					
LCS 720-150398/2-A	Lab Control Sample	T	Solid	7471A	
LCSD 720-150398/3-A	Lab Control Sample Duplicate	T	Solid	7471A	
MB 720-150398/1-A	Method Blank	T	Solid	7471A	
720-54453-2	IDW-SO-121813	T	Solid	7471A	
Prep Batch: 720-150414					
LB4 720-150414/1-B	STLC Blank	C	Solid	CA WET Citrate	
720-54453-2	IDW-SO-121813	C	Solid	CA WET Citrate	
720-54453-2MS	Matrix Spike	C	Solid	CA WET Citrate	
720-54453-2MSD	Matrix Spike Duplicate	C	Solid	CA WET Citrate	
Prep Batch: 720-150423					
LCS 720-150423/2-A	Lab Control Sample	T	Water	7470A	
LCSD 720-150423/3-A	Lab Control Sample Duplicate	T	Water	7470A	
MB 720-150423/1-A	Method Blank	T	Water	7470A	
720-54453-1	IDW-H2O-121813	T	Water	7470A	
Prep Batch: 720-150425					
LB 720-150425/1-B	TCLP SPLPE Leachate Blank	P	Solid	1311	
720-54453-2	IDW-SO-121813	P	Solid	1311	
Prep Batch: 720-150443					
LCS 720-150443/2-A	Lab Control Sample	T	Solid	3050B	
LCSD 720-150443/3-A	Lab Control Sample Duplicate	T	Solid	3050B	
MB 720-150443/1-A	Method Blank	T	Solid	3050B	
720-54453-2	IDW-SO-121813	T	Solid	3050B	
720-54453-2MS	Matrix Spike	T	Solid	3050B	
720-54453-2MSD	Matrix Spike Duplicate	T	Solid	3050B	
Prep Batch: 720-150474					
LCS 720-150474/2-A	Lab Control Sample	T	Water	3010A	
LCSD 720-150474/3-A	Lab Control Sample Duplicate	T	Water	3010A	
MB 720-150474/1-A	Method Blank	T	Water	3010A	
720-54453-1	IDW-H2O-121813	T	Water	3010A	
Analysis Batch:720-150475					
LCS 720-150423/2-A	Lab Control Sample	T	Water	7470A	720-150423
LCSD 720-150423/3-A	Lab Control Sample Duplicate	T	Water	7470A	720-150423
MB 720-150423/1-A	Method Blank	T	Water	7470A	720-150423
720-54453-1	IDW-H2O-121813	T	Water	7470A	720-150423

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 720-150505					
LCS 720-150505/2-A	Lab Control Sample	T	Water	3010A	
LCSD 720-150505/3-A	Lab Control Sample Duplicate	T	Water	3010A	
MB 720-150505/1-A	Method Blank	T	Water	3010A	
LB 720-150425/1-B	TCLP SPLPE Leachate Blank	P	Solid	3010A	720-150425
720-54453-2	IDW-SO-121813	P	Solid	3010A	720-150425
Analysis Batch:720-150519					
LCS 720-150443/2-A	Lab Control Sample	T	Solid	6010B	720-150443
LCSD 720-150443/3-A	Lab Control Sample Duplicate	T	Solid	6010B	720-150443
MB 720-150443/1-A	Method Blank	T	Solid	6010B	720-150443
720-54453-2	IDW-SO-121813	T	Solid	6010B	720-150443
720-54453-2MS	Matrix Spike	T	Solid	6010B	720-150443
720-54453-2MSD	Matrix Spike Duplicate	T	Solid	6010B	720-150443
Analysis Batch:720-150544					
LCS 720-150398/2-A	Lab Control Sample	T	Solid	7471A	720-150398
LCSD 720-150398/3-A	Lab Control Sample Duplicate	T	Solid	7471A	720-150398
MB 720-150398/1-A	Method Blank	T	Solid	7471A	720-150398
Analysis Batch:720-150545					
LCS 720-150474/2-A	Lab Control Sample	T	Water	6010B	720-150474
LCSD 720-150474/3-A	Lab Control Sample Duplicate	T	Water	6010B	720-150474
MB 720-150474/1-A	Method Blank	T	Water	6010B	720-150474
720-54453-1	IDW-H2O-121813	T	Water	6010B	720-150474
Analysis Batch:720-150550					
720-54453-2	IDW-SO-121813	T	Solid	7471A	720-150398
Prep Batch: 720-150566					
LCS 720-150566/2-A	Lab Control Sample	R	Water	3005A	
LCSD 720-150566/3-A	Lab Control Sample Duplicate	R	Water	3005A	
MB 720-150566/1-A	Method Blank	R	Water	3005A	
LB4 720-150414/1-B	STLC Blank	C	Solid	3005A	720-150414
720-54453-2	IDW-SO-121813	C	Solid	3005A	720-150414
720-54453-2MS	Matrix Spike	C	Solid	3005A	720-150414
720-54453-2MSD	Matrix Spike Duplicate	C	Solid	3005A	720-150414
Analysis Batch:720-150594					
LB 720-150425/1-B	TCLP SPLPE Leachate Blank	P	Solid	6010B	720-150505
LCS 720-150505/2-A	Lab Control Sample	T	Water	6010B	720-150505
LCSD 720-150505/3-A	Lab Control Sample Duplicate	T	Water	6010B	720-150505
MB 720-150505/1-A	Method Blank	T	Water	6010B	720-150505
720-54453-2	IDW-SO-121813	P	Solid	6010B	720-150505

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:720-150604					
LB4 720-150414/1-B	STLC Blank	C	Solid	6010B	720-150566
LCS 720-150566/2-A	Lab Control Sample	R	Water	6010B	720-150566
LCSD 720-150566/3-A	Lab Control Sample Duplicate	R	Water	6010B	720-150566
MB 720-150566/1-A	Method Blank	R	Water	6010B	720-150566
720-54453-2	IDW-SO-121813	C	Solid	6010B	720-150566
720-54453-2MS	Matrix Spike	C	Solid	6010B	720-150566
720-54453-2MSD	Matrix Spike Duplicate	C	Solid	6010B	720-150566
Analysis Batch:720-150716					
720-54453-1	IDW-H2O-121813	T	Water	6010B	720-150474

Report Basis
C = STLC Citrate
P = TCLP
R = Total Recoverable
T = Total

General Chemistry					
Prep Batch: 460-199031					
HLCS 460-199031/3-A	High Level Control Sample	T	Solid	9012A	
LLCS 460-199031/2-A	Low Level Control Sample	T	Solid	9012A	
MB 460-199031/1-A	Method Blank	T	Solid	9012A	
720-54453-2	IDW-SO-121813	T	Solid	9012A	
Analysis Batch:460-199055					
HLCS 460-199031/3-A	High Level Control Sample	T	Solid	9012A	460-199031
LLCS 460-199031/2-A	Low Level Control Sample	T	Solid	9012A	460-199031
MB 460-199031/1-A	Method Blank	T	Solid	9012A	460-199031
720-54453-2	IDW-SO-121813	T	Solid	9012A	460-199031

Report Basis
T = Total

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Method Blank - Batch: 720-150462

Method: 8260B
Preparation: N/A

Lab Sample ID:	MB 720-150462/4	Analysis Batch:	720-150462	Instrument ID:	HP7
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12191326.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/19/2013 1946	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		0.0050
Acetone	ND		0.050
Benzene	ND		0.0050
Dichlorobromomethane	ND		0.0050
Bromobenzene	ND		0.0050
Chlorobromomethane	ND		0.020
Bromoform	ND		0.0050
Bromomethane	ND		0.010
2-Butanone (MEK)	ND		0.050
n-Butylbenzene	ND		0.0050
sec-Butylbenzene	ND		0.0050
tert-Butylbenzene	ND		0.0050
Carbon disulfide	ND		0.0050
Carbon tetrachloride	ND		0.0050
Chlorobenzene	ND		0.0050
Chloroethane	ND		0.010
Chloroform	ND		0.0050
Chloromethane	ND		0.010
2-Chlorotoluene	ND		0.0050
4-Chlorotoluene	ND		0.0050
Chlorodibromomethane	ND		0.0050
1,2-Dichlorobenzene	ND		0.0050
1,3-Dichlorobenzene	ND		0.0050
1,4-Dichlorobenzene	ND		0.0050
1,3-Dichloropropane	ND		0.0050
1,1-Dichloropropene	ND		0.0050
1,2-Dibromo-3-Chloropropane	ND		0.0050
Ethylene Dibromide	ND		0.0050
Dibromomethane	ND		0.010
Dichlorodifluoromethane	ND		0.010
1,1-Dichloroethane	ND		0.0050
1,2-Dichloroethane	ND		0.0050
1,1-Dichloroethene	ND		0.0050
cis-1,2-Dichloroethene	ND		0.0050
trans-1,2-Dichloroethene	ND		0.0050
1,2-Dichloropropane	ND		0.0050
cis-1,3-Dichloropropene	ND		0.0050
trans-1,3-Dichloropropene	ND		0.0050
Ethylbenzene	ND		0.0050
Hexachlorobutadiene	ND		0.0050
2-Hexanone	ND		0.050
Isopropylbenzene	ND		0.0050
4-Isopropyltoluene	ND		0.0050
Methylene Chloride	ND		0.010
4-Methyl-2-pentanone (MIBK)	ND		0.050

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Method Blank - Batch: 720-150462

Method: 8260B
Preparation: N/A

Lab Sample ID:	MB 720-150462/4	Analysis Batch:	720-150462	Instrument ID:	HP7
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12191326.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/19/2013 1946	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Naphthalene	ND		0.010
N-Propylbenzene	ND		0.0050
Styrene	ND		0.0050
1,1,1,2-Tetrachloroethane	ND		0.0050
1,1,2,2-Tetrachloroethane	ND		0.0050
Tetrachloroethene	ND		0.0050
Toluene	ND		0.0050
1,2,3-Trichlorobenzene	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0050
1,1,1-Trichloroethane	ND		0.0050
1,1,2-Trichloroethane	ND		0.0050
Trichloroethene	ND		0.0050
Trichlorofluoromethane	ND		0.0050
1,2,3-Trichloropropane	ND		0.0050
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.0050
1,2,4-Trimethylbenzene	ND		0.0050
1,3,5-Trimethylbenzene	ND		0.0050
Vinyl acetate	ND		0.050
Vinyl chloride	ND		0.0050
m-Xylene & p-Xylene	ND		0.0050
o-Xylene	ND		0.0050
Xylenes, Total	ND		0.010
2,2-Dichloropropane	ND		0.0050
Gasoline Range Organics (GRO)-C5-C12	ND		0.25

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	92	45 - 131
1,2-Dichloroethane-d4 (Surr)	103	60 - 140
Toluene-d8 (Surr)	92	58 - 140

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-150462

Method: 8260B
Preparation: N/A

LCS Lab Sample ID:	LCS 720-150462/5	Analysis Batch:	720-150462	Instrument ID:	HP7
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12191327.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/19/2013 2015	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 720-150462/6	Analysis Batch:	720-150462	Instrument ID:	HP7
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12191328.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/19/2013 2044	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methyl tert-butyl ether	110	108	70 - 144	2	20		
Acetone	125	109	30 - 162	14	30		
Benzene	105	104	70 - 130	1	20		
Dichlorobromomethane	111	110	70 - 131	1	20		
Bromobenzene	109	107	70 - 130	2	20		
Chlorobromomethane	115	113	70 - 130	2	20		
Bromoform	132	130	59 - 158	1	20		
Bromomethane	103	99	59 - 132	4	20		
2-Butanone (MEK)	116	116	53 - 124	1	20		
n-Butylbenzene	100	99	70 - 142	0	20		
sec-Butylbenzene	96	95	70 - 136	1	20		
tert-Butylbenzene	99	97	70 - 130	2	20		
Carbon disulfide	99	99	60 - 140	0	20		
Carbon tetrachloride	115	115	70 - 138	0	20		
Chlorobenzene	111	112	70 - 130	2	20		
Chloroethane	104	103	65 - 130	1	20		
Chloroform	110	109	77 - 127	1	20		
Chloromethane	111	109	55 - 140	1	20		
2-Chlorotoluene	104	102	70 - 138	1	20		
4-Chlorotoluene	101	100	70 - 136	1	20		
Chlorodibromomethane	119	117	70 - 146	2	20		
1,2-Dichlorobenzene	100	99	70 - 130	2	20		
1,3-Dichlorobenzene	103	103	70 - 131	0	20		
1,4-Dichlorobenzene	107	106	70 - 130	0	20		
1,3-Dichloropropane	113	111	70 - 140	2	20		
1,1-Dichloropropene	116	117	70 - 130	1	20		
1,2-Dibromo-3-Chloropropane	95	90	60 - 145	4	20		
Ethylene Dibromide	119	113	70 - 140	5	20		
Dibromomethane	118	114	70 - 139	3	20		
Dichlorodifluoromethane	88	96	37 - 158	9	20		
1,1-Dichloroethane	112	113	70 - 130	1	20		
1,2-Dichloroethane	114	112	70 - 130	2	20		
1,1-Dichloroethene	110	109	76 - 122	1	20		
cis-1,2-Dichloroethene	113	113	70 - 138	0	20		
trans-1,2-Dichloroethene	112	112	67 - 130	0	20		

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-150462

Method: 8260B
Preparation: N/A

LCS Lab Sample ID:	LCS 720-150462/5	Analysis Batch:	720-150462	Instrument ID:	HP7
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12191327.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/19/2013 2015	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 720-150462/6	Analysis Batch:	720-150462	Instrument ID:	HP7
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12191328.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/19/2013 2044	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,2-Dichloropropane	109	109	73 - 127	0	20		
cis-1,3-Dichloropropene	114	111	68 - 147	3	20		
trans-1,3-Dichloropropene	123	120	70 - 136	2	20		
Ethylbenzene	106	109	80 - 137	3	20		
Hexachlorobutadiene	100	102	70 - 132	2	20		
2-Hexanone	126	119	44 - 133	6	20		
Isopropylbenzene	103	106	88 - 128	3	20		
4-Isopropyltoluene	96	95	70 - 133	1	20		
Methylene Chloride	117	113	70 - 134	3	20		
4-Methyl-2-pentanone (MIBK)	126	119	60 - 160	6	20		
Naphthalene	93	91	60 - 147	3	20		
N-Propylbenzene	98	96	70 - 130	1	20		
Styrene	110	111	70 - 130	1	20		
1,1,1,2-Tetrachloroethane	112	114	70 - 130	2	20		
1,1,2,2-Tetrachloroethane	109	102	70 - 146	6	20		
Tetrachloroethene	120	119	70 - 132	1	20		
Toluene	105	108	80 - 128	2	20		
1,2,3-Trichlorobenzene	100	101	60 - 140	1	20		
1,2,4-Trichlorobenzene	99	101	60 - 140	2	20		
1,1,1-Trichloroethane	115	116	70 - 130	0	20		
1,1,2-Trichloroethane	115	111	70 - 130	3	20		
Trichloroethene	110	110	70 - 133	1	20		
Trichlorofluoromethane	106	105	60 - 140	0	20		
1,2,3-Trichloropropane	105	99	70 - 146	6	20		
1,1,2-Trichloro-1,2,2-trifluoroethane	117	117	60 - 140	0	20		
1,2,4-Trimethylbenzene	101	99	70 - 130	1	20		
1,3,5-Trimethylbenzene	101	100	70 - 131	1	20		
Vinyl acetate	145	140	38 - 176	3	20		
Vinyl chloride	104	104	58 - 125	1	20		
m-Xylene & p-Xylene	104	106	70 - 146	2	20		
o-Xylene	113	114	70 - 140	1	20		
2,2-Dichloropropane	115	115	70 - 162	0	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	98	99	45 - 131
1,2-Dichloroethane-d4 (Surr)	103	99	60 - 140

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	97	98	58 - 140

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-150462

Method: 8260B
Preparation: N/A

LCS Lab Sample ID:	LCS 720-150462/7	Analysis Batch:	720-150462	Instrument ID:	HP7
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12191329.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/19/2013 2113	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 720-150462/8	Analysis Batch:	720-150462	Instrument ID:	HP7
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	12191330.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/19/2013 2142	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline Range Organics (GRO)-C5-C12	107	104	61 - 128	3	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	96	94	45 - 131
1,2-Dichloroethane-d4 (Surr)	102	103	60 - 140
Toluene-d8 (Surr)	98	96	58 - 140

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Method Blank - Batch: 720-150527

Method: 8260B/CA_LUFTMS
Preparation: 5030B

Lab Sample ID:	MB 720-150527/4	Analysis Batch:	720-150527	Instrument ID:	HP4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121913016.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/20/2013 1646	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	12/20/2013 1646				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		0.50
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		50

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Method Blank - Batch: 720-150527

Method: 8260B/CA_LUFTMS
Preparation: 5030B

Lab Sample ID:	MB 720-150527/4	Analysis Batch:	720-150527	Instrument ID:	HP4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121913016.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/20/2013 1646	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	12/20/2013 1646				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		10
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	101	67 - 130
1,2-Dichloroethane-d4 (Surr)	100	72 - 130
Toluene-d8 (Surr)	102	70 - 130

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-150527

Method: 8260B/CA_LUFTMS
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-150527/5	Analysis Batch:	720-150527	Instrument ID:	HP4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121913017.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/20/2013 1716	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	12/20/2013 1716				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 720-150527/6	Analysis Batch:	720-150527	Instrument ID:	HP4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121913018.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/20/2013 1745	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	12/20/2013 1745				
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Methyl tert-butyl ether	112	115	62 - 130	2	20		
Acetone	116	118	26 - 180	1	30		
Benzene	104	104	79 - 130	0	20		
Dichlorobromomethane	110	110	70 - 130	1	20		
Bromobenzene	101	101	70 - 130	0	20		
Chlorobromomethane	114	114	70 - 130	0	20		
Bromoform	115	116	68 - 136	0	20		
Bromomethane	103	98	43 - 151	5	20		
2-Butanone (MEK)	111	116	54 - 130	5	20		
n-Butylbenzene	114	112	70 - 142	1	20		
sec-Butylbenzene	107	105	70 - 134	2	20		
tert-Butylbenzene	107	106	70 - 135	1	20		
Carbon disulfide	86	82	58 - 130	4	20		
Carbon tetrachloride	110	108	70 - 146	2	20		
Chlorobenzene	109	109	70 - 130	0	20		
Chloroethane	108	101	62 - 138	7	20		
Chloroform	108	108	70 - 130	1	20		
Chloromethane	105	100	52 - 175	5	20		
2-Chlorotoluene	106	105	70 - 130	1	20		
4-Chlorotoluene	104	104	70 - 130	0	20		
Chlorodibromomethane	122	124	70 - 145	2	20		
1,2-Dichlorobenzene	107	107	70 - 130	0	20		
1,3-Dichlorobenzene	111	109	70 - 130	2	20		
1,4-Dichlorobenzene	109	108	70 - 130	1	20		
1,3-Dichloropropane	113	114	70 - 130	1	20		
1,1-Dichloropropene	109	109	70 - 130	0	20		
1,2-Dibromo-3-Chloropropane	102	111	70 - 136	9	20		
Ethylene Dibromide	115	117	70 - 130	1	20		
Dibromomethane	113	115	70 - 130	2	20		
Dichlorodifluoromethane	101	96	34 - 132	5	20		
1,1-Dichloroethane	107	108	70 - 130	1	20		
1,2-Dichloroethane	110	111	61 - 132	1	20		
1,1-Dichloroethene	90	86	64 - 128	5	20		
cis-1,2-Dichloroethene	109	109	70 - 130	0	20		
trans-1,2-Dichloroethene	102	100	68 - 130	2	20		

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-150527

Method: 8260B/CA_LUFTMS
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-150527/5	Analysis Batch:	720-150527	Instrument ID:	HP4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121913017.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/20/2013 1716	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	12/20/2013 1716				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 720-150527/6	Analysis Batch:	720-150527	Instrument ID:	HP4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121913018.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/20/2013 1745	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	12/20/2013 1745				
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,2-Dichloropropane	106	108	70 - 130	2	20		
cis-1,3-Dichloropropene	113	114	70 - 130	1	20		
trans-1,3-Dichloropropene	123	126	70 - 140	3	20		
Ethylbenzene	105	105	80 - 120	0	20		
Hexachlorobutadiene	105	105	70 - 130	0	20		
2-Hexanone	117	120	60 - 164	3	20		
Isopropylbenzene	114	110	70 - 130	3	20		
4-Isopropyltoluene	109	107	70 - 130	1	20		
Methylene Chloride	104	102	70 - 147	2	20		
4-Methyl-2-pentanone (MIBK)	117	119	58 - 130	2	20		
Naphthalene	113	119	70 - 130	5	20		
N-Propylbenzene	103	103	70 - 130	1	20		
Styrene	115	113	70 - 130	2	20		
1,1,1,2-Tetrachloroethane	112	112	70 - 130	0	20		
1,1,2,2-Tetrachloroethane	104	106	70 - 130	2	20		
Tetrachloroethene	112	111	70 - 130	1	20		
Toluene	103	103	78 - 120	0	20		
1,2,3-Trichlorobenzene	109	113	70 - 130	4	20		
1,2,4-Trichlorobenzene	113	114	70 - 130	0	20		
1,1,1-Trichloroethane	112	109	70 - 130	2	20		
1,1,2-Trichloroethane	115	117	70 - 130	1	20		
Trichloroethene	106	106	70 - 130	0	20		
Trichlorofluoromethane	108	105	66 - 132	3	20		
1,2,3-Trichloropropane	107	112	70 - 130	4	20		
1,1,2-Trichloro-1,2,2-trifluoroethane	99	95	42 - 162	4	20		
1,2,4-Trimethylbenzene	109	108	70 - 132	1	20		
1,3,5-Trimethylbenzene	109	108	70 - 130	1	20		
Vinyl acetate	145	144	43 - 163	1	20		
Vinyl chloride	109	104	54 - 135	5	20		
m-Xylene & p-Xylene	107	106	70 - 142	1	20		
o-Xylene	115	113	70 - 130	2	20		
2,2-Dichloropropane	114	107	70 - 140	6	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	105	103	67 - 130
1,2-Dichloroethane-d4 (Surr)	100	104	72 - 130

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	103	104	70 - 130

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-150527

Method: 8260B/CA_LUFTMS
Preparation: 5030B

LCS Lab Sample ID:	LCS 720-150527/7	Analysis Batch:	720-150527	Instrument ID:	HP4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121913019.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/20/2013 1815	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	12/20/2013 1815				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 720-150527/8	Analysis Batch:	720-150527	Instrument ID:	HP4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121913020.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	12/20/2013 1844	Units:	ug/L	Final Weight/Volume:	10 mL
Prep Date:	12/20/2013 1844				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline Range Organics (GRO)-C5-C12	100	99	62 - 120	1	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	104	105	67 - 130
1,2-Dichloroethane-d4 (Surr)	109	108	72 - 130
Toluene-d8 (Surr)	103	104	70 - 130

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Method Blank - Batch: 720-150436

Method: 8270C
Preparation: 3510C

Lab Sample ID:	MB 720-150436/1-A	Analysis Batch:	720-150509	Instrument ID:	SVOA HP 4
Client Matrix:	Water	Prep Batch:	720-150436	Lab File ID:	12201305.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	12/20/2013 1353	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	12/19/2013 1041			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Phenol	ND		2.0
Bis(2-chloroethyl)ether	ND		2.0
2-Chlorophenol	ND		4.0
1,3-Dichlorobenzene	ND		2.0
1,4-Dichlorobenzene	ND		2.0
Benzyl alcohol	ND		5.0
1,2-Dichlorobenzene	ND		2.0
2-Methylphenol	ND		4.0
4-Methylphenol	ND		8.0
N-Nitrosodi-n-propylamine	ND		2.0
Hexachloroethane	ND		2.0
Nitrobenzene	ND		2.0
Isophorone	ND		4.0
2-Nitrophenol	ND		2.0
2,4-Dimethylphenol	ND		3.0
Bis(2-chloroethoxy)methane	ND		5.0
2,4-Dichlorophenol	ND		5.0
1,2,4-Trichlorobenzene	ND		2.0
Naphthalene	ND		2.0
4-Chloroaniline	ND		2.0
Hexachlorobutadiene	ND		2.0
4-Chloro-3-methylphenol	ND		5.0
2-Methylnaphthalene	ND		2.0
Hexachlorocyclopentadiene	ND		5.0
2,4,6-Trichlorophenol	ND		2.0
2,4,5-Trichlorophenol	ND		4.0
2-Chloronaphthalene	ND		4.0
2-Nitroaniline	ND		10
Dimethyl phthalate	ND		5.0
Acenaphthylene	ND		4.0
3-Nitroaniline	ND		5.0
Acenaphthene	ND		2.0
2,4-Dinitrophenol	ND		10
4-Nitrophenol	ND		10
Dibenzofuran	ND		4.0
2,4-Dinitrotoluene	ND		4.0
2,6-Dinitrotoluene	ND		5.0
Diethyl phthalate	ND		5.0
4-Chlorophenyl phenyl ether	ND		5.0
Fluorene	ND		4.0
4-Nitroaniline	ND		10
2-Methyl-4,6-dinitrophenol	ND		10
N-Nitrosodiphenylamine	ND		2.0
4-Bromophenyl phenyl ether	ND		5.0
Hexachlorobenzene	ND		2.0

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Method Blank - Batch: 720-150436

Method: 8270C
Preparation: 3510C

Lab Sample ID:	MB 720-150436/1-A	Analysis Batch:	720-150509	Instrument ID:	SVOA HP 4
Client Matrix:	Water	Prep Batch:	720-150436	Lab File ID:	12201305.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	12/20/2013 1353	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	12/19/2013 1041			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Pentachlorophenol	ND		10
Phenanthrene	ND		2.0
Anthracene	ND		2.0
Di-n-butyl phthalate	ND		5.0
Fluoranthene	ND		2.0
Pyrene	ND		2.0
Butyl benzyl phthalate	ND		5.0
3,3'-Dichlorobenzidine	ND		5.0
Benzo[a]anthracene	ND		5.0
Bis(2-ethylhexyl) phthalate	ND		10
Chrysene	ND		2.0
Di-n-octyl phthalate	ND		5.0
Benzo[b]fluoranthene	ND		2.0
Benzo[a]pyrene	ND		2.0
Benzo[k]fluoranthene	ND		2.0
Indeno[1,2,3-cd]pyrene	ND		2.0
Benzo[g,h,i]perylene	ND		2.0
Benzoic acid	ND		10
Azobenzene	ND		2.0
Dibenz(a,h)anthracene	ND		2.0

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	59	25 - 102
2-Fluorobiphenyl	66	10 - 101
Terphenyl-d14	89	57 - 117
2-Fluorophenol	25	10 - 65
Phenol-d5	19	10 - 46
2,4,6-Tribromophenol	70	18 - 123

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-150436

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID:	LCS 720-150436/2-A	Analysis Batch:	720-150509	Instrument ID:	SVOA HP 4
Client Matrix:	Water	Prep Batch:	720-150436	Lab File ID:	12201303.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	12/20/2013 1305	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	12/19/2013 1041			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 720-150436/3-A	Analysis Batch:	720-150509	Instrument ID:	SVOA HP 4
Client Matrix:	Water	Prep Batch:	720-150436	Lab File ID:	12201304.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	12/20/2013 1329	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	12/19/2013 1041			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Phenol	14	16	10 - 115	16	51		
Bis(2-chloroethyl)ether	33	38	12 - 115	14	35		
2-Chlorophenol	35	37	14 - 115	5	40		
1,3-Dichlorobenzene	35	30	13 - 115	15	40		
1,4-Dichlorobenzene	37	32	14 - 115	14	41		
Benzyl alcohol	33	37	19 - 115	11	35		
1,2-Dichlorobenzene	37	32	10 - 115	14	35		
2-Methylphenol	31	34	13 - 115	10	35		
4-Methylphenol	29	33	10 - 115	12	35		
N-Nitrosodi-n-propylamine	39	41	17 - 115	5	34		
Hexachloroethane	34	27	9 - 115	24	35		
Nitrobenzene	38	40	18 - 115	5	43		
Isophorone	38	41	18 - 134	6	39		
2-Nitrophenol	38	41	14 - 115	8	46		
2,4-Dimethylphenol	35	40	10 - 119	13	44		
Bis(2-chloroethoxy)methane	36	39	10 - 119	7	46		
2,4-Dichlorophenol	38	42	13 - 118	10	38		
1,2,4-Trichlorobenzene	38	30	10 - 115	21	51		
Naphthalene	41	38	12 - 115	8	42		
4-Chloroaniline	36	45	26 - 115	21	49		
Hexachlorobutadiene	38	26	12 - 115	36	46		
4-Chloro-3-methylphenol	45	49	19 - 128	6	40		
2-Methylnaphthalene	41	37	16 - 115	10	45		
Hexachlorocyclopentadiene	31	23	10 - 115	27	63		
2,4,6-Trichlorophenol	44	46	20 - 120	4	43		
2,4,5-Trichlorophenol	48	49	22 - 117	2	41		
2-Chloronaphthalene	42	40	17 - 115	5	49		
2-Nitroaniline	51	52	37 - 119	1	29		
Dimethyl phthalate	57	56	48 - 127	2	29		
Acenaphthylene	42	41	29 - 129	3	40		
3-Nitroaniline	49	52	40 - 115	5	30		
Acenaphthene	47	46	25 - 115	2	40		
2,4-Dinitrophenol	68	66	44 - 116	3	21		
4-Nitrophenol	27	26	20 - 115	2	32		
Dibenzofuran	51	50	28 - 115	2	46		

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-150436

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID:	LCS 720-150436/2-A	Analysis Batch:	720-150509	Instrument ID:	SVOA HP 4
Client Matrix:	Water	Prep Batch:	720-150436	Lab File ID:	12201303.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	12/20/2013 1305	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	12/19/2013 1041			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 720-150436/3-A	Analysis Batch:	720-150509	Instrument ID:	SVOA HP 4
Client Matrix:	Water	Prep Batch:	720-150436	Lab File ID:	12201304.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	12/20/2013 1329	Units:	ug/L	Final Weight/Volume:	1 mL
Prep Date:	12/19/2013 1041			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
2,4-Dinitrotoluene	62	60	61 - 118	3	19		*
2,6-Dinitrotoluene	57	56	46 - 119	2	26		
Diethyl phthalate	60	59	59 - 115	3	24		
4-Chlorophenyl phenyl ether	55	54	32 - 115	1	38		
Fluorene	53	54	39 - 115	0	39		
4-Nitroaniline	62	59	67 - 115	5	23	*	*
2-Methyl-4,6-dinitrophenol	70	68	42 - 135	3	19		
N-Nitrosodiphenylamine	64	63	57 - 115	2	27		
4-Bromophenyl phenyl ether	57	58	42 - 115	1	29		
Hexachlorobenzene	61	59	49 - 115	4	28		
Pentachlorophenol	61	58	42 - 121	5	22		
Phenanthrene	62	60	54 - 115	3	35		
Anthracene	61	60	54 - 115	2	25		
Di-n-butyl phthalate	59	56	58 - 115	5	26		*
Fluoranthene	59	56	65 - 115	5	26	*	*
Pyrene	71	68	53 - 115	5	22		
Butyl benzyl phthalate	69	68	37 - 115	2	21		
3,3'-Dichlorobenzidine	49	51	24 - 110	5	30		
Benzo[a]anthracene	64	62	56 - 115	3	24		
Bis(2-ethylhexyl) phthalate	79	77	59 - 115	3	30		
Chrysene	66	62	50 - 115	6	24		
Di-n-octyl phthalate	65	63	12 - 115	4	27		
Benzo[b]fluoranthene	68	62	50 - 115	9	31		
Benzo[a]pyrene	65	63	55 - 115	2	23		
Benzo[k]fluoranthene	60	59	60 - 115	1	39		*
Indeno[1,2,3-cd]pyrene	58	56	49 - 117	4	19		
Benzo[g,h,i]perylene	56	54	54 - 115	3	35		
Benzoic acid	12	10	10 - 115	13	56		
Azobenzene	54	52	42 - 115	5	35		
Dibenz(a,h)anthracene	60	57	47 - 127	5	35		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Nitrobenzene-d5	38	40	25 - 102
2-Fluorobiphenyl	40	38	10 - 101
Terphenyl-d14	66	63	57 - 117
2-Fluorophenol	17	19	10 - 65

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Phenol-d5	13	14	10 - 46
2,4,6-Tribromophenol	59	56	18 - 123

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Method Blank - Batch: 720-150609

Method: 8270C
Preparation: 3546

Lab Sample ID:	MB 720-150609/1-A	Analysis Batch:	720-150635	Instrument ID:	SVOA HP 4
Client Matrix:	Solid	Prep Batch:	720-150609	Lab File ID:	12231305.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.11 g
Analysis Date:	12/23/2013 1716	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/23/2013 1056			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Phenol	ND		0.067
Bis(2-chloroethyl)ether	ND		0.067
2-Chlorophenol	ND		0.067
1,3-Dichlorobenzene	ND		0.067
1,4-Dichlorobenzene	ND		0.067
Benzyl alcohol	ND		0.17
1,2-Dichlorobenzene	ND		0.067
2-Methylphenol	ND		0.067
Methylphenol, 3 & 4	ND		0.067
N-Nitrosodi-n-propylamine	ND		0.067
Hexachloroethane	ND		0.067
Nitrobenzene	ND		0.067
Isophorone	ND		0.067
2-Nitrophenol	ND		0.067
2,4-Dimethylphenol	ND		0.067
Bis(2-chloroethoxy)methane	ND		0.17
2,4-Dichlorophenol	ND		0.33
1,2,4-Trichlorobenzene	ND		0.067
Naphthalene	ND		0.067
4-Chloroaniline	ND		0.17
Hexachlorobutadiene	ND		0.067
4-Chloro-3-methylphenol	ND		0.17
2-Methylnaphthalene	ND		0.067
Hexachlorocyclopentadiene	ND		0.17
2,4,6-Trichlorophenol	ND		0.17
2,4,5-Trichlorophenol	ND		0.067
2-Chloronaphthalene	ND		0.067
2-Nitroaniline	ND		0.33
Dimethyl phthalate	ND		0.17
Acenaphthylene	ND		0.067
3-Nitroaniline	ND		0.17
Acenaphthene	ND		0.067
2,4-Dinitrophenol	ND		0.66
4-Nitrophenol	ND		0.33
Dibenzofuran	ND		0.067
2,4-Dinitrotoluene	ND		0.067
2,6-Dinitrotoluene	ND		0.067
Diethyl phthalate	ND		0.17
4-Chlorophenyl phenyl ether	ND		0.17
Fluorene	ND		0.067
4-Nitroaniline	ND		0.33
2-Methyl-4,6-dinitrophenol	ND		0.33
N-Nitrosodiphenylamine	ND		0.067
4-Bromophenyl phenyl ether	ND		0.17
Hexachlorobenzene	ND		0.067

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Method Blank - Batch: 720-150609

Method: 8270C
Preparation: 3546

Lab Sample ID:	MB 720-150609/1-A	Analysis Batch:	720-150635	Instrument ID:	SVOA HP 4
Client Matrix:	Solid	Prep Batch:	720-150609	Lab File ID:	12231305.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.11 g
Analysis Date:	12/23/2013 1716	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/23/2013 1056			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Pentachlorophenol	ND		0.33
Phenanthrene	ND		0.067
Anthracene	ND		0.067
Di-n-butyl phthalate	ND		0.17
Fluoranthene	ND		0.067
Pyrene	ND		0.067
Butyl benzyl phthalate	ND		0.17
3,3'-Dichlorobenzidine	ND		0.17
Benzo[a]anthracene	ND		0.33
Bis(2-ethylhexyl) phthalate	ND		0.33
Chrysene	ND		0.067
Di-n-octyl phthalate	ND		0.17
Benzo[b]fluoranthene	ND		0.067
Benzo[a]pyrene	ND		0.067
Benzo[k]fluoranthene	ND		0.067
Indeno[1,2,3-cd]pyrene	ND		0.067
Benzo[g,h,i]perylene	ND		0.067
Benzoic acid	ND		0.33
Azobenzene	ND		0.067
Dibenz(a,h)anthracene	ND		0.067

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	68	21 - 98
2-Fluorobiphenyl	73	30 - 112
Terphenyl-d14	83	32 - 117
2-Fluorophenol	59	28 - 98
Phenol-d5	67	23 - 101
2,4,6-Tribromophenol	65	37 - 114

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-150609

Method: 8270C
Preparation: 3546

LCS Lab Sample ID:	LCS 720-150609/2-A	Analysis Batch:	720-150635	Instrument ID:	SVOA HP 4
Client Matrix:	Solid	Prep Batch:	720-150609	Lab File ID:	12231303.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.07 g
Analysis Date:	12/23/2013 1628	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/23/2013 1056			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 720-150609/3-A	Analysis Batch:	720-150635	Instrument ID:	SVOA HP 4
Client Matrix:	Solid	Prep Batch:	720-150609	Lab File ID:	12231304.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.09 g
Analysis Date:	12/23/2013 1652	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/23/2013 1056			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Phenol	75	72	48 - 115	4	35		
Bis(2-chloroethyl)ether	65	62	45 - 115	5	35		
2-Chlorophenol	78	74	48 - 115	6	35		
1,3-Dichlorobenzene	70	67	41 - 115	5	35		
1,4-Dichlorobenzene	73	70	40 - 115	5	35		
Benzyl alcohol	79	76	54 - 115	4	35		
1,2-Dichlorobenzene	73	69	44 - 115	5	35		
2-Methylphenol	76	72	54 - 115	6	35		
Methylphenol, 3 & 4	79	76	42 - 115	4	35		
N-Nitrosodi-n-propylamine	75	72	46 - 115	4	35		
Hexachloroethane	72	69	44 - 115	4	35		
Nitrobenzene	76	71	48 - 115	7	35		
Isophorone	74	70	54 - 115	5	35		
2-Nitrophenol	78	74	48 - 115	5	35		
2,4-Dimethylphenol	76	69	52 - 115	10	35		
Bis(2-chloroethoxy)methane	75	70	46 - 115	6	35		
2,4-Dichlorophenol	81	77	49 - 100	5	35		
1,2,4-Trichlorobenzene	77	73	47 - 115	6	35		
Naphthalene	81	78	44 - 115	4	35		
4-Chloroaniline	64	63	30 - 115	1	35		
Hexachlorobutadiene	80	77	44 - 115	3	35		
4-Chloro-3-methylphenol	82	79	58 - 115	4	35		
2-Methylnaphthalene	79	75	49 - 115	5	35		
Hexachlorocyclopentadiene	78	74	42 - 132	6	35		
2,4,6-Trichlorophenol	83	79	45 - 115	5	35		
2,4,5-Trichlorophenol	82	79	48 - 115	3	35		
2-Chloronaphthalene	81	79	52 - 115	3	35		
2-Nitroaniline	85	82	54 - 115	4	35		
Dimethyl phthalate	83	81	64 - 119	3	35		
Acenaphthylene	81	78	61 - 129	4	35		
3-Nitroaniline	68	69	50 - 115	2	35		
Acenaphthene	84	81	50 - 115	3	35		
2,4-Dinitrophenol	52	50	15 - 115	4	35		
4-Nitrophenol	90	87	54 - 125	4	35		
Dibenzofuran	84	82	55 - 115	3	35		

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-150609

Method: 8270C
Preparation: 3546

LCS Lab Sample ID:	LCS 720-150609/2-A	Analysis Batch:	720-150635	Instrument ID:	SVOA HP 4
Client Matrix:	Solid	Prep Batch:	720-150609	Lab File ID:	12231303.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.07 g
Analysis Date:	12/23/2013 1628	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/23/2013 1056			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 720-150609/3-A	Analysis Batch:	720-150635	Instrument ID:	SVOA HP 4
Client Matrix:	Solid	Prep Batch:	720-150609	Lab File ID:	12231304.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.09 g
Analysis Date:	12/23/2013 1652	Units:	mg/Kg	Final Weight/Volume:	1 mL
Prep Date:	12/23/2013 1056			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
2,4-Dinitrotoluene	83	82	57 - 115	1	35		
2,6-Dinitrotoluene	84	82	54 - 119	3	35		
Diethyl phthalate	82	79	49 - 117	4	35		
4-Chlorophenyl phenyl ether	88	86	57 - 115	3	35		
Fluorene	84	82	54 - 115	3	35		
4-Nitroaniline	79	81	59 - 115	2	35		
2-Methyl-4,6-dinitrophenol	83	76	39 - 115	8	35		
N-Nitrosodiphenylamine	89	85	56 - 115	5	35		
4-Bromophenyl phenyl ether	85	81	53 - 115	4	35		
Hexachlorobenzene	84	83	55 - 115	2	35		
Pentachlorophenol	81	79	35 - 115	3	35		
Phenanthrene	86	84	54 - 115	1	35		
Anthracene	86	82	55 - 115	5	35		
Di-n-butyl phthalate	80	79	55 - 115	2	35		
Fluoranthene	79	78	52 - 130	2	35		
Pyrene	89	89	48 - 115	1	35		
Butyl benzyl phthalate	87	86	53 - 115	2	35		
3,3'-Dichlorobenzidine	68	69	42 - 115	2	35		
Benzo[a]anthracene	84	83	55 - 115	0	35		
Bis(2-ethylhexyl) phthalate	92	91	53 - 115	1	35		
Chrysene	85	85	58 - 115	0	35		
Di-n-octyl phthalate	83	82	53 - 115	1	35		
Benzo[b]fluoranthene	86	91	50 - 119	6	35		
Benzo[a]pyrene	87	86	57 - 122	1	35		
Benzo[k]fluoranthene	90	81	55 - 120	11	35		
Indeno[1,2,3-cd]pyrene	76	76	56 - 115	0	35		
Benzo[g,h,i]perylene	73	73	56 - 115	0	35		
Benzoic acid	58	59	10 - 115	2	35		
Azobenzene	79	78	52 - 115	2	35		
Dibenz(a,h)anthracene	76	76	57 - 121	0	35		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Nitrobenzene-d5	76	71	21 - 98
2-Fluorobiphenyl	79	76	30 - 112
Terphenyl-d14	83	82	32 - 117
2-Fluorophenol	68	64	28 - 98

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Phenol-d5	77	75	23 - 101
2,4,6-Tribromophenol	79	78	37 - 114

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Method Blank - Batch: 720-150650 **Method: 8015B**
Preparation: 3546

Lab Sample ID:	MB 720-150650/1-A	Analysis Batch:	720-150663	Instrument ID:	CHDRO6
Client Matrix:	Solid	Prep Batch:	720-150650	Lab File ID:	FID1000044.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.14 g
Analysis Date:	12/24/2013 0647	Units:	mg/Kg	Final Weight/Volume:	2 mL
Prep Date:	12/23/2013 1628			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		1.0
Motor Oil Range Organics [C24-C36]	ND		50

Surrogate	% Rec	Acceptance Limits
p-Terphenyl	92	40 - 130

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-150650 **Method: 8015B**
Preparation: 3546

LCS Lab Sample ID:	LCS 720-150650/2-A	Analysis Batch:	720-150663	Instrument ID:	CHDRO6
Client Matrix:	Solid	Prep Batch:	720-150650	Lab File ID:	FID1000042.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.24 g
Analysis Date:	12/24/2013 0558	Units:	mg/Kg	Final Weight/Volume:	2 mL
Prep Date:	12/23/2013 1628			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 720-150650/3-A	Analysis Batch:	720-150663	Instrument ID:	CHDRO6
Client Matrix:	Solid	Prep Batch:	720-150650	Lab File ID:	FID1000043.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.16 g
Analysis Date:	12/24/2013 0623	Units:	mg/Kg	Final Weight/Volume:	2 mL
Prep Date:	12/23/2013 1628			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	87	87	50 - 150	1	35		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
p-Terphenyl	95	95	40 - 130

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Method Blank - Batch: 720-150687 **Method: 8015B**
Preparation: 3510C

Lab Sample ID:	MB 720-150687/1-A	Analysis Batch:	720-150674	Instrument ID:	CHDRO5
Client Matrix:	Water	Prep Batch:	720-150687	Lab File ID:	122413b_024.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	12/24/2013 1820	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	12/24/2013 1003			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		99

Surrogate	% Rec	Acceptance Limits
p-Terphenyl	83	23 - 156

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-150687 **Method: 8015B**
Preparation: 3510C

LCS Lab Sample ID:	LCS 720-150687/2-A	Analysis Batch:	720-150674	Instrument ID:	CHDRO5
Client Matrix:	Water	Prep Batch:	720-150687	Lab File ID:	122413b_022.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	12/24/2013 1722	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	12/24/2013 1003			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 720-150687/3-A	Analysis Batch:	720-150674	Instrument ID:	CHDRO5
Client Matrix:	Water	Prep Batch:	720-150687	Lab File ID:	122413b_023.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	12/24/2013 1751	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	12/24/2013 1003			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	81	80	34 - 115	2	35		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
p-Terphenyl	109	114	23 - 156

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Method Blank - Batch: 720-150443

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 720-150443/1-A	Analysis Batch:	720-150519	Instrument ID:	Thermo ICP2
Client Matrix:	Solid	Prep Batch:	720-150443	Lab File ID:	12201301.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	12/20/2013 1205	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/19/2013 1315				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Antimony	ND		0.50
Arsenic	ND		1.0
Barium	ND		0.50
Beryllium	ND		0.10
Cadmium	ND		0.13
Chromium	ND		0.50
Cobalt	ND		0.20
Copper	ND		1.5
Lead	ND		0.50
Molybdenum	ND		0.50
Nickel	ND		0.50
Selenium	ND		1.0
Silver	ND		0.25
Thallium	ND		0.50
Vanadium	ND		0.50
Zinc	ND		1.5

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-150443

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID:	LCS 720-150443/2-A	Analysis Batch:	720-150519	Instrument ID:	Thermo ICP2
Client Matrix:	Solid	Prep Batch:	720-150443	Lab File ID:	12201301.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	12/20/2013 1210	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/19/2013 1315				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 720-150443/3-A	Analysis Batch:	720-150519	Instrument ID:	Thermo ICP2
Client Matrix:	Solid	Prep Batch:	720-150443	Lab File ID:	12201301.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	12/20/2013 1214	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/19/2013 1315				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Antimony	97	96	80 - 120	1	20		
Arsenic	98	96	80 - 120	2	20		
Barium	101	100	80 - 120	1	20		
Beryllium	102	100	80 - 120	2	20		
Cadmium	101	99	80 - 120	2	20		
Chromium	102	99	80 - 120	3	20		
Cobalt	104	102	80 - 120	2	20		
Copper	101	100	80 - 120	2	20		
Lead	102	100	80 - 120	2	20		
Molybdenum	101	99	80 - 120	2	20		
Nickel	101	99	80 - 120	2	20		
Selenium	96	94	80 - 120	2	20		
Silver	98	99	80 - 120	1	20		
Thallium	103	101	80 - 120	2	20		
Vanadium	100	98	80 - 120	2	20		
Zinc	101	98	80 - 120	3	20		

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-150443

Method: 6010B
Preparation: 3050B

MS Lab Sample ID:	720-54453-2	Analysis Batch:	720-150519	Instrument ID:	Thermo ICP2
Client Matrix:	Solid	Prep Batch:	720-150443	Lab File ID:	12201301.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.12 g
Analysis Date:	12/20/2013 1218			Final Weight/Volume:	50 mL
Prep Date:	12/19/2013 1315				
Leach Date:	N/A				

MSD Lab Sample ID:	720-54453-2	Analysis Batch:	720-150519	Instrument ID:	Thermo ICP2
Client Matrix:	Solid	Prep Batch:	720-150443	Lab File ID:	12201301.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	12/20/2013 1223			Final Weight/Volume:	50 mL
Prep Date:	12/19/2013 1315				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	42	38	75 - 125	2	20	F	F
Arsenic	110	117	75 - 125	11	20		
Barium	300	186	75 - 125	18	20	F	F
Beryllium	136	130	75 - 125	3	20	F	F
Cadmium	112	112	75 - 125	7	20		
Chromium	131	146	75 - 125	11	20	F	F
Cobalt	118	116	75 - 125	5	20		
Copper	133	130	75 - 125	3	20	F	F
Lead	161	222	75 - 125	13	20	4	F
Molybdenum	109	106	75 - 125	5	20		
Nickel	101	100	75 - 125	3	20		
Selenium	106	106	75 - 125	7	20		
Silver	131	126	75 - 125	3	20	F	F
Thallium	110	109	75 - 125	7	20		
Vanadium	119	133	75 - 125	11	20		F
Zinc	110	159	75 - 125	12	20		F

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Method Blank - Batch: 720-150474

Method: 6010B
Preparation: 3010A

Lab Sample ID:	MB 720-150474/1-A	Analysis Batch:	720-150545	Instrument ID:	Thermo ICP
Client Matrix:	Water	Prep Batch:	720-150474	Lab File ID:	12201304.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	40 mL
Analysis Date:	12/20/2013 1657	Units:	ug/L	Final Weight/Volume:	40 mL
Prep Date:	12/19/2013 1842				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Antimony	ND		10
Arsenic	ND		10
Barium	ND		5.0
Beryllium	ND		2.0
Cadmium	ND		2.5
Chromium	ND		10
Cobalt	ND		2.0
Copper	ND		20
Lead	ND		5.0
Molybdenum	ND		10
Nickel	ND		10
Selenium	ND		20
Silver	ND		5.0
Thallium	ND		10
Vanadium	ND		10
Zinc	ND		20

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-150474

Method: 6010B
Preparation: 3010A

LCS Lab Sample ID:	LCS 720-150474/2-A	Analysis Batch:	720-150545	Instrument ID:	Thermo ICP
Client Matrix:	Water	Prep Batch:	720-150474	Lab File ID:	12201304.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	40 mL
Analysis Date:	12/20/2013 1702	Units:	ug/L	Final Weight/Volume:	40 mL
Prep Date:	12/19/2013 1842				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 720-150474/3-A	Analysis Batch:	720-150545	Instrument ID:	Thermo ICP
Client Matrix:	Water	Prep Batch:	720-150474	Lab File ID:	12201304.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	40 mL
Analysis Date:	12/20/2013 1706	Units:	ug/L	Final Weight/Volume:	40 mL
Prep Date:	12/19/2013 1842				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Antimony	94	94	80 - 120	0	20		
Arsenic	94	93	80 - 120	1	20		
Barium	96	96	80 - 120	1	20		
Beryllium	95	94	80 - 120	0	20		
Cadmium	95	95	80 - 120	1	20		
Chromium	96	96	80 - 120	0	20		
Cobalt	99	98	80 - 120	0	20		
Copper	96	96	80 - 120	0	20		
Lead	96	96	80 - 120	0	20		
Molybdenum	96	97	80 - 120	0	20		
Nickel	96	96	80 - 120	0	20		
Selenium	91	91	80 - 120	0	20		
Silver	95	94	80 - 120	1	20		
Thallium	96	96	80 - 120	0	20		
Vanadium	94	94	80 - 120	1	20		
Zinc	96	95	80 - 120	1	20		

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Method Blank - Batch: 720-150505

Method: 6010B
Preparation: 3010A

Lab Sample ID:	MB 720-150505/1-A	Analysis Batch:	720-150594	Instrument ID:	Thermo ICP2
Client Matrix:	Water	Prep Batch:	720-150505	Lab File ID:	12211301.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	40 mL
Analysis Date:	12/21/2013 1859	Units:	mg/L	Final Weight/Volume:	40 mL
Prep Date:	12/20/2013 1013				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Lead	ND		0.0050

TCLP SPLPE Leachate Blank - Batch: 720-150505

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	LB 720-150425/1-B	Analysis Batch:	720-150594	Instrument ID:	Thermo ICP2
Client Matrix:	Solid	Prep Batch:	720-150505	Lab File ID:	12211301.asc
Dilution:	1.0	Leach Batch:	720-150425	Initial Weight/Volume:	4 mL
Analysis Date:	12/21/2013 1912	Units:	mg/L	Final Weight/Volume:	40 mL
Prep Date:	12/20/2013 1013				
Leach Date:	12/19/2013 1530				

Analyte	Result	Qual	RL
Lead	ND		0.050

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-150505

Method: 6010B
Preparation: 3010A

LCS Lab Sample ID:	LCS 720-150505/2-A	Analysis Batch:	720-150594	Instrument ID:	Thermo ICP2
Client Matrix:	Water	Prep Batch:	720-150505	Lab File ID:	12211301.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	40 mL
Analysis Date:	12/21/2013 1903	Units:	mg/L	Final Weight/Volume:	40 mL
Prep Date:	12/20/2013 1013				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 720-150505/3-A	Analysis Batch:	720-150594	Instrument ID:	Thermo ICP2
Client Matrix:	Water	Prep Batch:	720-150505	Lab File ID:	12211301.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	40 mL
Analysis Date:	12/21/2013 1907	Units:	mg/L	Final Weight/Volume:	40 mL
Prep Date:	12/20/2013 1013				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	94	95	80 - 120	1	20		

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Method Blank - Batch: 720-150566

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 720-150566/1-A	Analysis Batch:	720-150604	Instrument ID:	Thermo ICP
Client Matrix:	Water	Prep Batch:	720-150566	Lab File ID:	12211301.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	40 mL
Analysis Date:	12/21/2013 1839	Units:	mg/L	Final Weight/Volume:	40 mL
Prep Date:	12/21/2013 1343				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Lead	ND		0.0050

STLC Blank - Batch: 720-150566

Method: 6010B
Preparation: 3005A
STLC Citrate

Lab Sample ID:	LB4 720-150414/1-B	Analysis Batch:	720-150604	Instrument ID:	Thermo ICP
Client Matrix:	Solid	Prep Batch:	720-150566	Lab File ID:	12211301.asc
Dilution:	1.0	Leach Batch:	720-150414	Initial Weight/Volume:	4 mL
Analysis Date:	12/21/2013 1851	Units:	mg/L	Final Weight/Volume:	40 mL
Prep Date:	12/21/2013 1343				
Leach Date:	12/19/2013 0751				

Analyte	Result	Qual	RL
Lead	ND		0.050

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-150566

Method: 6010B
Preparation: 3005A
Total Recoverable

LCS Lab Sample ID:	LCS 720-150566/2-A	Analysis Batch:	720-150604	Instrument ID:	Thermo ICP
Client Matrix:	Water	Prep Batch:	720-150566	Lab File ID:	12211301.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	40 mL
Analysis Date:	12/21/2013 1843	Units:	mg/L	Final Weight/Volume:	40 mL
Prep Date:	12/21/2013 1343				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 720-150566/3-A	Analysis Batch:	720-150604	Instrument ID:	Thermo ICP
Client Matrix:	Water	Prep Batch:	720-150566	Lab File ID:	12211301.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	40 mL
Analysis Date:	12/21/2013 1847	Units:	mg/L	Final Weight/Volume:	40 mL
Prep Date:	12/21/2013 1343				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	86	85	80 - 120	1	20		

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-150566

Method: 6010B
Preparation: 3005A
STLC Citrate

MS Lab Sample ID:	720-54453-2	Analysis Batch:	720-150604	Instrument ID:	Thermo ICP
Client Matrix:	Solid	Prep Batch:	720-150566	Lab File ID:	12211301.asc
Dilution:	1.0	Leach Batch:	720-150414	Initial Weight/Volume:	4 mL
Analysis Date:	12/21/2013 1856			Final Weight/Volume:	40 mL
Prep Date:	12/21/2013 1343				
Leach Date:	12/19/2013 0751				

MSD Lab Sample ID:	720-54453-2	Analysis Batch:	720-150604	Instrument ID:	Thermo ICP
Client Matrix:	Solid	Prep Batch:	720-150566	Lab File ID:	12211301.asc
Dilution:	1.0	Leach Batch:	720-150414	Initial Weight/Volume:	4 mL
Analysis Date:	12/21/2013 1901			Final Weight/Volume:	40 mL
Prep Date:	12/21/2013 1343				
Leach Date:	12/19/2013 0751				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Lead	73	74	75 - 125	1	20	F	F

Preliminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Method Blank - Batch: 720-150423

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 720-150423/1-A	Analysis Batch:	720-150475	Instrument ID:	LL_HG Analyzer
Client Matrix:	Water	Prep Batch:	720-150423	Lab File ID:	W121913A.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/19/2013 1647	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	12/19/2013 0929				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury	ND		0.20

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-150423

Method: 7470A
Preparation: 7470A

LCS Lab Sample ID:	LCS 720-150423/2-A	Analysis Batch:	720-150475	Instrument ID:	LL_HG Analyzer
Client Matrix:	Water	Prep Batch:	720-150423	Lab File ID:	W121913A.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/19/2013 1649	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	12/19/2013 0929				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 720-150423/3-A	Analysis Batch:	720-150475	Instrument ID:	LL_HG Analyzer
Client Matrix:	Water	Prep Batch:	720-150423	Lab File ID:	W121913A.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	12/19/2013 1651	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	12/19/2013 0929				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	99	101	85 - 115	2	20		

Pre Liminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Method Blank - Batch: 720-150398

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 720-150398/1-A	Analysis Batch:	720-150544	Instrument ID:	LL_HG Analyzer
Client Matrix:	Solid	Prep Batch:	720-150398	Lab File ID:	S122013B1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	12/20/2013 1658	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/18/2013 2057				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Mercury	ND		0.010

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 720-150398

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID:	LCS 720-150398/2-A	Analysis Batch:	720-150544	Instrument ID:	LL_HG Analyzer
Client Matrix:	Solid	Prep Batch:	720-150398	Lab File ID:	S122013B1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	12/20/2013 1701	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/18/2013 2057				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 720-150398/3-A	Analysis Batch:	720-150544	Instrument ID:	LL_HG Analyzer
Client Matrix:	Solid	Prep Batch:	720-150398	Lab File ID:	S122013B1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	12/20/2013 1703	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	12/18/2013 2057				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	103	102	80 - 120	1	20		

Pre Liminary Data

Client: Haley & Aldrich, Inc. Job Number: 720-54453-1

Method Blank - Batch: 460-199031

Method: 9012A
Preparation: 9012A

Lab Sample ID:	MB 460-199031/1-A	Analysis Batch:	460-199055	Instrument ID:	Lachat3
Client Matrix:	Solid	Prep Batch:	460-199031	Lab File ID:	OM_12-20-2013_11-10-37
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.5 g
Analysis Date:	12/20/2013 1122	Units:	mg/Kg	Final Weight/Volume:	5.0 mL
Prep Date:	12/20/2013 0700				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Cyanide, Total	ND		0.10

Low Level Control Sample - Batch: 460-199031

Method: 9012A
Preparation: 9012A

Lab Sample ID:	LLCS 460-199031/2-A	Analysis Batch:	460-199055	Instrument ID:	Lachat3
Client Matrix:	Solid	Prep Batch:	460-199031	Lab File ID:	OM_12-20-2013_11-10-37
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.5 g
Analysis Date:	12/20/2013 1123	Units:	mg/Kg	Final Weight/Volume:	5.0 mL
Prep Date:	12/20/2013 0700				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	1.00	0.971	97	90 - 110	

High Level Control Sample - Batch: 460-199031

Method: 9012A
Preparation: 9012A

Lab Sample ID:	HLCS 460-199031/3-A	Analysis Batch:	460-199055	Instrument ID:	Lachat3
Client Matrix:	Solid	Prep Batch:	460-199031	Lab File ID:	OM_12-20-2013_11-10-37
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.5 g
Analysis Date:	12/20/2013 1124	Units:	mg/Kg	Final Weight/Volume:	5.0 mL
Prep Date:	12/20/2013 0700				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	2.00	1.90	95	90 - 110	

Preliminary Data

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-54453

Reference #: 150761

Date 12/18/13 Page 1 of 1

12/26/2013

Report To

Attn: K Guthrie
Company: Haley & Aldrich
Address: 2033 N Main St
Email: KGuthrie@haleyaldrich.com
Bill To: H&A 36970
Sampled By: M Hintz
Attn. AP
Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☒ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals ☒ 6010B ☐ 200.7 ☒ Lead ☐ LUFT ☐ RCRA ☐ Other TCLP, WET	Metals. ☐ 6020 ☐ 200.8 (ICP-MS).	W.E.T (STLC) ☒ W.E.T (DI) ☒ TCLP Pb	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions . ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	free & total cyanide 9010 & 9012B	Number of Containers
IDW-H2O-121813	12/18/13	1000	W	P	X		X	X	X				X			X						X	4
IDW-SO-121813	12/18/13	0950	S	ICE	X		X	X	X				X			X						X	2

RUSH

720-54453 Chain of Custody

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Project Info.

Project Name/ #: Former N Beach 36970
PO#: 36970
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 3.3°C

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | (1 Day) | Other: ASAP

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: Joanne Sebik Time: 1410	Signature: Time: 1445	Signature: Time:
Printed Name: Joanne Sebik Date: 12/18/13	Printed Name: T. Stitt Date: 12/18/13	Printed Name: Date:
Company: Haley & Aldrich	Company: TA	Company:
1) Received by:	**2) Received by:**	**3) Received by:**
Signature: Time: 1410	Signature: Time: 1445	Signature: Time:
Printed Name: T. Stitt Date: 12/18/13	Printed Name: T Bulloca Date: 12/18/13	Printed Name: Date:
Company: TA	Company:	Company:

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-54453-1

Login Number: 54453

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Preliminary Data

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-54453-1

Login Number: 54453
List Number: 1
Creator: Villadarez, Gerson Timothy S

List Source: TestAmerica Edison
List Creation: 12/19/13 11:39 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1°C IR#4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Preliminary Data

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



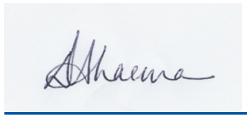
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-54727-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz



Authorized for release by:
1/14/2014 3:44:47 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54727-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-54727-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-54727-1

Comments
No additional comments.

Receipt
The samples were received on 1/8/2014 1:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 1.6° C.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54727-1

Client Sample ID: CF2-B2 (2) — Lab Sample ID: 720-54727-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	19		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	63		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: CS-S10 (1.5) — Lab Sample ID: 720-54727-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.1		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: TS3-S7 (1.5) — Lab Sample ID: 720-54727-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54727-1

Client Sample ID: CF2-B2 (2)
Date Collected: 01/08/14 10:25
Date Received: 01/08/14 13:10

Lab Sample ID: 720-54727-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	19		1.0		mg/Kg		01/10/14 08:53	01/13/14 13:28	1
Motor Oil Range Organics [C24-C36]	63		50		mg/Kg		01/10/14 08:53	01/13/14 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*01/10/14 08:53*	*01/13/14 13:28*	*1*
p-Terphenyl	*88*		*38 - 148*	*01/10/14 08:53*	*01/13/14 13:28*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54727-1

Client Sample ID: CS-S10 (1.5)
Date Collected: 01/08/14 10:40
Date Received: 01/08/14 13:10

Lab Sample ID: 720-54727-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.1**		1.0		mg/Kg		01/10/14 08:53	01/13/14 12:59	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/10/14 08:53	01/13/14 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.0004*		*0 - 1*	*01/10/14 08:53*	*01/13/14 12:59*	*1*
p-Terphenyl	*93*		*38 - 148*	*01/10/14 08:53*	*01/13/14 12:59*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54727-1

Client Sample ID: TS3-S7 (1.5)
Date Collected: 01/08/14 10:50
Date Received: 01/08/14 13:10

Lab Sample ID: 720-54727-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		01/10/14 08:53	01/13/14 12:30	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/10/14 08:53	01/13/14 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 1*	*01/10/14 08:53*	*01/13/14 12:30*	*1*
p-Terphenyl	*101*		*38 - 148*	*01/10/14 08:53*	*01/13/14 12:30*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-151451/1-A
Matrix: Solid
Analysis Batch: 151435

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 151451

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		01/10/14 08:53	01/11/14 05:31	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/10/14 08:53	01/11/14 05:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 1*	*01/10/14 08:53*	*01/11/14 05:31*	*1*
p-Terphenyl	*98*		*38 - 148*	*01/10/14 08:53*	*01/11/14 05:31*	*1*

Lab Sample ID: LCS 720-151451/2-A
Matrix: Solid
Analysis Batch: 151435

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 151451

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.8	51.4		mg/Kg		62	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*102*		*38 - 148*

Lab Sample ID: LCSD 720-151451/3-A
Matrix: Solid
Analysis Batch: 151435

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 151451

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			83.1	48.5		mg/Kg		58	36 - 112	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*103*		*38 - 148*

Lab Sample ID: 720-54727-1 MS
Matrix: Solid
Analysis Batch: 151547

Client Sample ID: CF2-B2 (2)
Prep Type: Silica Gel Cleanup
Prep Batch: 151451

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	19		82.8	78.1		mg/Kg		71	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*104*		*38 - 148*

Lab Sample ID: 720-54727-1 MSD
Matrix: Solid
Analysis Batch: 151547

Client Sample ID: CF2-B2 (2)
Prep Type: Silica Gel Cleanup
Prep Batch: 151451

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	19		82.9	73.7		mg/Kg		66	50 - 150	6	30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-54727-1 MSD
Matrix: Solid
Analysis Batch: 151547

Client Sample ID: CF2-B2 (2)
Prep Type: Silica Gel Cleanup
Prep Batch: 151451

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	*101*		*38 - 148*

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54727-1

GC Semi VOA

Analysis Batch: 151435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-151451/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	151451
LCSD 720-151451/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	151451
MB 720-151451/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	151451

Prep Batch: 151451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54727-1	CF2-B2 (2)	Silica Gel Cleanup	Solid	3546	
720-54727-1 MS	CF2-B2 (2)	Silica Gel Cleanup	Solid	3546	
720-54727-1 MSD	CF2-B2 (2)	Silica Gel Cleanup	Solid	3546	
720-54727-2	CS-S10 (1.5)	Silica Gel Cleanup	Solid	3546	
720-54727-3	TS3-S7 (1.5)	Silica Gel Cleanup	Solid	3546	
LCS 720-151451/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-151451/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-151451/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 151547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54727-1	CF2-B2 (2)	Silica Gel Cleanup	Solid	8015B	151451
720-54727-1 MS	CF2-B2 (2)	Silica Gel Cleanup	Solid	8015B	151451
720-54727-1 MSD	CF2-B2 (2)	Silica Gel Cleanup	Solid	8015B	151451
720-54727-2	CS-S10 (1.5)	Silica Gel Cleanup	Solid	8015B	151451
720-54727-3	TS3-S7 (1.5)	Silica Gel Cleanup	Solid	8015B	151451

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54727-1

Client Sample ID: CF2-B2 (2)

Lab Sample ID: 720-54727-1

Date Collected: 01/08/14 10:25

Matrix: Solid

Date Received: 01/08/14 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			151451	01/10/14 08:53	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	151547	01/13/14 13:28	DCH	TAL PLS

Client Sample ID: CS-S10 (1.5)

Lab Sample ID: 720-54727-2

Date Collected: 01/08/14 10:40

Matrix: Solid

Date Received: 01/08/14 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			151451	01/10/14 08:53	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	151547	01/13/14 12:59	DCH	TAL PLS

Client Sample ID: TS3-S7 (1.5)

Lab Sample ID: 720-54727-3

Date Collected: 01/08/14 10:50

Matrix: Solid

Date Received: 01/08/14 13:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			151451	01/10/14 08:53	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	151547	01/13/14 12:30	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54727-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54727-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54727-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-54727-1	CF2-B2 (2)	Solid	01/08/14 10:25	01/08/14 13:10
720-54727-2	CS-S10 (1.5)	Solid	01/08/14 10:40	01/08/14 13:10
720-54727-3	TS3-S7 (1.5)	Solid	01/08/14 10:50	01/08/14 13:10

TestAmerica
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TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-54727

Reference #: 151022

Date 1/8/14 Page 1 of 1

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St Walnut Creek, CA
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: V. Tilotta
Attn: Accounts Payable
Phone. 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
CF2-B2(2)	1/8/14	1025	Soil	UNP.				X																	1
CS-S10(1.5)	1/8/14	1040	Soil	UNP.				X																	1
CS3-S7(1.5)	1/8/14	1050	Soil	UNP.				X																	1

720-54727 Chain of Custody

Project Info.

Project Name/ #: Former Hanson Aggregates Radum Facility
PO#: 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 1.6°C

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	1310		
Printed Name / Date	Vincent Tilotta 1/8/14		
Company	Haley & Aldrich		

	1) Received by:	2) Received by:	3) Received by:
Signature / Time	1310		
Printed Name / Date	Justin Gonzales 1/8/14		
Company	TAP		

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-54727-1

Login Number: 54727

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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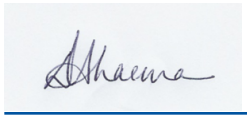
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-54763-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz



Authorized for release by:
1/14/2014 4:21:05 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54763-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-54763-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-54763-1

Comments
No additional comments.

Receipt
The samples were received on 1/9/2014 1:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 1.8º C.

GC/MS Semi VOA
No analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: RL-S3 (2) (720-54763-3), RL-S5 (2) (720-54763-5), RL-S2 (2) (720-54763-2).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54763-1

Client Sample ID: RL-S1 (2) — Lab Sample ID: 720-54763-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	130		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	420		150		mg/Kg	3		8015B	Silica Gel Cleanup

Client Sample ID: RL-S2 (2) — Lab Sample ID: 720-54763-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	170		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	600		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: RL-S3 (2) — Lab Sample ID: 720-54763-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	220		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	500		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: RL-S4 (2) — Lab Sample ID: 720-54763-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	87		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	250		150		mg/Kg	3		8015B	Silica Gel Cleanup

Client Sample ID: RL-S5 (2) — Lab Sample ID: 720-54763-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	170		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	570		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: RL-S6 (2.5) — Lab Sample ID: 720-54763-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	6.1		5.0		ug/Kg	1		8270C SIM	Total/NA
Chrysene	6.7		5.0		ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	7.2		5.0		ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	7.5		5.0		ug/Kg	1		8270C SIM	Total/NA
Pyrene	13		5.0		ug/Kg	1		8270C SIM	Total/NA

Client Sample ID: RL-S7 (5) — Lab Sample ID: 720-54763-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	49		5.0		ug/Kg	1		8270C SIM	Total/NA
Anthracene	58		5.0		ug/Kg	1		8270C SIM	Total/NA
Benzo[a]anthracene	11		5.0		ug/Kg	1		8270C SIM	Total/NA
Benzo[a]pyrene	17		5.0		ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RL-S7 (5) (Continued)

Lab Sample ID: 720-54763-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	27		5.0		ug/Kg	1		8270C SIM	Total/NA
Benzo[g,h,i]perylene	89		5.0		ug/Kg	1		8270C SIM	Total/NA
Benzo[k]fluoranthene	8.2		5.0		ug/Kg	1		8270C SIM	Total/NA
Chrysene	7.2		5.0		ug/Kg	1		8270C SIM	Total/NA
Dibenz(a,h)anthracene	11		5.0		ug/Kg	1		8270C SIM	Total/NA
Fluoranthene	18		5.0		ug/Kg	1		8270C SIM	Total/NA
Indeno[1,2,3-cd]pyrene	41		5.0		ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	8.7		5.0		ug/Kg	1		8270C SIM	Total/NA
Pyrene	16		5.0		ug/Kg	1		8270C SIM	Total/NA

Client Sample ID: RL-S8 (3)

Lab Sample ID: 720-54763-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	11		5.0		ug/Kg	1		8270C SIM	Total/NA
Phenanthrene	5.7		5.0		ug/Kg	1		8270C SIM	Total/NA
Pyrene	9.3		5.0		ug/Kg	1		8270C SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54763-1

Client Sample ID: RL-S1 (2)
Date Collected: 01/09/14 10:20
Date Received: 01/09/14 13:15

Lab Sample ID: 720-54763-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	130		3.0		mg/Kg		01/10/14 08:53	01/11/14 13:32	3
Motor Oil Range Organics [C24-C36]	420		150		mg/Kg		01/10/14 08:53	01/11/14 13:32	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.8*		*0 - 1*	*01/10/14 08:53*	*01/11/14 13:32*	*3*
p-Terphenyl	*90*		*38 - 148*	*01/10/14 08:53*	*01/11/14 13:32*	*3*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54763-1

Client Sample ID: RL-S2 (2)
Date Collected: 01/09/14 10:25
Date Received: 01/09/14 13:15

Lab Sample ID: 720-54763-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	170		5.0		mg/Kg		01/10/14 08:53	01/11/14 14:21	5
Motor Oil Range Organics [C24-C36]	600		250		mg/Kg		01/10/14 08:53	01/11/14 14:21	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*01/10/14 08:53*	*01/11/14 14:21*	*5*
p-Terphenyl	*0*	*D X*	*38 - 148*	*01/10/14 08:53*	*01/11/14 14:21*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54763-1

Client Sample ID: RL-S3 (2)
Date Collected: 01/09/14 10:30
Date Received: 01/09/14 13:15

Lab Sample ID: 720-54763-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	220		5.0		mg/Kg		01/10/14 08:53	01/11/14 03:55	5
Motor Oil Range Organics [C24-C36]	500		250		mg/Kg		01/10/14 08:53	01/11/14 03:55	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*01/10/14 08:53*	*01/11/14 03:55*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*01/10/14 08:53*	*01/11/14 03:55*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54763-1

Client Sample ID: RL-S4 (2)
Date Collected: 01/09/14 10:35
Date Received: 01/09/14 13:15

Lab Sample ID: 720-54763-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	87		3.0		mg/Kg		01/10/14 08:53	01/13/14 10:05	3
Motor Oil Range Organics [C24-C36]	250		150		mg/Kg		01/10/14 08:53	01/13/14 10:05	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.4*		*0 - 1*	*01/10/14 08:53*	*01/13/14 10:05*	*3*
p-Terphenyl	*99*		*38 - 148*	*01/10/14 08:53*	*01/13/14 10:05*	*3*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54763-1

Client Sample ID: RL-S5 (2)
Date Collected: 01/09/14 10:40
Date Received: 01/09/14 13:15

Lab Sample ID: 720-54763-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	170		5.0		mg/Kg		01/10/14 08:53	01/11/14 04:19	5
Motor Oil Range Organics [C24-C36]	570		250		mg/Kg		01/10/14 08:53	01/11/14 04:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*01/10/14 08:53*	*01/11/14 04:19*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*01/10/14 08:53*	*01/11/14 04:19*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54763-1

Client Sample ID: RL-S6 (2.5)
Date Collected: 01/09/14 10:55
Date Received: 01/09/14 13:15

Lab Sample ID: 720-54763-6
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 11:57	1
Acenaphthylene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 11:57	1
Anthracene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 11:57	1
Benzo[a]anthracene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 11:57	1
Benzo[a]pyrene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 11:57	1
Benzo[b]fluoranthene	**6.1**		5.0		ug/Kg		01/10/14 13:16	01/13/14 11:57	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 11:57	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 11:57	1
Chrysene	**6.7**		5.0		ug/Kg		01/10/14 13:16	01/13/14 11:57	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 11:57	1
Fluoranthene	**7.2**		5.0		ug/Kg		01/10/14 13:16	01/13/14 11:57	1
Fluorene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 11:57	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 11:57	1
Naphthalene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 11:57	1
Phenanthrene	**7.5**		5.0		ug/Kg		01/10/14 13:16	01/13/14 11:57	1
Pyrene	**13**		5.0		ug/Kg		01/10/14 13:16	01/13/14 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*33 - 120*	*01/10/14 13:16*	*01/13/14 11:57*	*1*
Terphenyl-d14	*82*		*35 - 146*	*01/10/14 13:16*	*01/13/14 11:57*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54763-1

Client Sample ID: RL-S7 (5)
Date Collected: 01/09/14 11:00
Date Received: 01/09/14 13:15

Lab Sample ID: 720-54763-7
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:20	1
Acenaphthylene	**49**		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:20	1
Anthracene	**58**		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:20	1
Benzo[a]anthracene	**11**		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:20	1
Benzo[a]pyrene	**17**		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:20	1
Benzo[b]fluoranthene	**27**		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:20	1
Benzo[g,h,i]perylene	**89**		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:20	1
Benzo[k]fluoranthene	**8.2**		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:20	1
Chrysene	**7.2**		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:20	1
Dibenz(a,h)anthracene	**11**		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:20	1
Fluoranthene	**18**		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:20	1
Fluorene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:20	1
Indeno[1,2,3-cd]pyrene	**41**		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:20	1
Naphthalene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:20	1
Phenanthrene	**8.7**		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:20	1
Pyrene	**16**		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*33 - 120*	*01/10/14 13:16*	*01/13/14 12:20*	*1*
Terphenyl-d14	*88*		*35 - 146*	*01/10/14 13:16*	*01/13/14 12:20*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54763-1

Client Sample ID: RL-S8 (3)
Date Collected: 01/09/14 11:05
Date Received: 01/09/14 13:15

Lab Sample ID: 720-54763-8
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:43	1
Acenaphthylene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:43	1
Anthracene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:43	1
Benzo[a]anthracene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:43	1
Benzo[a]pyrene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:43	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:43	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:43	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:43	1
Chrysene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:43	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:43	1
Fluoranthene	**11**		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:43	1
Fluorene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:43	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:43	1
Naphthalene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:43	1
Phenanthrene	**5.7**		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:43	1
Pyrene	**9.3**		5.0		ug/Kg		01/10/14 13:16	01/13/14 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*33 - 120*	*01/10/14 13:16*	*01/13/14 12:43*	*1*
Terphenyl-d14	*81*		*35 - 146*	*01/10/14 13:16*	*01/13/14 12:43*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-151467/1-A
Matrix: Solid
Analysis Batch: 151523

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 151467

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 10:01	1
Acenaphthylene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 10:01	1
Anthracene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 10:01	1
Benzo[a]anthracene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 10:01	1
Benzo[a]pyrene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 10:01	1
Benzo[b]fluoranthene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 10:01	1
Benzo[g,h,i]perylene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 10:01	1
Benzo[k]fluoranthene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 10:01	1
Chrysene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 10:01	1
Dibenz(a,h)anthracene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 10:01	1
Fluoranthene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 10:01	1
Fluorene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 10:01	1
Indeno[1,2,3-cd]pyrene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 10:01	1
Naphthalene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 10:01	1
Phenanthrene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 10:01	1
Pyrene	ND		5.0		ug/Kg		01/10/14 13:16	01/13/14 10:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*33 - 120*	*01/10/14 13:16*	*01/13/14 10:01*	*1*
Terphenyl-d14	*94*		*35 - 146*	*01/10/14 13:16*	*01/13/14 10:01*	*1*

Lab Sample ID: LCS 720-151467/2-A
Matrix: Solid
Analysis Batch: 151523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 151467

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	333	201		ug/Kg		60	49 - 120
Acenaphthylene	333	226		ug/Kg		68	52 - 120
Anthracene	333	224		ug/Kg		67	52 - 120
Benzo[a]anthracene	333	245		ug/Kg		73	52 - 120
Benzo[a]pyrene	333	257		ug/Kg		77	54 - 120
Benzo[b]fluoranthene	333	267		ug/Kg		80	51 - 120
Benzo[g,h,i]perylene	333	249		ug/Kg		75	48 - 120
Benzo[k]fluoranthene	333	252		ug/Kg		76	56 - 120
Chrysene	333	230		ug/Kg		69	40 - 120
Dibenz(a,h)anthracene	333	262		ug/Kg		79	50 - 120
Fluoranthene	333	234		ug/Kg		70	57 - 120
Fluorene	333	226		ug/Kg		68	52 - 120
Indeno[1,2,3-cd]pyrene	333	255		ug/Kg		77	48 - 120
Naphthalene	333	191		ug/Kg		57	46 - 120
Phenanthrene	333	208		ug/Kg		62	48 - 120
Pyrene	333	225		ug/Kg		67	53 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*33 - 120*
Terphenyl-d14	*77*		*35 - 146*

Method: 8270C SIM - PAHs by GCMS (SIM) (Continued)

Lab Sample ID: LCSD 720-151467/3-A
Matrix: Solid
Analysis Batch: 151523

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 151467

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			331	213		ug/Kg		64	49 - 120	6	20
Acenaphthylene			331	212		ug/Kg		64	52 - 120	7	20
Anthracene			331	229		ug/Kg		69	52 - 120	2	20
Benzo[a]anthracene			331	247		ug/Kg		75	52 - 120	1	20
Benzo[a]pyrene			331	271		ug/Kg		82	54 - 120	5	20
Benzo[b]fluoranthene			331	280		ug/Kg		84	51 - 120	5	20
Benzo[g,h,i]perylene			331	272		ug/Kg		82	48 - 120	9	20
Benzo[k]fluoranthene			331	285		ug/Kg		86	56 - 120	12	20
Chrysene			331	249		ug/Kg		75	40 - 120	8	20
Dibenz(a,h)anthracene			331	302		ug/Kg		91	50 - 120	14	20
Fluoranthene			331	240		ug/Kg		72	57 - 120	2	20
Fluorene			331	194		ug/Kg		58	52 - 120	15	20
Indeno[1,2,3-cd]pyrene			331	295		ug/Kg		89	48 - 120	14	20
Naphthalene			331	205		ug/Kg		62	46 - 120	7	20
Phenanthrene			331	208		ug/Kg		63	48 - 120	0	20
Pyrene			331	235		ug/Kg		71	53 - 120	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*33 - 120*
Terphenyl-d14	*81*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-151451/1-A
Matrix: Solid
Analysis Batch: 151435

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 151451

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		01/10/14 08:53	01/11/14 05:31	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/10/14 08:53	01/11/14 05:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 1*	*01/10/14 08:53*	*01/11/14 05:31*	*1*
p-Terphenyl	*98*		*38 - 148*	*01/10/14 08:53*	*01/11/14 05:31*	*1*

Lab Sample ID: LCS 720-151451/2-A
Matrix: Solid
Analysis Batch: 151435

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 151451

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.8	51.4		mg/Kg		62	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*102*		*38 - 148*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-151451/3-A
Matrix: Solid
Analysis Batch: 151435

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 151451

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			83.1	48.5		mg/Kg		58	36 - 112	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*103*		*38 - 148*

GC/MS Semi VOA

Prep Batch: 151467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54763-6	RL-S6 (2.5)	Total/NA	Solid	3546	
720-54763-7	RL-S7 (5)	Total/NA	Solid	3546	
720-54763-8	RL-S8 (3)	Total/NA	Solid	3546	
LCS 720-151467/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-151467/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-151467/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 151523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54763-6	RL-S6 (2.5)	Total/NA	Solid	8270C SIM	151467
720-54763-7	RL-S7 (5)	Total/NA	Solid	8270C SIM	151467
720-54763-8	RL-S8 (3)	Total/NA	Solid	8270C SIM	151467
LCS 720-151467/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	151467
LCSD 720-151467/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	151467
MB 720-151467/1-A	Method Blank	Total/NA	Solid	8270C SIM	151467

GC Semi VOA

Analysis Batch: 151435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54763-3	RL-S3 (2)	Silica Gel Cleanup	Solid	8015B	151451
720-54763-5	RL-S5 (2)	Silica Gel Cleanup	Solid	8015B	151451
LCS 720-151451/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	151451
LCSD 720-151451/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	151451
MB 720-151451/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	151451

Prep Batch: 151451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54763-1	RL-S1 (2)	Silica Gel Cleanup	Solid	3546	
720-54763-2	RL-S2 (2)	Silica Gel Cleanup	Solid	3546	
720-54763-3	RL-S3 (2)	Silica Gel Cleanup	Solid	3546	
720-54763-4	RL-S4 (2)	Silica Gel Cleanup	Solid	3546	
720-54763-5	RL-S5 (2)	Silica Gel Cleanup	Solid	3546	
LCS 720-151451/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-151451/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-151451/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 151519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54763-1	RL-S1 (2)	Silica Gel Cleanup	Solid	8015B	151451
720-54763-2	RL-S2 (2)	Silica Gel Cleanup	Solid	8015B	151451

Analysis Batch: 151531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-54763-4	RL-S4 (2)	Silica Gel Cleanup	Solid	8015B	151451

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54763-1

Client Sample ID: RL-S1 (2)

Lab Sample ID: 720-54763-1

Date Collected: 01/09/14 10:20

Matrix: Solid

Date Received: 01/09/14 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			151451	01/10/14 08:53	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	151519	01/11/14 13:32	DCH	TAL PLS

Client Sample ID: RL-S2 (2)

Lab Sample ID: 720-54763-2

Date Collected: 01/09/14 10:25

Matrix: Solid

Date Received: 01/09/14 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			151451	01/10/14 08:53	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	151519	01/11/14 14:21	DCH	TAL PLS

Client Sample ID: RL-S3 (2)

Lab Sample ID: 720-54763-3

Date Collected: 01/09/14 10:30

Matrix: Solid

Date Received: 01/09/14 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			151451	01/10/14 08:53	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	151435	01/11/14 03:55	JL	TAL PLS

Client Sample ID: RL-S4 (2)

Lab Sample ID: 720-54763-4

Date Collected: 01/09/14 10:35

Matrix: Solid

Date Received: 01/09/14 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			151451	01/10/14 08:53	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	151531	01/13/14 10:05	JL	TAL PLS

Client Sample ID: RL-S5 (2)

Lab Sample ID: 720-54763-5

Date Collected: 01/09/14 10:40

Matrix: Solid

Date Received: 01/09/14 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			151451	01/10/14 08:53	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	151435	01/11/14 04:19	JL	TAL PLS

Client Sample ID: RL-S6 (2.5)

Lab Sample ID: 720-54763-6

Date Collected: 01/09/14 10:55

Matrix: Solid

Date Received: 01/09/14 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			151467	01/10/14 13:16	MRP	TAL PLS
Total/NA	Analysis	8270C SIM		1	151523	01/13/14 11:57	MQL	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54763-1

Client Sample ID: RL-S7 (5)

Lab Sample ID: 720-54763-7

Date Collected: 01/09/14 11:00

Matrix: Solid

Date Received: 01/09/14 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			151467	01/10/14 13:16	MRP	TAL PLS
Total/NA	Analysis	8270C SIM		1	151523	01/13/14 12:20	MQL	TAL PLS

Client Sample ID: RL-S8 (3)

Lab Sample ID: 720-54763-8

Date Collected: 01/09/14 11:05

Matrix: Solid

Date Received: 01/09/14 13:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			151467	01/10/14 13:16	MRP	TAL PLS
Total/NA	Analysis	8270C SIM		1	151523	01/13/14 12:43	MQL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54763-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54763-1

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-54763-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-54763-1	RL-S1 (2)	Solid	01/09/14 10:20	01/09/14 13:15
720-54763-2	RL-S2 (2)	Solid	01/09/14 10:25	01/09/14 13:15
720-54763-3	RL-S3 (2)	Solid	01/09/14 10:30	01/09/14 13:15
720-54763-4	RL-S4 (2)	Solid	01/09/14 10:35	01/09/14 13:15
720-54763-5	RL-S5 (2)	Solid	01/09/14 10:40	01/09/14 13:15
720-54763-6	RL-S6 (2.5)	Solid	01/09/14 10:55	01/09/14 13:15
720-54763-7	RL-S7 (5)	Solid	01/09/14 11:00	01/09/14 13:15
720-54763-8	RL-S8 (3)	Solid	01/09/14 11:05	01/09/14 13:15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-54763

Reference #: 151058

Date 1/9/14 Page 1 of 1

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. main St. walnut creek, CA
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: V. Tilotta
Attn: Accounts payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B: ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☒ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS)	☐ WET (STLC) ☐ WET (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
RL-S1 (2)	1/9/14	1020	Soil	Unp				X																	1
RL-S2 (2)		1025						X																	1
RL-S3 (2)		1030						X																	1
RL-S4 (2)		1035						X																	1
RL-S5 (2)		1040						X																	1
RL-S6 (2.5)		1055								X															1
RL-S7 (5)		1100								X															1
RL-S8 (3)	↓	1105	↓	↓						X															1

720-54763 Chain of Custody

Page 24 of 25

Project Info.

Project Name/ #: Former Hangar Aggregates Radium Facility
PO#: 39792
Credit Card Y/N:

Sample Receipt

of Containers:
Head Space:
Temp: 1.8°C

If yes, please call with payment information ASAP

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by: [signature] Time: 1315
Printed Name: Vincent Tilotta Date: 1/9/14
Company: Haley & Aldrich

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by:
Signature Time
Printed Name Date
Company

1) Received by: [signature] Time: 1315
Printed Name: Justin Giorgi Date: 1/9/14
Company: TAP

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by:
Signature Time
Printed Name Date
Company

Rev.10/2012

1/14/2014

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-54763-1

Login Number: 54763

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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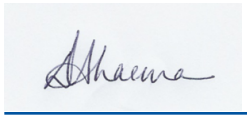
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-55193-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz



Authorized for release by:
2/6/2014 4:00:24 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-55193-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-55193-1

Job ID: 720-55193-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-55193-1

Comments
No additional comments.

Receipt
The samples were received on 1/30/2014 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 9.1° C.

GC/MS Semi VOA
Method 8270C SIM: The following sample was diluted due to the abundance of non-target analytes: EX3/4-S9(3) (720-55193-3), EX6-S15(4) (720-55193-1), EX6-S16(4) (720-55193-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA
Method 8015B: The following sample required a dilution due to the nature of the sample matrix: EX6-S15(4) (720-55193-1), EX6-S16(4) (720-55193-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-55193-1

Client Sample ID: EX6-S15(4) — Lab Sample ID: 720-55193-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	62		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	400		250		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: EX6-S16(4) — Lab Sample ID: 720-55193-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	660		10		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1100		500		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: EX3/4-S9(3) — Lab Sample ID: 720-55193-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	26		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	76		50		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-55193-1

Client Sample ID: EX6-S15(4)
Date Collected: 01/30/14 09:25
Date Received: 01/30/14 10:15

Lab Sample ID: 720-55193-1
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		50		ug/Kg		01/30/14 20:06	02/04/14 18:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*33 - 120*	*01/30/14 20:06*	*02/04/14 18:30*	*10*
Terphenyl-d14	*125*		*35 - 146*	*01/30/14 20:06*	*02/04/14 18:30*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**62**		5.0		mg/Kg		01/30/14 20:15	01/31/14 16:54	5
Motor Oil Range Organics [C24-C36]	**400**		250		mg/Kg		01/30/14 20:15	01/31/14 16:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*01/30/14 20:15*	*01/31/14 16:54*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*01/30/14 20:15*	*01/31/14 16:54*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-55193-1

Client Sample ID: EX6-S16(4)
Date Collected: 01/30/14 09:30
Date Received: 01/30/14 10:15

Lab Sample ID: 720-55193-2
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		49		ug/Kg		01/30/14 20:06	02/04/14 18:53	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*91*		*33 - 120*	*01/30/14 20:06*	*02/04/14 18:53*	*10*
Terphenyl-d14	*113*		*35 - 146*	*01/30/14 20:06*	*02/04/14 18:53*	*10*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**660**		10		mg/Kg		01/30/14 20:15	01/31/14 15:56	10
Motor Oil Range Organics [C24-C36]	**1100**		500		mg/Kg		01/30/14 20:15	01/31/14 15:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*01/30/14 20:15*	*01/31/14 15:56*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*01/30/14 20:15*	*01/31/14 15:56*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-55193-1

Client Sample ID: EX3/4-S9(3)
Date Collected: 01/30/14 09:35
Date Received: 01/30/14 10:15

Lab Sample ID: 720-55193-3
Matrix: Solid

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		9.9		ug/Kg		01/30/14 20:06	02/04/14 19:16	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*33 - 120*	*01/30/14 20:06*	*02/04/14 19:16*	*2*
Terphenyl-d14	*103*		*35 - 146*	*01/30/14 20:06*	*02/04/14 19:16*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**26**		0.99		mg/Kg		01/30/14 20:15	01/31/14 14:58	1
Motor Oil Range Organics [C24-C36]	**76**		50		mg/Kg		01/30/14 20:15	01/31/14 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.2*		*0 - 1*	*01/30/14 20:15*	*01/31/14 14:58*	*1*
p-Terphenyl	*97*		*38 - 148*	*01/30/14 20:15*	*01/31/14 14:58*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-152637/1-A
Matrix: Solid
Analysis Batch: 152642

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 152637

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		4.9		ug/Kg		01/30/14 08:36	01/30/14 22:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*33 - 120*	*01/30/14 08:36*	*01/30/14 22:19*	*1*
Terphenyl-d14	*87*		*35 - 146*	*01/30/14 08:36*	*01/30/14 22:19*	*1*

Lab Sample ID: LCS 720-152637/2-A
Matrix: Solid
Analysis Batch: 152733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 152637

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			332	221		ug/Kg		66	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*33 - 120*
Terphenyl-d14	*84*		*35 - 146*

Lab Sample ID: LCSD 720-152637/3-A
Matrix: Solid
Analysis Batch: 152733

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 152637

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			331	220		ug/Kg		67	46 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*33 - 120*
Terphenyl-d14	*83*		*35 - 146*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-152686/1-A
Matrix: Solid
Analysis Batch: 152648

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 152686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		01/30/14 17:12	01/31/14 00:45	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/30/14 17:12	01/31/14 00:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*01/30/14 17:12*	*01/31/14 00:45*	*1*
p-Terphenyl	*98*		*38 - 148*	*01/30/14 17:12*	*01/31/14 00:45*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-152686/2-A
Matrix: Solid
Analysis Batch: 152648

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 152686

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			83.2	64.7		mg/Kg		78	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*119*		*38 - 148*

Lab Sample ID: LCSD 720-152686/3-A
Matrix: Solid
Analysis Batch: 152648

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 152686

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.5	63.6		mg/Kg		77	36 - 112	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*111*		*38 - 148*

GC/MS Semi VOA

Prep Batch: 152637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55193-1	EX6-S15(4)	Total/NA	Solid	3546	
720-55193-2	EX6-S16(4)	Total/NA	Solid	3546	
720-55193-3	EX3/4-S9(3)	Total/NA	Solid	3546	
LCS 720-152637/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-152637/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-152637/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 152642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-152637/1-A	Method Blank	Total/NA	Solid	8270C SIM	152637

Analysis Batch: 152733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-152637/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	152637
LCSD 720-152637/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	152637

Analysis Batch: 152900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55193-1	EX6-S15(4)	Total/NA	Solid	8270C SIM	152637
720-55193-2	EX6-S16(4)	Total/NA	Solid	8270C SIM	152637
720-55193-3	EX3/4-S9(3)	Total/NA	Solid	8270C SIM	152637

GC Semi VOA

Analysis Batch: 152648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-152686/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	152686
LCSD 720-152686/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	152686
MB 720-152686/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	152686

Prep Batch: 152686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55193-1	EX6-S15(4)	Silica Gel Cleanup	Solid	3546	
720-55193-2	EX6-S16(4)	Silica Gel Cleanup	Solid	3546	
720-55193-3	EX3/4-S9(3)	Silica Gel Cleanup	Solid	3546	
LCS 720-152686/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-152686/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-152686/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 152717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55193-1	EX6-S15(4)	Silica Gel Cleanup	Solid	8015B	152686
720-55193-2	EX6-S16(4)	Silica Gel Cleanup	Solid	8015B	152686
720-55193-3	EX3/4-S9(3)	Silica Gel Cleanup	Solid	8015B	152686

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-55193-1

Client Sample ID: EX6-S15(4)

Lab Sample ID: 720-55193-1

Date Collected: 01/30/14 09:25

Matrix: Solid

Date Received: 01/30/14 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			152637	01/30/14 20:06	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		10	152900	02/04/14 18:30	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			152686	01/30/14 20:15	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	152717	01/31/14 16:54	DCH	TAL PLS

Client Sample ID: EX6-S16(4)

Lab Sample ID: 720-55193-2

Date Collected: 01/30/14 09:30

Matrix: Solid

Date Received: 01/30/14 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			152637	01/30/14 20:06	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		10	152900	02/04/14 18:53	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			152686	01/30/14 20:15	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	152717	01/31/14 15:56	DCH	TAL PLS

Client Sample ID: EX3/4-S9(3)

Lab Sample ID: 720-55193-3

Date Collected: 01/30/14 09:35

Matrix: Solid

Date Received: 01/30/14 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			152637	01/30/14 20:06	NDU	TAL PLS
Total/NA	Analysis	8270C SIM		2	152900	02/04/14 19:16	MQL	TAL PLS
Silica Gel Cleanup	Prep	3546			152686	01/30/14 20:15	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	152717	01/31/14 14:58	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-55193-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-55193-1

Method	Method Description	Protocol	Laboratory
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-55193-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-55193-1	EX6-S15(4)	Solid	01/30/14 09:25	01/30/14 10:15
720-55193-2	EX6-S16(4)	Solid	01/30/14 09:30	01/30/14 10:15
720-55193-3	EX3/4-S9(3)	Solid	01/30/14 09:35	01/30/14 10:15

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720-55193

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane ● Pleasanton CA 94566-4756
Phone: (925) 484-1919 ● Fax: (925) 600-3002

Reference #: 151491

Date 1/30/14 Page 1 of 1

2/6/2014

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St. Walnut Creek, CA
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: V. Tilotta
Attn: Accounts Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B. ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	Semi Volatile Organics GC/MS ☐ EPA 8270C	PNA/PAHs by ☐ 8270C ☒ 8270C SIM NAPTHALENE	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS)	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 8040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
EX6-S15(4)	1/30/14	0925	Soil	Ice				X		X															1
EX6-S16(4)	↓	0930	↓	↓				X		X															1
EX3/4-S9(3)	↓	0935	↓	↓				X		X															1

720-55193 Chain of Custody

Page 16 of 17

Project Info.

Project Name/ #: Former Hanson Aggregates Radom Facility
PO#: 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 9.1 C

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1015	Signature: Time:	Signature: Time:
Printed Name: Vincent Tilotta Date: 1/30/14	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1015	Signature: Time:	Signature: Time:
Printed Name: Mullen Date: 1-30-14	Printed Name: Date:	Printed Name: Date:
Company: test Am	Company:	Company:

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-55193-1

Login Number: 55193

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-55284-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz

Authorized for release by:
2/12/2014 5:43:05 PM
Micah Smith, Project Manager I
( )
micah.smith@testamericainc.com

Designee for

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-55284-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-55284-1

Comments
No additional comments.

Receipt
The sample was received on 2/4/2014 3:45 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 15.6º C.

GC/MS Semi VOA
Method(s) 8270C: Surrogate recovery for the following sample(s) was outside the upper control limit: (MB 720-153183/1-A). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270C: The following sample(s) was diluted due to the abundance of non-target analytes: GX6-S17(8) (720-55284-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: The following sample(s) required a dilution due to the nature of the sample matrix: GX6-S17(8) (720-55284-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: The following sample(s) required a dilution due to the nature of the sample matrix: (720-55284-1 MS), (720-55284-1 MSD), GX6-S17(8) (720-55284-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for batch 153182 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8015B: The method blank for batch 153182 contained C10-C36 above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-55284-1

Client Sample ID: GX6-S17(8)

Lab Sample ID: 720-55284-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	490		55		ug/L	1		8015B	STLC DI
Motor Oil Range Organics [C24-C36]	440		110		ug/L	1		8015B	STLC DI
Total Extractable Hydrocarbons [C10-C36]	520		55		ug/L	1		8015B	STLC DI
Diesel Range Organics [C10-C28]	29000		1400		mg/Kg	50		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	130000		71000		mg/Kg	50		8015B	Total/NA
Total Extractable Hydrocarbons [C10-C36]	82000	B	1400		mg/Kg	50		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-55284-1

Client Sample ID: GX6-S17(8)
Date Collected: 02/04/14 15:00
Date Received: 02/04/14 15:45

Lab Sample ID: 720-55284-1
Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Bis(2-chloroethyl)ether	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
2-Chlorophenol	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
1,3-Dichlorobenzene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
1,4-Dichlorobenzene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Benzyl alcohol	ND		200		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
1,2-Dichlorobenzene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
2-Methylphenol	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
4-Methylphenol	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
N-Nitrosodi-n-propylamine	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Hexachloroethane	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Nitrobenzene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Isophorone	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
2-Nitrophenol	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
2,4-Dimethylphenol	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Bis(2-chloroethoxy)methane	ND		200		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
2,4-Dichlorophenol	ND		390		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
1,2,4-Trichlorobenzene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Naphthalene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
4-Chloroaniline	ND		200		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Hexachlorobutadiene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
4-Chloro-3-methylphenol	ND		200		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
2-Methylnaphthalene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Hexachlorocyclopentadiene	ND		200		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
2,4,6-Trichlorophenol	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
2,4,5-Trichlorophenol	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
2-Chloronaphthalene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
2-Nitroaniline	ND		390		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Dimethyl phthalate	ND		200		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Acenaphthylene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
3-Nitroaniline	ND		200		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Acenaphthene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
2,4-Dinitrophenol	ND		390		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
4-Nitrophenol	ND		390		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Dibenzofuran	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
2,4-Dinitrotoluene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
2,6-Dinitrotoluene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Diethyl phthalate	ND		200		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
4-Chlorophenyl phenyl ether	ND		200		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Fluorene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
4-Nitroaniline	ND		390		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
2-Methyl-4,6-dinitrophenol	ND		390		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
N-Nitrosodiphenylamine	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
4-Bromophenyl phenyl ether	ND		200		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Hexachlorobenzene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Pentachlorophenol	ND		390		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Phenanthrene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Anthracene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Di-n-butyl phthalate	ND		200		mg/Kg		02/07/14 14:16	02/10/14 23:57	20

Client Sample ID: GX6-S17(8)
Date Collected: 02/04/14 15:00
Date Received: 02/04/14 15:45

Lab Sample ID: 720-55284-1
Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Pyrene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Butyl benzyl phthalate	ND		200		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
3,3'-Dichlorobenzidine	ND		390		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Benzo[a]anthracene	ND		390		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Bis(2-ethylhexyl) phthalate	ND		390		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Chrysene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Di-n-octyl phthalate	ND		200		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Benzo[b]fluoranthene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Benzo[a]pyrene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Benzo[k]fluoranthene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Indeno[1,2,3-cd]pyrene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Benzo[g,h,i]perylene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Benzoic acid	ND		390		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Azobenzene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20
Dibenz(a,h)anthracene	ND		79		mg/Kg		02/07/14 14:16	02/10/14 23:57	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*0*	*D X*	*27 - 116*	*02/07/14 14:16*	*02/10/14 23:57*	*20*
2-Fluorobiphenyl	*0*	*D X*	*30 - 112*	*02/07/14 14:16*	*02/10/14 23:57*	*20*
Terphenyl-d14	*0*	*D X*	*32 - 117*	*02/07/14 14:16*	*02/10/14 23:57*	*20*
2-Fluorophenol	*0*	*D X*	*28 - 98*	*02/07/14 14:16*	*02/10/14 23:57*	*20*
Phenol-d5	*0*	*D X*	*23 - 101*	*02/07/14 14:16*	*02/10/14 23:57*	*20*
2,4,6-Tribromophenol	*0*	*D X*	*37 - 114*	*02/07/14 14:16*	*02/10/14 23:57*	*20*

Method: 8015B - Diesel Range Organics (DRO) (GC) - STLC DI

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**490**		55		ug/L		02/11/14 14:28	02/11/14 22:01	1
Motor Oil Range Organics [C24-C36]	**440**		110		ug/L		02/11/14 14:28	02/11/14 22:01	1
Total Extractable Hydrocarbons [C10-C36]	**520**		55		ug/L		02/11/14 14:28	02/11/14 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*69*		*23 - 156*	*02/11/14 14:28*	*02/11/14 22:01*	*1*

Method: 8015B - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**29000**		1400		mg/Kg		02/07/14 14:11	02/08/14 12:50	50
Motor Oil Range Organics [C24-C36]	**130000**		71000		mg/Kg		02/07/14 14:11	02/08/14 12:50	50
Total Extractable Hydrocarbons [C10-C36]	**82000**	**B**	1400		mg/Kg		02/07/14 14:11	02/08/14 12:50	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*D X*	*31 - 114*	*02/07/14 14:11*	*02/08/14 12:50*	*50*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-55284-1

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Lab Sample ID: MB 720-153183/1-A
Matrix: Solid
Analysis Batch: 153255

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 153183

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Bis(2-chloroethyl)ether	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
2-Chlorophenol	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
1,3-Dichlorobenzene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
1,4-Dichlorobenzene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Benzyl alcohol	ND		0.17		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
1,2-Dichlorobenzene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
2-Methylphenol	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
4-Methylphenol	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
N-Nitrosodi-n-propylamine	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Hexachloroethane	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Nitrobenzene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Isophorone	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
2-Nitrophenol	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
2,4-Dimethylphenol	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
1,2,4-Trichlorobenzene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Naphthalene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
4-Chloroaniline	ND		0.17		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Hexachlorobutadiene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
2-Methylnaphthalene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
2,4,6-Trichlorophenol	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
2,4,5-Trichlorophenol	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
2-Chloronaphthalene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
2-Nitroaniline	ND		0.33		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Dimethyl phthalate	ND		0.17		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Acenaphthylene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
3-Nitroaniline	ND		0.17		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Acenaphthene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
2,4-Dinitrophenol	ND		0.33		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
4-Nitrophenol	ND		0.33		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Dibenzofuran	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
2,4-Dinitrotoluene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
2,6-Dinitrotoluene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Diethyl phthalate	ND		0.17		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Fluorene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
4-Nitroaniline	ND		0.33		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
N-Nitrosodiphenylamine	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Hexachlorobenzene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Pentachlorophenol	ND		0.33		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Phenanthrene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Anthracene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: MB 720-153183/1-A
Matrix: Solid
Analysis Batch: 153255

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 153183

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	ND		0.17		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Fluoranthene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Pyrene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
3,3'-Dichlorobenzidine	ND		0.33		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Benzo[a]anthracene	ND		0.33		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Chrysene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Benzo[b]fluoranthene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Benzo[a]pyrene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Benzo[k]fluoranthene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Indeno[1,2,3-cd]pyrene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Benzo[g,h,i]perylene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Benzoic acid	ND		0.33		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Azobenzene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1
Dibenz(a,h)anthracene	ND		0.067		mg/Kg		02/07/14 14:16	02/10/14 21:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*87*		*27 - 116*	*02/07/14 14:16*	*02/10/14 21:10*	*1*
2-Fluorobiphenyl	*93*		*30 - 112*	*02/07/14 14:16*	*02/10/14 21:10*	*1*
Terphenyl-d14	*119*	*X*	*32 - 117*	*02/07/14 14:16*	*02/10/14 21:10*	*1*
2-Fluorophenol	*83*		*28 - 98*	*02/07/14 14:16*	*02/10/14 21:10*	*1*
Phenol-d5	*70*		*23 - 101*	*02/07/14 14:16*	*02/10/14 21:10*	*1*
2,4,6-Tribromophenol	*118*	*X*	*37 - 114*	*02/07/14 14:16*	*02/10/14 21:10*	*1*

Lab Sample ID: LCS 720-153183/2-A
Matrix: Solid
Analysis Batch: 153255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.33	1.03		mg/Kg		77	48 - 115
Bis(2-chloroethyl)ether	1.33	0.884		mg/Kg		66	45 - 115
2-Chlorophenol	1.33	0.970		mg/Kg		73	48 - 115
1,3-Dichlorobenzene	1.33	0.883		mg/Kg		66	41 - 115
1,4-Dichlorobenzene	1.33	0.894		mg/Kg		67	40 - 115
Benzyl alcohol	1.33	0.931		mg/Kg		70	54 - 115
1,2-Dichlorobenzene	1.33	0.905		mg/Kg		68	44 - 115
2-Methylphenol	1.33	0.957		mg/Kg		72	54 - 115
4-Methylphenol	1.33	0.908		mg/Kg		68	50 - 115
N-Nitrosodi-n-propylamine	1.33	1.01		mg/Kg		76	46 - 115
Hexachloroethane	1.33	0.833		mg/Kg		62	44 - 115
Nitrobenzene	1.33	0.908		mg/Kg		68	48 - 115
Isophorone	1.33	1.11		mg/Kg		83	54 - 115
2-Nitrophenol	1.33	1.00		mg/Kg		75	48 - 115
2,4-Dimethylphenol	1.33	1.00		mg/Kg		75	52 - 115
Bis(2-chloroethoxy)methane	1.33	0.978		mg/Kg		73	46 - 115

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-153183/2-A
Matrix: Solid
Analysis Batch: 153255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dichlorophenol	1.33	0.956		mg/Kg		72	49 - 100
1,2,4-Trichlorobenzene	1.33	0.929		mg/Kg		70	47 - 115
Naphthalene	1.33	0.965		mg/Kg		72	44 - 115
4-Chloroaniline	1.33	0.794		mg/Kg		60	30 - 115
Hexachlorobutadiene	1.33	0.962		mg/Kg		72	44 - 115
4-Chloro-3-methylphenol	1.33	1.12		mg/Kg		84	58 - 115
2-Methylnaphthalene	1.33	1.01		mg/Kg		75	49 - 115
Hexachlorocyclopentadiene	1.33	1.02		mg/Kg		76	42 - 132
2,4,6-Trichlorophenol	1.33	1.15		mg/Kg		86	45 - 115
2,4,5-Trichlorophenol	1.33	1.17		mg/Kg		88	48 - 115
2-Chloronaphthalene	1.33	1.02		mg/Kg		76	52 - 115
2-Nitroaniline	1.33	1.25		mg/Kg		94	54 - 115
Dimethyl phthalate	1.33	1.21		mg/Kg		91	64 - 119
Acenaphthylene	1.33	1.14		mg/Kg		86	61 - 129
3-Nitroaniline	1.33	1.04		mg/Kg		78	50 - 115
Acenaphthene	1.33	1.08		mg/Kg		81	50 - 115
2,4-Dinitrophenol	2.67	2.49		mg/Kg		94	21 - 115
4-Nitrophenol	2.67	2.56		mg/Kg		96	54 - 125
Dibenzofuran	1.33	1.17		mg/Kg		88	55 - 115
2,4-Dinitrotoluene	1.33	1.30		mg/Kg		97	57 - 115
2,6-Dinitrotoluene	1.33	1.30		mg/Kg		98	54 - 119
Diethyl phthalate	1.33	1.15		mg/Kg		86	49 - 117
4-Chlorophenyl phenyl ether	1.33	1.18		mg/Kg		89	57 - 115
Fluorene	1.33	1.23		mg/Kg		92	54 - 115
4-Nitroaniline	1.33	1.21		mg/Kg		90	59 - 115
2-Methyl-4,6-dinitrophenol	2.67	2.53		mg/Kg		95	48 - 115
N-Nitrosodiphenylamine	1.33	1.24		mg/Kg		93	56 - 115
4-Bromophenyl phenyl ether	1.33	1.16		mg/Kg		87	53 - 115
Hexachlorobenzene	1.33	1.22		mg/Kg		91	55 - 115
Pentachlorophenol	2.67	2.51		mg/Kg		94	35 - 115
Phenanthrene	1.33	1.22		mg/Kg		92	54 - 115
Anthracene	1.33	1.20		mg/Kg		90	55 - 115
Di-n-butyl phthalate	1.33	1.23		mg/Kg		93	55 - 115
Fluoranthene	1.33	1.34		mg/Kg		101	54 - 115
Pyrene	1.33	1.23		mg/Kg		93	48 - 115
Butyl benzyl phthalate	1.33	1.32		mg/Kg		99	53 - 115
3,3'-Dichlorobenzidine	1.33	1.01		mg/Kg		76	42 - 115
Benzo[a]anthracene	1.33	1.27		mg/Kg		95	55 - 115
Bis(2-ethylhexyl) phthalate	1.33	1.30		mg/Kg		97	53 - 115
Chrysene	1.33	1.25		mg/Kg		94	58 - 115
Di-n-octyl phthalate	1.33	1.33		mg/Kg		99	53 - 115
Benzo[b]fluoranthene	1.33	1.20		mg/Kg		90	56 - 115
Benzo[a]pyrene	1.33	1.23		mg/Kg		92	55 - 115
Benzo[k]fluoranthene	1.33	1.26		mg/Kg		94	57 - 115
Indeno[1,2,3-cd]pyrene	1.33	1.19		mg/Kg		89	56 - 115
Benzo[g,h,i]perylene	1.33	1.14		mg/Kg		86	56 - 115
Benzoic acid	1.33	1.05		mg/Kg		78	10 - 115

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-153183/2-A
Matrix: Solid
Analysis Batch: 153255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153183

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Azobenzene			1.33	1.14		mg/Kg		85	52 - 115		
Dibenz(a,h)anthracene			1.33	1.19		mg/Kg		89	58 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*76*		*27 - 116*
2-Fluorobiphenyl	*86*		*30 - 112*
Terphenyl-d14	*105*		*32 - 117*
2-Fluorophenol	*75*		*28 - 98*
Phenol-d5	*67*		*23 - 101*
2,4,6-Tribromophenol	*119*	*X*	*37 - 114*

Lab Sample ID: LCSD 720-153183/3-A
Matrix: Solid
Analysis Batch: 153255

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 153183

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol			1.33	0.895		mg/Kg		67	48 - 115	14	35
Bis(2-chloroethyl)ether			1.33	0.872		mg/Kg		65	45 - 115	1	35
2-Chlorophenol			1.33	0.928		mg/Kg		70	48 - 115	4	35
1,3-Dichlorobenzene			1.33	0.815		mg/Kg		61	41 - 115	8	35
1,4-Dichlorobenzene			1.33	0.904		mg/Kg		68	40 - 115	1	35
Benzyl alcohol			1.33	0.909		mg/Kg		68	54 - 115	2	35
1,2-Dichlorobenzene			1.33	0.867		mg/Kg		65	44 - 115	4	35
2-Methylphenol			1.33	0.946		mg/Kg		71	54 - 115	1	35
4-Methylphenol			1.33	0.883		mg/Kg		66	50 - 115	3	35
N-Nitrosodi-n-propylamine			1.33	0.978		mg/Kg		73	46 - 115	3	35
Hexachloroethane			1.33	0.822		mg/Kg		62	44 - 115	1	35
Nitrobenzene			1.33	0.931		mg/Kg		70	48 - 115	2	35
Isophorone			1.33	1.03		mg/Kg		77	54 - 115	7	35
2-Nitrophenol			1.33	0.969		mg/Kg		73	48 - 115	3	35
2,4-Dimethylphenol			1.33	0.915		mg/Kg		69	52 - 115	9	35
Bis(2-chloroethoxy)methane			1.33	0.927		mg/Kg		70	46 - 115	5	35
2,4-Dichlorophenol			1.33	0.879		mg/Kg		66	49 - 100	8	35
1,2,4-Trichlorobenzene			1.33	0.905		mg/Kg		68	47 - 115	3	35
Naphthalene			1.33	0.925		mg/Kg		69	44 - 115	4	35
4-Chloroaniline			1.33	0.793		mg/Kg		59	30 - 115	0	35
Hexachlorobutadiene			1.33	0.926		mg/Kg		69	44 - 115	4	35
4-Chloro-3-methylphenol			1.33	1.08		mg/Kg		81	58 - 115	3	35
2-Methylnaphthalene			1.33	0.963		mg/Kg		72	49 - 115	4	35
Hexachlorocyclopentadiene			1.33	0.904		mg/Kg		68	42 - 132	12	35
2,4,6-Trichlorophenol			1.33	1.07		mg/Kg		80	45 - 115	8	35
2,4,5-Trichlorophenol			1.33	1.11		mg/Kg		83	48 - 115	5	35
2-Chloronaphthalene			1.33	0.983		mg/Kg		74	52 - 115	4	35
2-Nitroaniline			1.33	1.17		mg/Kg		88	54 - 115	6	35
Dimethyl phthalate			1.33	1.22		mg/Kg		91	64 - 119	0	35
Acenaphthylene			1.33	1.09		mg/Kg		82	61 - 129	5	35
3-Nitroaniline			1.33	0.984		mg/Kg		74	50 - 115	5	35

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCSD 720-153183/3-A
Matrix: Solid
Analysis Batch: 153255

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 153183

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			1.33	1.05		mg/Kg		78	50 - 115	3	35
2,4-Dinitrophenol			2.67	2.24		mg/Kg		84	21 - 115	11	35
4-Nitrophenol			2.67	2.38		mg/Kg		89	54 - 125	7	35
Dibenzofuran			1.33	1.11		mg/Kg		83	55 - 115	5	35
2,4-Dinitrotoluene			1.33	1.20		mg/Kg		90	57 - 115	8	35
2,6-Dinitrotoluene			1.33	1.23		mg/Kg		92	54 - 119	5	35
Diethyl phthalate			1.33	1.11		mg/Kg		84	49 - 117	3	35
4-Chlorophenyl phenyl ether			1.33	1.12		mg/Kg		84	57 - 115	5	35
Fluorene			1.33	1.17		mg/Kg		88	54 - 115	5	35
4-Nitroaniline			1.33	1.17		mg/Kg		88	59 - 115	3	35
2-Methyl-4,6-dinitrophenol			2.67	2.50		mg/Kg		94	48 - 115	1	35
N-Nitrosodiphenylamine			1.33	1.20		mg/Kg		90	56 - 115	4	35
4-Bromophenyl phenyl ether			1.33	1.17		mg/Kg		88	53 - 115	0	35
Hexachlorobenzene			1.33	1.21		mg/Kg		91	55 - 115	1	35
Pentachlorophenol			2.67	2.35		mg/Kg		88	35 - 115	7	35
Phenanthrene			1.33	1.20		mg/Kg		90	54 - 115	2	35
Anthracene			1.33	1.18		mg/Kg		89	55 - 115	2	35
Di-n-butyl phthalate			1.33	1.24		mg/Kg		93	55 - 115	0	35
Fluoranthene			1.33	1.31		mg/Kg		98	54 - 115	3	35
Pyrene			1.33	1.27		mg/Kg		95	48 - 115	3	35
Butyl benzyl phthalate			1.33	1.29		mg/Kg		97	53 - 115	2	35
3,3'-Dichlorobenzidine			1.33	0.989		mg/Kg		74	42 - 115	2	35
Benzo[a]anthracene			1.33	1.26		mg/Kg		95	55 - 115	1	35
Bis(2-ethylhexyl) phthalate			1.33	1.29		mg/Kg		96	53 - 115	1	35
Chrysene			1.33	1.25		mg/Kg		94	58 - 115	1	35
Di-n-octyl phthalate			1.33	1.34		mg/Kg		101	53 - 115	1	35
Benzo[b]fluoranthene			1.33	1.15		mg/Kg		86	56 - 115	4	35
Benzo[a]pyrene			1.33	1.22		mg/Kg		92	55 - 115	0	35
Benzo[k]fluoranthene			1.33	1.27		mg/Kg		95	57 - 115	1	35
Indeno[1,2,3-cd]pyrene			1.33	1.24		mg/Kg		93	56 - 115	4	35
Benzo[g,h,i]perylene			1.33	1.24		mg/Kg		93	56 - 115	8	35
Benzoic acid			1.33	0.907		mg/Kg		68	10 - 115	14	35
Azobenzene			1.33	1.07		mg/Kg		80	52 - 115	6	35
Dibenz(a,h)anthracene			1.33	1.23		mg/Kg		93	58 - 115	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*76*		*27 - 116*
2-Fluorobiphenyl	*81*		*30 - 112*
Terphenyl-d14	*107*		*32 - 117*
2-Fluorophenol	*69*		*28 - 98*
Phenol-d5	*65*		*23 - 101*
2,4,6-Tribromophenol	*108*		*37 - 114*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: LCS 720-153334/2-A
Matrix: Solid
Analysis Batch: 153293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153334

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2500	1780		ug/L		71	34 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*104*		*23 - 156*

Lab Sample ID: LCSD 720-153334/3-A
Matrix: Solid
Analysis Batch: 153293

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 153334

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2500	1780		ug/L		71	34 - 115	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*104*		*23 - 156*

Lab Sample ID: LB4 720-153088/1-B
Matrix: Solid
Analysis Batch: 153378

Client Sample ID: Method Blank
Prep Type: STLC DI
Prep Batch: 153334

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		51		ug/L		02/11/14 14:28	02/12/14 10:09	1
Motor Oil Range Organics [C24-C36]	ND		100		ug/L		02/11/14 14:28	02/12/14 10:09	1
Total Extractable Hydrocarbons [C10-C36]	ND		51		ug/L		02/11/14 14:28	02/12/14 10:09	1

Surrogate	*LB4 %Recovery*	*LB4 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*92*		*23 - 156*	*02/11/14 14:28*	*02/12/14 10:09*	*1*

Method: 8015B - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Lab Sample ID: MB 720-153182/1-A
Matrix: Solid
Analysis Batch: 153230

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 153182

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		02/07/14 14:11	02/10/14 11:16	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		02/07/14 14:11	02/10/14 11:16	1
Total Extractable Hydrocarbons [C10-C36]	1.34		1.0		mg/Kg		02/07/14 14:11	02/10/14 11:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*109*		*31 - 114*	*02/07/14 14:11*	*02/10/14 11:16*	*1*

Method: 8015B - Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) (Continued)

Lab Sample ID: LCS 720-153182/2-A
Matrix: Solid
Analysis Batch: 153217

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153182

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			83.3	92.8		mg/Kg		111	59 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*109*		*31 - 114*

Lab Sample ID: LCSD 720-153182/3-A
Matrix: Solid
Analysis Batch: 153217

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 153182

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			83.3	91.8		mg/Kg		110	59 - 134	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*112*		*31 - 114*

Lab Sample ID: 720-55284-1 MS
Matrix: Solid
Analysis Batch: 153217

Client Sample ID: GX6-S17(8)
Prep Type: Total/NA
Prep Batch: 153182

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	29000		2480	25300	4	mg/Kg		-166	50 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*0*	*D X*	*31 - 114*

Lab Sample ID: 720-55284-1 MSD
Matrix: Solid
Analysis Batch: 153217

Client Sample ID: GX6-S17(8)
Prep Type: Total/NA
Prep Batch: 153182

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	29000		2480	30300	4	mg/Kg		36	50 - 130	18	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*0*	*D X*	*31 - 114*

GC/MS Semi VOA

Prep Batch: 153183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55284-1	GX6-S17(8)	Total/NA	Solid	3550B	
LCS 720-153183/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 720-153183/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	
MB 720-153183/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 153255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55284-1	GX6-S17(8)	Total/NA	Solid	8270C	153183
LCS 720-153183/2-A	Lab Control Sample	Total/NA	Solid	8270C	153183
LCSD 720-153183/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C	153183
MB 720-153183/1-A	Method Blank	Total/NA	Solid	8270C	153183

GC Semi VOA

Leach Batch: 153088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55284-1	GX6-S17(8)	STLC DI	Solid	CA WET DI Leach	
LB4 720-153088/1-B	Method Blank	STLC DI	Solid	CA WET DI Leach	

Prep Batch: 153182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55284-1	GX6-S17(8)	Total/NA	Solid	3550B	
720-55284-1 MS	GX6-S17(8)	Total/NA	Solid	3550B	
720-55284-1 MSD	GX6-S17(8)	Total/NA	Solid	3550B	
LCS 720-153182/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 720-153182/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	
MB 720-153182/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 153217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55284-1	GX6-S17(8)	Total/NA	Solid	8015B	153182
720-55284-1 MS	GX6-S17(8)	Total/NA	Solid	8015B	153182
720-55284-1 MSD	GX6-S17(8)	Total/NA	Solid	8015B	153182
LCS 720-153182/2-A	Lab Control Sample	Total/NA	Solid	8015B	153182
LCSD 720-153182/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	153182

Analysis Batch: 153230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-153182/1-A	Method Blank	Total/NA	Solid	8015B	153182

Analysis Batch: 153293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-153334/2-A	Lab Control Sample	Total/NA	Solid	8015B	153334
LCSD 720-153334/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	153334

Analysis Batch: 153294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55284-1	GX6-S17(8)	STLC DI	Solid	8015B	153334

GC Semi VOA (Continued)

Prep Batch: 153334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-55284-1	GX6-S17(8)	STLC DI	Solid	3510C	153088
LB4 720-153088/1-B	Method Blank	STLC DI	Solid	3510C	153088
LCS 720-153334/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 720-153334/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 153378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB4 720-153088/1-B	Method Blank	STLC DI	Solid	8015B	153334

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-55284-1

Client Sample ID: GX6-S17(8)
Date Collected: 02/04/14 15:00
Date Received: 02/04/14 15:45

Lab Sample ID: 720-55284-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			153183	02/07/14 14:16	AFM	TAL PLS
Total/NA	Analysis	8270C		20	153255	02/10/14 23:57	MQL	TAL PLS
Total/NA	Prep	3550B			153182	02/07/14 14:11	AFM	TAL PLS
Total/NA	Analysis	8015B		50	153217	02/08/14 12:50	DCH	TAL PLS
STLC DI	Leach	CA WET DI Leach			153088	02/06/14 13:57	JRM	TAL PLS
STLC DI	Prep	3510C			153334	02/11/14 14:28	AFM	TAL PLS
STLC DI	Analysis	8015B		1	153294	02/11/14 22:01	JL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-55284-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-55284-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8015B	Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-55284-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-55284-1	GX6-S17(8)	Solid	02/04/14 15:00	02/04/14 15:45

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

720-55284

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 151598

Date 2/4/14 Page 1 of 1

2/12/2014

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St. Walnut Creek, CA
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: V. Tilotta
Attn: Accounts Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	Volatile Organics GC/MS (VOCs) ☐ EPA-8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ____	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ____	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ____	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Hold		Number of Containers
GX6-S17(8)	2/4/14	1500		Ice																			X		1

720-55284 Chain of Custody

Page 21 of 23

Project Info.

Project Name/ #: Former Hanson Aggregates Radom Facility
PO#: 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 15.6°C

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1545	Signature: Time:	Signature: Time:
Printed Name: Vincent Tilotta Date: 2/4/14	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1545	Signature: Time:	Signature: Time:
Printed Name: Justin Gonzales Date: 2/4/14	Printed Name: Date:	Printed Name: Date:
Company: TAP	Company:	Company:

Rev 10/2012

Sharma, Dimple 720-55284-REV

From: Tilotta, Vincent [VTilotta@haleyaldrich.com]
Sent: Wednesday, February 05, 2014 8:39 AM
To: Sharma, Dimple
Cc: Schwartz, James; Green, James; Sebik, Joanna
Subject: Analyses for the tar sample

Good morning Dimple,

Yesterday afternoon I dropped off a sample of tar-like substance and placed it on hold. The sample ID is EX6-S17 (8). Please arrange to have the sample analyzed for the following on a standard 5 day turn around:

- Total extractable hydrocarbons
- SVOCs

Then:

- Conduct an STLC
- Analyze leachate for Total extractable hydrocarbons

Please let me know if you have any questions.

Thank you,
Vince

Vincent P. Tilotta, E.I.T.
Staff Engineer
HALEY & ALDRICH
2033 North Main Street, Suite 309
Walnut Creek, CA 94596
phone: 925.949.4403
cell: 925.708.3696
Fax: 925.979.1456
VTilotta@HaleyAldrich.com
www.HaleyAldrich.com


720-55284 Chain of Custody

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-55284-1

Login Number: 55284

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-58483-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Jim Green

Authorized for release by:
7/10/2014 2:28:16 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58483-1

Job ID: 720-58483-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-58483-1

Comments
No additional comments.

Receipt
The samples were received on 7/7/2014 3:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.1° C.

GC Semi VOA
Method 8015B: The following sample required a dilution due to the nature of the sample matrix: EX10/11-S14 (720-58483-2), EX10/11-S16 (720-58483-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 162665 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58483-1

Client Sample ID: EX10/11-S13 — Lab Sample ID: 720-58483-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	150		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	130		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX10/11-S14 — Lab Sample ID: 720-58483-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	570		5.0		mg/Kg	5		8015B	Silica Gel Cleanup

Client Sample ID: EX10/11-S15 — Lab Sample ID: 720-58483-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	160		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	78		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX10/11-S16 — Lab Sample ID: 720-58483-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	910		10		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: EX10/11-PH1 — Lab Sample ID: 720-58483-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.1		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX10/11-PH2 — Lab Sample ID: 720-58483-6

No Detections.

Client Sample ID: EX10/11-PH3 — Lab Sample ID: 720-58483-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	64		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	170		50		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58483-1

Client Sample ID: EX10/11-S13
Date Collected: 07/07/14 15:00
Date Received: 07/07/14 15:45

Lab Sample ID: 720-58483-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	150		1.0		mg/Kg		07/08/14 08:48	07/09/14 00:30	1
Motor Oil Range Organics [C24-C36]	130		50		mg/Kg		07/08/14 08:48	07/09/14 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.06*		*0 - 1*	*07/08/14 08:48*	*07/09/14 00:30*	*1*
p-Terphenyl	*57*		*38 - 148*	*07/08/14 08:48*	*07/09/14 00:30*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58483-1

Client Sample ID: EX10/11-S14
Date Collected: 07/07/14 15:05
Date Received: 07/07/14 15:45

Lab Sample ID: 720-58483-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**570**		5.0		mg/Kg		07/08/14 08:48	07/09/14 00:30	5
Motor Oil Range Organics [C24-C36]	ND		250		mg/Kg		07/08/14 08:48	07/09/14 00:30	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*07/08/14 08:48*	*07/09/14 00:30*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*07/08/14 08:48*	*07/09/14 00:30*	*5*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58483-1

Client Sample ID: EX10/11-S15
Date Collected: 07/07/14 15:10
Date Received: 07/07/14 15:45

Lab Sample ID: 720-58483-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	160		0.99		mg/Kg		07/08/14 08:48	07/08/14 21:58	1
Motor Oil Range Organics [C24-C36]	78		50		mg/Kg		07/08/14 08:48	07/08/14 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*07/08/14 08:48*	*07/08/14 21:58*	*1*
p-Terphenyl	*84*		*38 - 148*	*07/08/14 08:48*	*07/08/14 21:58*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58483-1

Client Sample ID: EX10/11-S16
Date Collected: 07/07/14 15:15
Date Received: 07/07/14 15:45

Lab Sample ID: 720-58483-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**910**		10		mg/Kg		07/08/14 08:48	07/09/14 00:59	10
Motor Oil Range Organics [C24-C36]	ND		500		mg/Kg		07/08/14 08:48	07/09/14 00:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*07/08/14 08:48*	*07/09/14 00:59*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*07/08/14 08:48*	*07/09/14 00:59*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58483-1

Client Sample ID: EX10/11-PH1
Date Collected: 07/07/14 14:35
Date Received: 07/07/14 15:45

Lab Sample ID: 720-58483-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.1**		0.99		mg/Kg		07/09/14 13:35	07/10/14 00:29	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/09/14 13:35	07/10/14 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.05*		*0 - 1*	*07/09/14 13:35*	*07/10/14 00:29*	*1*
p-Terphenyl	*94*		*38 - 148*	*07/09/14 13:35*	*07/10/14 00:29*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58483-1

Client Sample ID: EX10/11-PH2
Date Collected: 07/07/14 14:40
Date Received: 07/07/14 15:45

Lab Sample ID: 720-58483-6
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		07/09/14 13:35	07/10/14 00:53	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/09/14 13:35	07/10/14 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*07/09/14 13:35*	*07/10/14 00:53*	*1*
p-Terphenyl	*92*		*38 - 148*	*07/09/14 13:35*	*07/10/14 00:53*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58483-1

Client Sample ID: EX10/11-PH3
Date Collected: 07/07/14 14:45
Date Received: 07/07/14 15:45

Lab Sample ID: 720-58483-7
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	64		1.0		mg/Kg		07/09/14 13:35	07/10/14 03:20	1
Motor Oil Range Organics [C24-C36]	170		50		mg/Kg		07/09/14 13:35	07/10/14 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.2*		*0 - 1*	*07/09/14 13:35*	*07/10/14 03:20*	*1*
p-Terphenyl	*95*		*38 - 148*	*07/09/14 13:35*	*07/10/14 03:20*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-162557/1-A
Matrix: Solid
Analysis Batch: 162546

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 162557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/08/14 08:48	07/09/14 00:24	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/08/14 08:48	07/09/14 00:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 1*	*07/08/14 08:48*	*07/09/14 00:24*	*1*
p-Terphenyl	*110*		*38 - 148*	*07/08/14 08:48*	*07/09/14 00:24*	*1*

Lab Sample ID: LCS 720-162557/2-A
Matrix: Solid
Analysis Batch: 162546

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 162557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.2	44.8		mg/Kg		55	36 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*98*		*38 - 148*

Lab Sample ID: LCSD 720-162557/3-A
Matrix: Solid
Analysis Batch: 162546

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 162557

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	82.6	51.5		mg/Kg		62	36 - 112	14	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*106*		*38 - 148*

Lab Sample ID: 720-58483-3 MS
Matrix: Solid
Analysis Batch: 162625

Client Sample ID: EX10/11-S15
Prep Type: Silica Gel Cleanup
Prep Batch: 162557

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	160		82.4	220		mg/Kg		69	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*106*		*38 - 148*

Lab Sample ID: 720-58483-3 MSD
Matrix: Solid
Analysis Batch: 162625

Client Sample ID: EX10/11-S15
Prep Type: Silica Gel Cleanup
Prep Batch: 162557

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	160		82.9	219		mg/Kg		67	50 - 150	0	30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-58483-3 MSD
Matrix: Solid
Analysis Batch: 162625

Client Sample ID: EX10/11-S15
Prep Type: Silica Gel Cleanup
Prep Batch: 162557

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	*97*		*38 - 148*

Lab Sample ID: MB 720-162665/1-A
Matrix: Solid
Analysis Batch: 162626

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 162665

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/09/14 13:35	07/10/14 05:21	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		07/09/14 13:35	07/10/14 05:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	*0.02*		*0 - 1*	*07/09/14 13:35*	*07/10/14 05:21*	*1*
p-Terphenyl	*93*		*38 - 148*	*07/09/14 13:35*	*07/10/14 05:21*	*1*

Lab Sample ID: LCS 720-162665/2-A
Matrix: Solid
Analysis Batch: 162626

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 162665

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.3	43.6		mg/Kg		53	36 - 112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*98*		*38 - 148*

Lab Sample ID: LCSD 720-162665/3-A
Matrix: Solid
Analysis Batch: 162626

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 162665

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	83.2	44.6		mg/Kg		54	36 - 112	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	*94*		*38 - 148*

Lab Sample ID: 720-58483-5 MS
Matrix: Solid
Analysis Batch: 162626

Client Sample ID: EX10/11-PH1
Prep Type: Silica Gel Cleanup
Prep Batch: 162665

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	4.1		82.4	45.4		mg/Kg		50	50 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl	*91*		*38 - 148*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-58483-5 MSD
Matrix: Solid
Analysis Batch: 162626

Client Sample ID: EX10/11-PH1
Prep Type: Silica Gel Cleanup
Prep Batch: 162665

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	4.1		82.3	44.2	F1	mg/Kg		49	50 - 150	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*88*		*38 - 148*

GC Semi VOA

Analysis Batch: 162546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-162557/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	162557
LCSD 720-162557/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	162557
MB 720-162557/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	162557

Analysis Batch: 162547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58483-3	EX10/11-S15	Silica Gel Cleanup	Solid	8015B	162557

Prep Batch: 162557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58483-1	EX10/11-S13	Silica Gel Cleanup	Solid	3546	
720-58483-2	EX10/11-S14	Silica Gel Cleanup	Solid	3546	
720-58483-3	EX10/11-S15	Silica Gel Cleanup	Solid	3546	
720-58483-3 MS	EX10/11-S15	Silica Gel Cleanup	Solid	3546	
720-58483-3 MSD	EX10/11-S15	Silica Gel Cleanup	Solid	3546	
720-58483-4	EX10/11-S16	Silica Gel Cleanup	Solid	3546	
LCS 720-162557/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-162557/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-162557/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 162559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58483-2	EX10/11-S14	Silica Gel Cleanup	Solid	8015B	162557

Analysis Batch: 162560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58483-1	EX10/11-S13	Silica Gel Cleanup	Solid	8015B	162557
720-58483-4	EX10/11-S16	Silica Gel Cleanup	Solid	8015B	162557

Analysis Batch: 162625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58483-3 MS	EX10/11-S15	Silica Gel Cleanup	Solid	8015B	162557
720-58483-3 MSD	EX10/11-S15	Silica Gel Cleanup	Solid	8015B	162557

Analysis Batch: 162626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58483-5	EX10/11-PH1	Silica Gel Cleanup	Solid	8015B	162665
720-58483-5 MS	EX10/11-PH1	Silica Gel Cleanup	Solid	8015B	162665
720-58483-5 MSD	EX10/11-PH1	Silica Gel Cleanup	Solid	8015B	162665
720-58483-6	EX10/11-PH2	Silica Gel Cleanup	Solid	8015B	162665
720-58483-7	EX10/11-PH3	Silica Gel Cleanup	Solid	8015B	162665
LCS 720-162665/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	162665
LCSD 720-162665/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	162665
MB 720-162665/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	162665

Prep Batch: 162665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58483-5	EX10/11-PH1	Silica Gel Cleanup	Solid	3546	
720-58483-5 MS	EX10/11-PH1	Silica Gel Cleanup	Solid	3546	
720-58483-5 MSD	EX10/11-PH1	Silica Gel Cleanup	Solid	3546	
720-58483-6	EX10/11-PH2	Silica Gel Cleanup	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 162665 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58483-7	EX10/11-PH3	Silica Gel Cleanup	Solid	3546	
LCS 720-162665/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-162665/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-162665/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58483-1

Client Sample ID: EX10/11-S13

Lab Sample ID: 720-58483-1

Date Collected: 07/07/14 15:00

Matrix: Solid

Date Received: 07/07/14 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			162557	07/08/14 08:48	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	162560	07/09/14 00:30	JL	TAL PLS

Client Sample ID: EX10/11-S14

Lab Sample ID: 720-58483-2

Date Collected: 07/07/14 15:05

Matrix: Solid

Date Received: 07/07/14 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			162557	07/08/14 08:48	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	162559	07/09/14 00:30	JL	TAL PLS

Client Sample ID: EX10/11-S15

Lab Sample ID: 720-58483-3

Date Collected: 07/07/14 15:10

Matrix: Solid

Date Received: 07/07/14 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			162557	07/08/14 08:48	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	162547	07/08/14 21:58	JL	TAL PLS

Client Sample ID: EX10/11-S16

Lab Sample ID: 720-58483-4

Date Collected: 07/07/14 15:15

Matrix: Solid

Date Received: 07/07/14 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			162557	07/08/14 08:48	AFM	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	162560	07/09/14 00:59	JL	TAL PLS

Client Sample ID: EX10/11-PH1

Lab Sample ID: 720-58483-5

Date Collected: 07/07/14 14:35

Matrix: Solid

Date Received: 07/07/14 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			162665	07/09/14 13:35	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	162626	07/10/14 00:29	JL	TAL PLS

Client Sample ID: EX10/11-PH2

Lab Sample ID: 720-58483-6

Date Collected: 07/07/14 14:40

Matrix: Solid

Date Received: 07/07/14 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			162665	07/09/14 13:35	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	162626	07/10/14 00:53	JL	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58483-1

Client Sample ID: EX10/11-PH3
Date Collected: 07/07/14 14:45
Date Received: 07/07/14 15:45

Lab Sample ID: 720-58483-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			162665	07/09/14 13:35	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	162626	07/10/14 03:20	JL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58483-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58483-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58483-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-58483-1	EX10/11-S13	Solid	07/07/14 15:00	07/07/14 15:45
720-58483-2	EX10/11-S14	Solid	07/07/14 15:05	07/07/14 15:45
720-58483-3	EX10/11-S15	Solid	07/07/14 15:10	07/07/14 15:45
720-58483-4	EX10/11-S16	Solid	07/07/14 15:15	07/07/14 15:45
720-58483-5	EX10/11-PH1	Solid	07/07/14 14:35	07/07/14 15:45
720-58483-6	EX10/11-PH2	Solid	07/07/14 14:40	07/07/14 15:45
720-58483-7	EX10/11-PH3	Solid	07/07/14 14:45	07/07/14 15:45

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720-58483

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 154803

Date 7/7/14 Page 1 of 1

7/10/2014

Report To

Attn: Jim Green
Company: Haley & Aldrich
Address: 2033 N. main St. Walnut creek, CA
Email: JGreen@HaleyAldrich.com
Bill To: Haley & Aldrich
Sampled By: V. Tilotta
Attn: Accounts payable
Phone: 925.949.1016

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS)	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
EX10/11-S13	7/7/14	1500	Soil	Ice				X																		1
EX10/11-S14	7/7/14	1505						X																		1
EX10/11-S15	7/7/14	1510						X																		1
EX10/11-S16	7/7/14	1515						X																		1
EX10/11-PH1	7/7/14	1435						X																		1
EX10/11-PH2	7/7/14	1440						X																		1
EX10/11-PH3	7/7/14	1445						X																		1

Project Info.

Project Name/ #: Former Hanson Aggregates Radum Facility
PO#: 39792-050
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 6.1°c

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by: 1545
Signature Time
Vincent Tilotta 7/7/14
Printed Name Date
Haley & Aldrich
Company

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by:
Signature Time
Printed Name Date
Company

720-58483 Chain of Custody

1) Received by: 1545
Signature Time
Printed Name 7-7-14 Date
Company

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by:
Signature Time
Printed Name Date
Company

Rev.10/2012

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

720-58483

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane ● Pleasanton CA 94566-4756
Phone: (925) 484-1919 ● Fax: (925) 600-3002

Reference #: 154803

Date 7/7/14 Page 1 of 1

7/10/2014

Report To

Attn: Jim Green
Company: Haley & Aldrich
Address: 2033 N. main St. Walnut creek, CA
Email: JGreen@HaleyAldrich.com
Bill To: Haley & Aldrich
Sampled By: V. Tilotta
Attn: Accounts Payable
Phone: 925.949.1016

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☐ Motor Oil ☐ Other ___	Semi Volatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Metals: ☐ 6020 ☐ 200 8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
EX10/11-S13	7/7/14	1500	Soil	Ice				X																		1
EX-10/11-S14	7/7/14	1505						X																		1
EX-10/11-S15	7/7/14	1510						X																		1
EX 10/11-S16	7/7/14	1515						X																		1
EX.10/11-PH1	7/7/14	1435						X																		1
EX 10/11-PH2	7/7/14	1440						X																		1
EX 10/11-PH3	7/7/14	1445						X																		1

RUSH

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Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: 39792-050

Sample Receipt

of Containers:
Head Space:
Temp: 6.1°C

Credit Card Y/N: If yes, please call with payment information ASAP

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___
Changed TAT to 24Hrs. per Jim Green on 7/9/14
See Terms and Conditions on reverse

1) Relinquished by: [signature] 1545
Signature Time
Vincent Tilotta 7/7/14
Printed Name Date
Haley & Aldrich
Company

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by:
720-58483 Chain of Custody
Company

1) Received by: [signature] 1545
Signature Time
[signature] 7-7-14
Printed Name Date
Company

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by:
Signature Time
Printed Name Date
Company

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-58483-1

Login Number: 58483

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-58506-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Jim Green

Authorized for release by:
7/10/2014 11:09:37 AM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58506-1

Job ID: 720-58506-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-58506-1

Comments
No additional comments.

Receipt
The samples were received on 7/8/2014 4:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.7º C.

GC Semi VOA
Method 8015B: The following sample required a dilution due to the nature of the sample matrix: EX6-S17 (720-58506-1), EX7-S19 (720-58506-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58506-1

Client Sample ID: EX6-S17 — Lab Sample ID: 720-58506-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2100		49		mg/Kg	50		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	5000		2500		mg/Kg	50		8015B	Total/NA

Client Sample ID: EX7-S18 — Lab Sample ID: 720-58506-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	150		2.0		mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	390		99		mg/Kg	2		8015B	Total/NA

Client Sample ID: EX7-S19 — Lab Sample ID: 720-58506-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	270		10		mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1100		500		mg/Kg	10		8015B	Total/NA

Client Sample ID: EX3/4-S10 — Lab Sample ID: 720-58506-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	35		2.0		mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	170		99		mg/Kg	2		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58506-1

Client Sample ID: EX6-S17
Date Collected: 07/08/14 15:39
Date Received: 07/08/14 16:20

Lab Sample ID: 720-58506-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2100		49		mg/Kg		07/09/14 08:02	07/09/14 21:38	50
Motor Oil Range Organics [C24-C36]	5000		2500		mg/Kg		07/09/14 08:02	07/09/14 21:38	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*07/09/14 08:02*	*07/09/14 21:38*	*50*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58506-1

Client Sample ID: EX7-S18
Date Collected: 07/08/14 15:41
Date Received: 07/08/14 16:20

Lab Sample ID: 720-58506-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	150		2.0		mg/Kg		07/09/14 08:02	07/09/14 20:01	2
Motor Oil Range Organics [C24-C36]	390		99		mg/Kg		07/09/14 08:02	07/09/14 20:01	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*67*		*40 - 130*	*07/09/14 08:02*	*07/09/14 20:01*	*2*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58506-1

Client Sample ID: EX7-S19
Date Collected: 07/08/14 15:43
Date Received: 07/08/14 16:20

Lab Sample ID: 720-58506-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	270		10		mg/Kg		07/09/14 08:02	07/09/14 20:25	10
Motor Oil Range Organics [C24-C36]	1100		500		mg/Kg		07/09/14 08:02	07/09/14 20:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*07/09/14 08:02*	*07/09/14 20:25*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58506-1

Client Sample ID: EX3/4-S10
Date Collected: 07/08/14 15:34
Date Received: 07/08/14 16:20

Lab Sample ID: 720-58506-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	35		2.0		mg/Kg		07/09/14 08:02	07/09/14 19:37	2
Motor Oil Range Organics [C24-C36]	170		99		mg/Kg		07/09/14 08:02	07/09/14 19:37	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*79*		*40 - 130*	*07/09/14 08:02*	*07/09/14 19:37*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-162631/1-A
Matrix: Solid
Analysis Batch: 162650

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 162631

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/09/14 08:02	07/09/14 16:01	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		07/09/14 08:02	07/09/14 16:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*86*		*40 - 130*	*07/09/14 08:02*	*07/09/14 16:01*	*1*

Lab Sample ID: LCS 720-162631/2-A
Matrix: Solid
Analysis Batch: 162650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162631

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.2	78.8		mg/Kg		96	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*109*		*40 - 130*

Lab Sample ID: LCSD 720-162631/3-A
Matrix: Solid
Analysis Batch: 162650

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 162631

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.8	82.0		mg/Kg		99	50 - 150	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*116*		*40 - 130*

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58506-1

GC Semi VOA

Analysis Batch: 162625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58506-1	EX6-S17	Total/NA	Solid	8015B	162631
720-58506-2	EX7-S18	Total/NA	Solid	8015B	162631
720-58506-3	EX7-S19	Total/NA	Solid	8015B	162631
720-58506-4	EX3/4-S10	Total/NA	Solid	8015B	162631

Prep Batch: 162631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58506-1	EX6-S17	Total/NA	Solid	3546	
720-58506-2	EX7-S18	Total/NA	Solid	3546	
720-58506-3	EX7-S19	Total/NA	Solid	3546	
720-58506-4	EX3/4-S10	Total/NA	Solid	3546	
LCS 720-162631/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-162631/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-162631/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 162650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-162631/2-A	Lab Control Sample	Total/NA	Solid	8015B	162631
LCSD 720-162631/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	162631
MB 720-162631/1-A	Method Blank	Total/NA	Solid	8015B	162631

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58506-1

Client Sample ID: EX6-S17

Lab Sample ID: 720-58506-1

Date Collected: 07/08/14 15:39

Matrix: Solid

Date Received: 07/08/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			162631	07/09/14 08:02	JRM	TAL PLS
Total/NA	Analysis	8015B		50	162625	07/09/14 21:38	DCH	TAL PLS

Client Sample ID: EX7-S18

Lab Sample ID: 720-58506-2

Date Collected: 07/08/14 15:41

Matrix: Solid

Date Received: 07/08/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			162631	07/09/14 08:02	JRM	TAL PLS
Total/NA	Analysis	8015B		2	162625	07/09/14 20:01	DCH	TAL PLS

Client Sample ID: EX7-S19

Lab Sample ID: 720-58506-3

Date Collected: 07/08/14 15:43

Matrix: Solid

Date Received: 07/08/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			162631	07/09/14 08:02	JRM	TAL PLS
Total/NA	Analysis	8015B		10	162625	07/09/14 20:25	DCH	TAL PLS

Client Sample ID: EX3/4-S10

Lab Sample ID: 720-58506-4

Date Collected: 07/08/14 15:34

Matrix: Solid

Date Received: 07/08/14 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			162631	07/09/14 08:02	JRM	TAL PLS
Total/NA	Analysis	8015B		2	162625	07/09/14 19:37	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58506-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58506-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58506-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-58506-1	EX6-S17	Solid	07/08/14 15:39	07/08/14 16:20
720-58506-2	EX7-S18	Solid	07/08/14 15:41	07/08/14 16:20
720-58506-3	EX7-S19	Solid	07/08/14 15:43	07/08/14 16:20
720-58506-4	EX3/4-S10	Solid	07/08/14 15:34	07/08/14 16:20

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

720-58506

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 154826

Date 7/8/14 Page 1 of 1

7/10/2014

Report To

Attn: Jim Green
Company: H&A
Address: 2033 N Main St WC, CA
Email: jgreen@haleyaldrich.com
Bill To: H&A
Sampled By: Jackson / Tillotta
Attn: Accts Payable
Phone: 925-949-1016

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions : ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
EX6-S17	7/8/14	15:39	Soil	none				X																		1
EX7-S18	7/8/14	15:41	"	"				X																		1
EX7-S19	7/8/14	15:43	"	"				X																		1
EX3/4-S10	7/8/14	15:34	↓	↓				X																		1

RUSH
Jm 7-8-14

Page 16 of 18

Project Info.

Project Name/ #: Former Hanson Agg. Radium plant
PO#: 39792-048
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers: 4
Head Space:
Temp: 7.7°C

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | (1 Day) | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: 4:20 (Time)	Signature / Time	Time
Printed Name: Emily Jackson 7/8/14 (Date)	Printed Name / Date	Date
Company: H&A	Company	Company

720-58506 Chain of Custody

1) Received by:	2) Received by:	3) Received by:
Signature: 1620 (Time)	Signature / Time	Signature / Time
Printed Name: 7-8-14 (Date)	Printed Name / Date	Printed Name / Date
Company:	Company	Company

Rev.10/2012

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720-58506

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 154826

Date 7/8/14 Page 1 of 1

7/10/2014

Report To

Attn: Jim Green
Company: H&A
Address: 2033 N Main St WC, CA
Email: Jgreen@haleyaldrich.com
Bill To: H&A
Sampled By: Jackson/Tillotta
Attn: Accts Payable
Phone: 925-949-1016

Analysis Request

Sample ID	Date	Time	Matrix	Preserv
EX6-S17	7/8/14	15:39	soil	none
EX7-S18	7/8/14	15:41	"	"
EX7-S19	7/8/14	15:43	"	"
EX3/4-S10	7/8/14	15:34	↓	↓

Analysis columns: Volatile Organics GC/MS (VOCs) ☐ EPA 8260B; HVOCs by ☐ EPA 8260B; EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol; TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___; SemiVolatile Organics GC/MS ☐ EPA 8270C; PNA/PAH's by ☐ 8270C ☐ 8270C SIM; Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total; Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082; CAM17 Metals (EPA 6010/7470/7471); Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___; Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___; ☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP; Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199; pH ☐ 9040 ☐ SM4500; ☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS; Anions · ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4; ☐ Perchlorate by EPA 314.0; COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity; Number of Containers

X X X X

RUSH

RUSH
Jim 7-8-14

Page 17 of 18

Project Info.

Project Name/ #: Former Hanson Agg. Radium plant
PO#: 39792-048
Credit Card Y/N:
If yes, please call with payment information ASAP

Sample Receipt

of Containers: 4
Head Space:
Temp: 7.7°C

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | (1 Day) | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments. ☐ Global ID ___
Changed TAT to 24 hrs. TAT per Jim Green on 7/9/14 JS.

See Terms and Conditions on reverse

1) Relinquished by: Signature — Time 4:20
Emily Jackson — Printed Name — Date 7/8/14
H&A — Company

2) Relinquished by: Signature — Time
Printed Name — Date
Company

3) Relinquished by: Signature — Time
Printed Name — Date
Company

720-58506 Chain of Custody

1) Received by: Signature — Time 1620
Printed Name — Date 7-8-14
Company

2) Received by: Signature — Time
Printed Name — Date
Company

3) Received by: Signature — Time
Printed Name — Date
Company

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-58506-1

Login Number: 58506

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Bullock, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-58525-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Jim Green

Authorized for release by:
7/10/2014 2:44:22 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-58525-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-58525-1

Comments
No additional comments.

Receipt
The samples were received on 7/9/2014 2:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 6.0º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58525-1

Client Sample ID: EX 10/11-PH4 — Lab Sample ID: 720-58525-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	39		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: EX 10/11-PH5 — Lab Sample ID: 720-58525-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.6		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58525-1

Client Sample ID: EX 10/11-PH4
Date Collected: 07/09/14 11:10
Date Received: 07/09/14 14:00

Lab Sample ID: 720-58525-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**39**		0.99		mg/Kg		07/09/14 15:40	07/10/14 00:05	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/09/14 15:40	07/10/14 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.002*		*0 - 1*	*07/09/14 15:40*	*07/10/14 00:05*	*1*
p-Terphenyl	*83*		*38 - 148*	*07/09/14 15:40*	*07/10/14 00:05*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58525-1

Client Sample ID: EX 10/11-PH5
Date Collected: 07/09/14 11:15
Date Received: 07/09/14 14:00

Lab Sample ID: 720-58525-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**4.6**		0.99		mg/Kg		07/09/14 15:40	07/10/14 00:29	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/09/14 15:40	07/10/14 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.0005*		*0 - 1*	*07/09/14 15:40*	*07/10/14 00:29*	*1*
p-Terphenyl	*92*		*38 - 148*	*07/09/14 15:40*	*07/10/14 00:29*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58525-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-162665/1-A
Matrix: Solid
Analysis Batch: 162626

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 162665

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/09/14 13:35	07/10/14 05:21	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		07/09/14 13:35	07/10/14 05:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.02*		*0 - 1*	*07/09/14 13:35*	*07/10/14 05:21*	*1*
p-Terphenyl	*93*		*38 - 148*	*07/09/14 13:35*	*07/10/14 05:21*	*1*

Lab Sample ID: LCS 720-162665/2-A
Matrix: Solid
Analysis Batch: 162626

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 162665

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.3	43.6		mg/Kg		53	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*98*		*38 - 148*

Lab Sample ID: LCSD 720-162665/3-A
Matrix: Solid
Analysis Batch: 162626

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 162665

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			83.2	44.6		mg/Kg		54	36 - 112	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*94*		*38 - 148*

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58525-1

GC Semi VOA

Analysis Batch: 162625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58525-1	EX 10/11-PH4	Silica Gel Cleanup	Solid	8015B	162665
720-58525-2	EX 10/11-PH5	Silica Gel Cleanup	Solid	8015B	162665

Analysis Batch: 162626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-162665/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	162665
LCSD 720-162665/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	162665
MB 720-162665/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	162665

Prep Batch: 162665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58525-1	EX 10/11-PH4	Silica Gel Cleanup	Solid	3546	
720-58525-2	EX 10/11-PH5	Silica Gel Cleanup	Solid	3546	
LCS 720-162665/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-162665/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-162665/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58525-1

Client Sample ID: EX 10/11-PH4

Lab Sample ID: 720-58525-1

Date Collected: 07/09/14 11:10

Matrix: Solid

Date Received: 07/09/14 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			162665	07/09/14 15:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	162625	07/10/14 00:05	DCH	TAL PLS

Client Sample ID: EX 10/11-PH5

Lab Sample ID: 720-58525-2

Date Collected: 07/09/14 11:15

Matrix: Solid

Date Received: 07/09/14 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			162665	07/09/14 15:40	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	162625	07/10/14 00:29	DCH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58525-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58525-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58525-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-58525-1	EX 10/11-PH4	Solid	07/09/14 11:10	07/09/14 14:00
720-58525-2	EX 10/11-PH5	Solid	07/09/14 11:15	07/09/14 14:00

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TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-6002

720-58525

Reference #: 154850

Date 7/9/14 Page 1 of 1

7/10/2014

Report To

Attn: Jim Green
Company: H&A
Address: 2033 N Main St WC, CA
Email: Jgreen@haleyaldrich.com
Bill To: H&A
Sampled By: Jackson/Green
Attn: Accts Payable
Phone: 925-949-1016

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☑ Silica Gel ☑ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ WET (STLC) ☐ WET (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
EX 10/11-PH4	7/9/14	11:10	soil	ice				X																	1
EX 10/11-PH5	7/9/14	11:15	soil	ice				X																	1

720-58525 Chain of Custody

RUSH

Project Info.

Project Name/ #: Former Hanson aggregate radium plant
PO#: 397 92-048
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers: 2
Head Space:
Temp: 6°c

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | (1 Day) | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1400	Signature: Time:	Signature: Time:
Printed Name: Emily Jackson Date: 7/9/14	Printed Name: Date:	Printed Name: Date:
Company: H&A	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1400	Signature: Time:	Signature: Time:
Printed Name: [signature] 7-9-14 Date:	Printed Name: Date:	Printed Name: Date:
Company: [signature]	Company:	Company:

Rev.10/2012

Page 14 of 15

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-58525-1

Login Number: 58525

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-58563-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Jim Green

Authorized for release by:
7/11/2014 4:10:06 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58563-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58563-1

Job ID: 720-58563-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-58563-1

Comments
No additional comments.

Receipt
The samples were received on 7/10/2014 3:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 10.6º C.

GC Semi VOA
Method 8015B: The following sample required a dilution due to the nature of the sample matrix: EX7-S20 (720-58563-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58563-1

Client Sample ID: EX6-S18 — Lab Sample ID: 720-58563-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	87		3.0		mg/Kg	3		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	270		150		mg/Kg	3		8015B	Total/NA

Client Sample ID: EX7-S20 — Lab Sample ID: 720-58563-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	140		9.9		mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	780		500		mg/Kg	10		8015B	Total/NA

Client Sample ID: EX7-S21 — Lab Sample ID: 720-58563-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	22		0.99		mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	120		49		mg/Kg	1		8015B	Total/NA

Client Sample ID: EX3/4-S11 — Lab Sample ID: 720-58563-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.4		0.98		mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58563-1

Client Sample ID: EX6-S18
Date Collected: 07/10/14 14:50
Date Received: 07/10/14 15:55

Lab Sample ID: 720-58563-1
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	87		3.0		mg/Kg		07/10/14 17:11	07/10/14 23:19	3
Motor Oil Range Organics [C24-C36]	270		150		mg/Kg		07/10/14 17:11	07/10/14 23:19	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*89*		*40 - 130*	*07/10/14 17:11*	*07/10/14 23:19*	*3*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58563-1

Client Sample ID: EX7-S20
Date Collected: 07/10/14 14:52
Date Received: 07/10/14 15:55

Lab Sample ID: 720-58563-2
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	140		9.9		mg/Kg		07/10/14 17:11	07/10/14 22:05	10
Motor Oil Range Organics [C24-C36]	780		500		mg/Kg		07/10/14 17:11	07/10/14 22:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*07/10/14 17:11*	*07/10/14 22:05*	*10*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58563-1

Client Sample ID: EX7-S21
Date Collected: 07/10/14 14:57
Date Received: 07/10/14 15:55

Lab Sample ID: 720-58563-3
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	22		0.99		mg/Kg		07/10/14 17:11	07/10/14 23:43	1
Motor Oil Range Organics [C24-C36]	120		49		mg/Kg		07/10/14 17:11	07/10/14 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*114*		*40 - 130*	*07/10/14 17:11*	*07/10/14 23:43*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58563-1

Client Sample ID: EX3/4-S11
Date Collected: 07/10/14 14:45
Date Received: 07/10/14 15:55

Lab Sample ID: 720-58563-4
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**3.4**		0.98		mg/Kg		07/10/14 17:11	07/10/14 22:54	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		07/10/14 17:11	07/10/14 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*106*		*40 - 130*	*07/10/14 17:11*	*07/10/14 22:54*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-162769/1-A
Matrix: Solid
Analysis Batch: 162727

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 162769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		07/10/14 14:06	07/11/14 04:59	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/10/14 14:06	07/11/14 04:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*106*		*40 - 130*	*07/10/14 14:06*	*07/11/14 04:59*	*1*

Lab Sample ID: LCS 720-162769/2-A
Matrix: Solid
Analysis Batch: 162727

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162769

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.5	76.0		mg/Kg		92	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*107*		*40 - 130*

Lab Sample ID: LCSD 720-162769/3-A
Matrix: Solid
Analysis Batch: 162727

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 162769

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.3	75.7		mg/Kg		92	50 - 150	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*106*		*40 - 130*

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58563-1

GC Semi VOA

Analysis Batch: 162727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58563-1	EX6-S18	Total/NA	Solid	8015B	162769
720-58563-2	EX7-S20	Total/NA	Solid	8015B	162769
720-58563-3	EX7-S21	Total/NA	Solid	8015B	162769
720-58563-4	EX3/4-S11	Total/NA	Solid	8015B	162769
LCS 720-162769/2-A	Lab Control Sample	Total/NA	Solid	8015B	162769
LCSD 720-162769/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	162769
MB 720-162769/1-A	Method Blank	Total/NA	Solid	8015B	162769

Prep Batch: 162769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58563-1	EX6-S18	Total/NA	Solid	3546	
720-58563-2	EX7-S20	Total/NA	Solid	3546	
720-58563-3	EX7-S21	Total/NA	Solid	3546	
720-58563-4	EX3/4-S11	Total/NA	Solid	3546	
LCS 720-162769/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-162769/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-162769/1-A	Method Blank	Total/NA	Solid	3546	

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58563-1

Client Sample ID: EX6-S18

Lab Sample ID: 720-58563-1

Date Collected: 07/10/14 14:50

Matrix: Solid

Date Received: 07/10/14 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			162769	07/10/14 17:11	DFR	TAL PLS
Total/NA	Analysis	8015B		3	162727	07/10/14 23:19	JL	TAL PLS

Client Sample ID: EX7-S20

Lab Sample ID: 720-58563-2

Date Collected: 07/10/14 14:52

Matrix: Solid

Date Received: 07/10/14 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			162769	07/10/14 17:11	DFR	TAL PLS
Total/NA	Analysis	8015B		10	162727	07/10/14 22:05	JL	TAL PLS

Client Sample ID: EX7-S21

Lab Sample ID: 720-58563-3

Date Collected: 07/10/14 14:57

Matrix: Solid

Date Received: 07/10/14 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			162769	07/10/14 17:11	DFR	TAL PLS
Total/NA	Analysis	8015B		1	162727	07/10/14 23:43	JL	TAL PLS

Client Sample ID: EX3/4-S11

Lab Sample ID: 720-58563-4

Date Collected: 07/10/14 14:45

Matrix: Solid

Date Received: 07/10/14 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			162769	07/10/14 17:11	DFR	TAL PLS
Total/NA	Analysis	8015B		1	162727	07/10/14 22:54	JL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58563-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58563-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58563-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-58563-1	EX6-S18	Solid	07/10/14 14:50	07/10/14 15:55
720-58563-2	EX7-S20	Solid	07/10/14 14:52	07/10/14 15:55
720-58563-3	EX7-S21	Solid	07/10/14 14:57	07/10/14 15:55
720-58563-4	EX3/4-S11	Solid	07/10/14 14:45	07/10/14 15:55

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

720-58563

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 154886

Date 7/8/14 Page 1 of 1

7/11/2014

Report To

Attn: Jim Green
Company: H&A
Address: 2033 N Main St WC, CA
Email: JGREENE haleyaldrich.com
Bill To: H&A
Attn: Accts Payable
Sampled By: Jackson
Phone: 925-949-1016

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Number of Containers
EX6-S18	7/10/14	14:50	soil	none				X															
EX7-S20	7/10/14	1452	↓	↓				X															
EX7-S21	7/10/14	1457	↓	↓				X															
EX3/4-S[illegible]11	7/10/14	1445	↓	↓				X															

RUSH

Page 16 of 17

Project Info.

Project Name/ #: Former Hanson Agg rad plant
PO#: 39792-048
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers: 4
Head Space:
Temp: 10.6°c

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | (1 Day) | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1555	Signature:	Time:
Printed Name: Emily Jackson Date: 7/10/14	Printed Name:	Date:
Company: Haley & Aldrich	Company:	Company:

720-58563 Chain of Custody

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1555	Signature: Time:	Signature: Time:
Printed Name: [signature] Date: 7-10-14	Printed Name: Date:	Printed Name: Date:
Company: TestAmerica	Company:	Company:

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-58563-1

Login Number: 58563

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



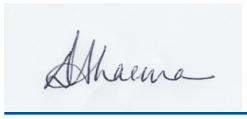
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-50986-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie



Authorized for release by:
7/22/2013 5:02:43 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-50986-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-50986-1

Comments
No additional comments.

Receipt
The samples were received on 7/17/2013 4:13 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 22.7º C.

GC/MS VOA
No analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: (720-50986-3 DU), AOC1 CONTENTS (720-50986-2), WASTE OIL (720-50986-3).

Method 8082: The following sample was diluted due to color: AOC1 CONTENTS (720-50986-2). Elevated reporting limits (RL) are provided.

Method 8082: The following sample was diluted due to color: (720-50986-3 DU), WASTE OIL (720-50986-3). Elevated reporting limits (RL) are provided.

No other analytical or quality issues were noted.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 140337 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 6010B: The serial dilution performed for the following sample associated with prep batch 140360 was outside control limits for Ba: (720-50986-1 SD)

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-50986-1

Client Sample ID: RESIDUAL H2O CLAR — Lab Sample ID: 720-50986-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	960		51		ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	790		100		ug/L	1		8015B	Total/NA
Barium	0.11		0.0050		mg/L	1		6010B	Total/NA
Cobalt	0.0020		0.0020		mg/L	1		6010B	Total/NA
Zinc	0.028		0.020		mg/L	1		6010B	Total/NA

Client Sample ID: AOC1 CONTENTS — Lab Sample ID: 720-50986-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	12000		390		mg/Kg	400		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	56000		20000		mg/Kg	400		8015B	Total/NA
Barium	100		1.9		mg/Kg	4		6010B	Total/NA
Chromium	35		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	8.3		0.78		mg/Kg	4		6010B	Total/NA
Copper	21		5.8		mg/Kg	4		6010B	Total/NA
Lead	6.2		1.9		mg/Kg	4		6010B	Total/NA
Nickel	55		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	29		1.9		mg/Kg	4		6010B	Total/NA
Zinc	53		5.8		mg/Kg	4		6010B	Total/NA
Mercury	0.020		0.0086		mg/Kg	1		7471A	Total/NA

Client Sample ID: WASTE OIL — Lab Sample ID: 720-50986-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2700		2200		ug/Kg	100		8260B	Total/NA
Ethylbenzene	9600		2200		ug/Kg	100		8260B	Total/NA
Toluene	14000		2200		ug/Kg	100		8260B	Total/NA
Xylenes, Total	43000		4300		ug/Kg	100		8260B	Total/NA
Gasoline Range Organics (GRO) -C5-C12	870000		110000		ug/Kg	100		8260B	Total/NA
Diesel Range Organics [C10-C28]	270000		7000		mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1100000		46000		mg/Kg	10		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RESIDUAL H2O CLAR

Lab Sample ID: 720-50986-1

Date Collected: 07/17/13 14:00

Matrix: Water

Date Received: 07/17/13 16:13

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			07/17/13 20:24	1
Ethylbenzene	ND		0.50		ug/L			07/17/13 20:24	1
Toluene	ND		0.50		ug/L			07/17/13 20:24	1
Xylenes, Total	ND		1.0		ug/L			07/17/13 20:24	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/17/13 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*67 - 130*		*07/17/13 20:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 138*		*07/17/13 20:24*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*07/17/13 20:24*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**960**		51		ug/L		07/17/13 19:29	07/18/13 17:55	1
Motor Oil Range Organics [C24-C36]	**790**		100		ug/L		07/17/13 19:29	07/18/13 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*73*		*23 - 156*	*07/17/13 19:29*	*07/18/13 17:55*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.51		ug/L		07/17/13 19:31	07/18/13 18:09	1
PCB-1221	ND		0.51		ug/L		07/17/13 19:31	07/18/13 18:09	1
PCB-1232	ND		0.51		ug/L		07/17/13 19:31	07/18/13 18:09	1
PCB-1242	ND		0.51		ug/L		07/17/13 19:31	07/18/13 18:09	1
PCB-1248	ND		0.51		ug/L		07/17/13 19:31	07/18/13 18:09	1
PCB-1254	ND		0.51		ug/L		07/17/13 19:31	07/18/13 18:09	1
PCB-1260	ND		0.51		ug/L		07/17/13 19:31	07/18/13 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*52*		*19 - 98*	*07/17/13 19:31*	*07/18/13 18:09*	*1*
DCB Decachlorobiphenyl	*33*		*10 - 122*	*07/17/13 19:31*	*07/18/13 18:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		07/18/13 08:52	07/19/13 14:04	1
Arsenic	ND		0.010		mg/L		07/18/13 08:52	07/19/13 14:04	1
Barium	**0.11**		0.0050		mg/L		07/18/13 08:52	07/19/13 14:04	1
Beryllium	ND		0.0020		mg/L		07/18/13 08:52	07/19/13 14:04	1
Cadmium	ND		0.0025		mg/L		07/18/13 08:52	07/19/13 14:04	1
Chromium	ND		0.010		mg/L		07/18/13 08:52	07/19/13 14:04	1
Cobalt	**0.0020**		0.0020		mg/L		07/18/13 08:52	07/19/13 14:04	1
Copper	ND		0.020		mg/L		07/18/13 08:52	07/19/13 14:04	1
Lead	ND		0.0050		mg/L		07/18/13 08:52	07/19/13 14:04	1
Molybdenum	ND		0.010		mg/L		07/18/13 08:52	07/19/13 14:04	1
Nickel	ND		0.010		mg/L		07/18/13 08:52	07/19/13 14:04	1
Selenium	ND		0.020		mg/L		07/18/13 08:52	07/19/13 14:04	1
Silver	ND		0.0050		mg/L		07/18/13 08:52	07/19/13 14:04	1
Thallium	ND		0.010		mg/L		07/18/13 08:52	07/19/13 14:04	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-50986-1

Client Sample ID: RESIDUAL H2O CLAR
Date Collected: 07/17/13 14:00
Date Received: 07/17/13 16:13

Lab Sample ID: 720-50986-1
Matrix: Water

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.010		mg/L		07/18/13 08:52	07/19/13 14:04	1
Zinc	0.028		0.020		mg/L		07/18/13 08:52	07/19/13 14:04	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		07/18/13 07:43	07/18/13 13:59	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-50986-1

Client Sample ID: AOC1 CONTENTS
Date Collected: 07/17/13 14:15
Date Received: 07/17/13 16:13

Lab Sample ID: 720-50986-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		260		ug/Kg		07/17/13 16:25	07/19/13 13:29	1
Benzene	ND		5.1		ug/Kg		07/17/13 16:25	07/19/13 13:29	1
Toluene	ND		5.1		ug/Kg		07/17/13 16:25	07/19/13 13:29	1
Ethylbenzene	ND		5.1		ug/Kg		07/17/13 16:25	07/19/13 13:29	1
Xylenes, Total	ND		10		ug/Kg		07/17/13 16:25	07/19/13 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*80*		*45 - 131*	*07/17/13 16:25*	*07/19/13 13:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*132*		*60 - 140*	*07/17/13 16:25*	*07/19/13 13:29*	*1*
Toluene-d8 (Surr)	*88*		*58 - 140*	*07/17/13 16:25*	*07/19/13 13:29*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**12000**		390		mg/Kg		07/18/13 08:11	07/20/13 11:08	400
Motor Oil Range Organics [C24-C36]	**56000**		20000		mg/Kg		07/18/13 08:11	07/20/13 11:08	400

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*07/18/13 08:11*	*07/20/13 11:08*	*400*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		250		ug/Kg		07/18/13 08:16	07/19/13 01:25	5
PCB-1221	ND		250		ug/Kg		07/18/13 08:16	07/19/13 01:25	5
PCB-1232	ND		250		ug/Kg		07/18/13 08:16	07/19/13 01:25	5
PCB-1242	ND		250		ug/Kg		07/18/13 08:16	07/19/13 01:25	5
PCB-1248	ND		250		ug/Kg		07/18/13 08:16	07/19/13 01:25	5
PCB-1254	ND		250		ug/Kg		07/18/13 08:16	07/19/13 01:25	5
PCB-1260	ND		250		ug/Kg		07/18/13 08:16	07/19/13 01:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*45 - 132*	*07/18/13 08:16*	*07/19/13 01:25*	*5*
DCB Decachlorobiphenyl	*73*		*42 - 146*	*07/18/13 08:16*	*07/19/13 01:25*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		07/17/13 19:54	07/18/13 13:46	4
Arsenic	ND		3.9		mg/Kg		07/17/13 19:54	07/18/13 13:46	4
Barium	**100**		1.9		mg/Kg		07/17/13 19:54	07/18/13 13:46	4
Beryllium	ND		0.39		mg/Kg		07/17/13 19:54	07/18/13 13:46	4
Cadmium	ND		0.49		mg/Kg		07/17/13 19:54	07/18/13 13:46	4
Chromium	**35**		1.9		mg/Kg		07/17/13 19:54	07/18/13 13:46	4
Cobalt	**8.3**		0.78		mg/Kg		07/17/13 19:54	07/18/13 13:46	4
Copper	**21**		5.8		mg/Kg		07/17/13 19:54	07/18/13 13:46	4
Lead	**6.2**		1.9		mg/Kg		07/17/13 19:54	07/18/13 13:46	4
Molybdenum	ND		1.9		mg/Kg		07/17/13 19:54	07/18/13 13:46	4
Nickel	**55**		1.9		mg/Kg		07/17/13 19:54	07/18/13 13:46	4
Selenium	ND		3.9		mg/Kg		07/17/13 19:54	07/18/13 13:46	4
Silver	ND		0.97		mg/Kg		07/17/13 19:54	07/18/13 13:46	4
Thallium	ND		1.9		mg/Kg		07/17/13 19:54	07/18/13 13:46	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-50986-1

Client Sample ID: AOC1 CONTENTS
Date Collected: 07/17/13 14:15
Date Received: 07/17/13 16:13

Lab Sample ID: 720-50986-2
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	29		1.9		mg/Kg		07/17/13 19:54	07/18/13 13:46	4
Zinc	53		5.8		mg/Kg		07/17/13 19:54	07/18/13 13:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.0086		mg/Kg		07/18/13 11:50	07/18/13 20:32	1

Client Sample ID: WASTE OIL
Date Collected: 07/17/13 13:00
Date Received: 07/17/13 16:13

Lab Sample ID: 720-50986-3
Matrix: Waste

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2700		2200		ug/Kg		07/18/13 16:40	07/19/13 20:56	100
Ethylbenzene	9600		2200		ug/Kg		07/18/13 16:40	07/19/13 20:56	100
Toluene	14000		2200		ug/Kg		07/18/13 16:40	07/19/13 20:56	100
Xylenes, Total	43000		4300		ug/Kg		07/18/13 16:40	07/19/13 20:56	100
Gasoline Range Organics (GRO) -C5-C12	870000		110000		ug/Kg		07/18/13 16:40	07/19/13 20:56	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*109*		*66 - 148*	*07/18/13 16:40*	*07/19/13 20:56*	*100*
1,2-Dichloroethane-d4 (Surr)	*94*		*62 - 137*	*07/18/13 16:40*	*07/19/13 20:56*	*100*
Toluene-d8 (Surr)	*105*		*65 - 141*	*07/18/13 16:40*	*07/19/13 20:56*	*100*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	270000		7000		mg/Kg		07/20/13 10:10	07/20/13 20:10	10
Motor Oil Range Organics [C24-C36]	1100000		46000		mg/Kg		07/20/13 10:10	07/20/13 20:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*50 - 130*	*07/20/13 10:10*	*07/20/13 20:10*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1200		ug/Kg		07/20/13 10:12	07/20/13 14:40	5
PCB-1221	ND		1200		ug/Kg		07/20/13 10:12	07/20/13 14:40	5
PCB-1232	ND		1200		ug/Kg		07/20/13 10:12	07/20/13 14:40	5
PCB-1242	ND		1200		ug/Kg		07/20/13 10:12	07/20/13 14:40	5
PCB-1248	ND		1200		ug/Kg		07/20/13 10:12	07/20/13 14:40	5
PCB-1254	ND		1200		ug/Kg		07/20/13 10:12	07/20/13 14:40	5
PCB-1260	ND		1200		ug/Kg		07/20/13 10:12	07/20/13 14:40	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*42 - 147*	*07/20/13 10:12*	*07/20/13 14:40*	*5*
DCB Decachlorobiphenyl	*98*		*30 - 148*	*07/20/13 10:12*	*07/20/13 14:40*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.46		mg/Kg		07/17/13 19:54	07/19/13 22:07	1
Arsenic	ND		0.92		mg/Kg		07/17/13 19:54	07/19/13 22:07	1
Barium	ND		0.46		mg/Kg		07/17/13 19:54	07/19/13 22:07	1
Beryllium	ND		0.092		mg/Kg		07/17/13 19:54	07/19/13 22:07	1
Cadmium	ND		0.11		mg/Kg		07/17/13 19:54	07/19/13 22:07	1
Chromium	ND		0.46		mg/Kg		07/17/13 19:54	07/20/13 12:11	1
Cobalt	ND		0.18		mg/Kg		07/17/13 19:54	07/19/13 22:07	1
Copper	ND		1.4		mg/Kg		07/17/13 19:54	07/19/13 22:07	1
Lead	ND		0.46		mg/Kg		07/17/13 19:54	07/19/13 22:07	1
Molybdenum	ND		0.46		mg/Kg		07/17/13 19:54	07/19/13 22:07	1
Nickel	ND		0.46		mg/Kg		07/17/13 19:54	07/19/13 22:07	1
Selenium	ND		0.92		mg/Kg		07/17/13 19:54	07/19/13 22:07	1
Silver	ND		0.23		mg/Kg		07/17/13 19:54	07/20/13 12:11	1
Thallium	ND		0.46		mg/Kg		07/17/13 19:54	07/19/13 22:07	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-50986-1

Client Sample ID: WASTE OIL
Date Collected: 07/17/13 13:00
Date Received: 07/17/13 16:13

Lab Sample ID: 720-50986-3
Matrix: Waste

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.46		mg/Kg		07/17/13 19:54	07/19/13 22:07	1
Zinc	ND		1.4		mg/Kg		07/17/13 19:54	07/19/13 22:07	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0098		mg/Kg		07/18/13 11:50	07/18/13 21:52	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCS 720-140344/20
Matrix: Waste
Analysis Batch: 140344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			5000	4830		ug/Kg		97	76 - 122		
Toluene			5000	5240		ug/Kg		105	77 - 120		
o-Xylene			5000	5420		ug/Kg		108	71 - 142		
Ethylbenzene			5000	5180		ug/Kg		104	76 - 137		
m-Xylene & p-Xylene			10000	10500		ug/Kg		105	71 - 142		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*66 - 148*
1,2-Dichloroethane-d4 (Surr)	*90*		*62 - 137*
Toluene-d8 (Surr)	*98*		*65 - 141*

Lab Sample ID: LCSD 720-140344/21
Matrix: Waste
Analysis Batch: 140344

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			5000	4820		ug/Kg		96	76 - 122	0	20
Toluene			5000	5160		ug/Kg		103	77 - 120	1	20
o-Xylene			5000	5240		ug/Kg		105	71 - 142	3	20
Ethylbenzene			5000	5130		ug/Kg		103	76 - 137	1	20
m-Xylene & p-Xylene			10000	10400		ug/Kg		104	71 - 142	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*66 - 148*
1,2-Dichloroethane-d4 (Surr)	*88*		*62 - 137*
Toluene-d8 (Surr)	*95*		*65 - 141*

Lab Sample ID: MB 720-140347/17
Matrix: Waste
Analysis Batch: 140347

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		500		ug/Kg			07/18/13 16:23	100
Toluene	ND		500		ug/Kg			07/18/13 16:23	100
Gasoline Range Organics (GRO) -C5-C12	ND		25000		ug/Kg			07/18/13 16:23	100
Ethylbenzene	ND		500		ug/Kg			07/18/13 16:23	100
Xylenes, Total	ND		1000		ug/Kg			07/18/13 16:23	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*66 - 148*		*07/18/13 16:23*	*100*
1,2-Dichloroethane-d4 (Surr)	*103*		*62 - 137*		*07/18/13 16:23*	*100*
Toluene-d8 (Surr)	*97*		*65 - 141*		*07/18/13 16:23*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-140399/8
Matrix: Waste
Analysis Batch: 140399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	100000	111000		ug/Kg		111	60 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*111*		*66 - 148*
1,2-Dichloroethane-d4 (Surr)	*93*		*62 - 137*
Toluene-d8 (Surr)	*103*		*65 - 141*

Lab Sample ID: LCSD 720-140399/9
Matrix: Waste
Analysis Batch: 140399

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	100000	113000		ug/Kg		113	60 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*111*		*66 - 148*
1,2-Dichloroethane-d4 (Surr)	*94*		*62 - 137*
Toluene-d8 (Surr)	*104*		*65 - 141*

Lab Sample ID: MB 720-140432/4
Matrix: Solid
Analysis Batch: 140432

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			07/19/13 09:04	1
Toluene	ND		5.0		ug/Kg			07/19/13 09:04	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			07/19/13 09:04	1
Ethylbenzene	ND		5.0		ug/Kg			07/19/13 09:04	1
Xylenes, Total	ND		10		ug/Kg			07/19/13 09:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*76*		*45 - 131*		*07/19/13 09:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*		*07/19/13 09:04*	*1*
Toluene-d8 (Surr)	*86*		*58 - 140*		*07/19/13 09:04*	*1*

Lab Sample ID: LCS 720-140432/5
Matrix: Solid
Analysis Batch: 140432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	54.6		ug/Kg		109	70 - 130
Toluene	50.0	55.7		ug/Kg		111	80 - 128
o-Xylene	50.0	61.4		ug/Kg		123	70 - 140
Ethylbenzene	50.0	57.7		ug/Kg		115	80 - 137
m-Xylene & p-Xylene	100	121		ug/Kg		121	70 - 146

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-140432/5
Matrix: Solid
Analysis Batch: 140432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	106		45 - 131
1,2-Dichloroethane-d4 (Surr)	103		60 - 140
Toluene-d8 (Surr)	96		58 - 140

Lab Sample ID: LCS 720-140432/7
Matrix: Solid
Analysis Batch: 140432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			1000	1040		ug/Kg		104	61 - 128		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	96		45 - 131
1,2-Dichloroethane-d4 (Surr)	104		60 - 140
Toluene-d8 (Surr)	103		58 - 140

Lab Sample ID: LCSD 720-140432/6
Matrix: Solid
Analysis Batch: 140432

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			50.0	53.6		ug/Kg		107	70 - 130	2	20
Toluene			50.0	54.3		ug/Kg		109	80 - 128	3	20
o-Xylene			50.0	60.5		ug/Kg		121	70 - 140	1	20
Ethylbenzene			50.0	57.3		ug/Kg		115	80 - 137	1	20
m-Xylene & p-Xylene			100	119		ug/Kg		119	70 - 146	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	108		45 - 131
1,2-Dichloroethane-d4 (Surr)	104		60 - 140
Toluene-d8 (Surr)	98		58 - 140

Lab Sample ID: LCSD 720-140432/8
Matrix: Solid
Analysis Batch: 140432

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1020		ug/Kg		102	61 - 128	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	97		45 - 131
1,2-Dichloroethane-d4 (Surr)	110		60 - 140
Toluene-d8 (Surr)	101		58 - 140

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-140281/4
Matrix: Water
Analysis Batch: 140281

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50		ug/L			07/17/13 10:54	1
Toluene	ND		0.50		ug/L			07/17/13 10:54	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			07/17/13 10:54	1
Ethylbenzene	ND		0.50		ug/L			07/17/13 10:54	1
Xylenes, Total	ND		1.0		ug/L			07/17/13 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*67 - 130*		*07/17/13 10:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 138*		*07/17/13 10:54*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/17/13 10:54*	*1*

Lab Sample ID: LCS 720-140281/5
Matrix: Water
Analysis Batch: 140281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			25.0	25.6		ug/L		102	79 - 130		
Toluene			25.0	26.8		ug/L		107	78 - 120		
o-Xylene			25.0	26.5		ug/L		106	70 - 130		
Ethylbenzene			25.0	26.5		ug/L		106	80 - 120		
m-Xylene & p-Xylene			50.0	54.7		ug/L		109	70 - 142		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 138*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: LCS 720-140281/7
Matrix: Water
Analysis Batch: 140281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			500	464		ug/L		93	62 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 138*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 720-140281/6
Matrix: Water
Analysis Batch: 140281

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	24.4		ug/L		98	79 - 130	5	20
Toluene			25.0	25.3		ug/L		101	78 - 120	6	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-140281/6
Matrix: Water
Analysis Batch: 140281

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene			25.0	25.3		ug/L		101	70 - 130	4	20
Ethylbenzene			25.0	25.5		ug/L		102	80 - 120	4	20
m-Xylene & p-Xylene			50.0	52.6		ug/L		105	70 - 142	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 138*
Toluene-d8 (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 720-140281/8
Matrix: Water
Analysis Batch: 140281

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	529		ug/L		106	62 - 120	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 138*
Toluene-d8 (Surr)	*105*		*70 - 130*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-140287/1-A
Matrix: Water
Analysis Batch: 140261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140287

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		07/17/13 11:34	07/18/13 02:27	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		07/17/13 11:34	07/18/13 02:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*76*		*23 - 156*	*07/17/13 11:34*	*07/18/13 02:27*	*1*

Lab Sample ID: LCS 720-140287/2-A
Matrix: Water
Analysis Batch: 140261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140287

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			2500	1140		ug/L		46	40 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*75*		*23 - 156*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-140287/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 140261 — **Prep Batch: 140287**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2500	1210		ug/L		48	40 - 150	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*79*		*23 - 156*

Lab Sample ID: MB 720-140356/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 140348 — **Prep Batch: 140356**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		07/18/13 08:11	07/18/13 23:37	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		07/18/13 08:11	07/18/13 23:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*96*		*40 - 130*	*07/18/13 08:11*	*07/18/13 23:37*	*1*

Lab Sample ID: LCS 720-140356/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 140348 — **Prep Batch: 140356**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.2	71.3		mg/Kg		86	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*102*		*40 - 130*

Lab Sample ID: LCSD 720-140356/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 140348 — **Prep Batch: 140356**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	83.3	68.5		mg/Kg		82	50 - 150	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*100*		*40 - 130*

Lab Sample ID: MB 720-140544/1-A — **Client Sample ID: Method Blank**
Matrix: Waste — **Prep Type: Total/NA**
Analysis Batch: 140528 — **Prep Batch: 140544**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		750		mg/Kg		07/20/13 10:10	07/20/13 18:42	1
Motor Oil Range Organics [C24-C36]	ND		5000		mg/Kg		07/20/13 10:10	07/20/13 18:42	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-140544/1-A
Matrix: Waste
Analysis Batch: 140528

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140544

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	*119*		*50 - 130*	*07/20/13 10:10*	*07/20/13 18:42*	*1*

Lab Sample ID: LCS 720-140544/2-A
Matrix: Waste
Analysis Batch: 140528

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140544

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			50000	57100		mg/Kg		114	50 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*124*		*50 - 130*

Lab Sample ID: LCSD 720-140544/3-A
Matrix: Waste
Analysis Batch: 140528

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140544

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			50000	56500		mg/Kg		113	50 - 130	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	*123*		*50 - 130*

Lab Sample ID: 720-50986-3 DU
Matrix: Waste
Analysis Batch: 140528

Client Sample ID: WASTE OIL
Prep Type: Total/NA
Prep Batch: 140544

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Diesel Range Organics [C10-C28]	270000			236000		mg/Kg				14	20
Motor Oil Range Organics [C24-C36]	1100000			1100000		mg/Kg				3	20

Surrogate	DU %Recovery	DU Qualifier	Limits
p-Terphenyl	*0*	*X D*	*50 - 130*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 720-140299/1-A
Matrix: Water
Analysis Batch: 140381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50		ug/L		07/17/13 13:50	07/18/13 21:30	1
PCB-1221	ND		0.50		ug/L		07/17/13 13:50	07/18/13 21:30	1
PCB-1232	ND		0.50		ug/L		07/17/13 13:50	07/18/13 21:30	1
PCB-1242	ND		0.50		ug/L		07/17/13 13:50	07/18/13 21:30	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 720-140299/1-A
Matrix: Water
Analysis Batch: 140381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	ND		0.50		ug/L		07/17/13 13:50	07/18/13 21:30	1
PCB-1254	ND		0.50		ug/L		07/17/13 13:50	07/18/13 21:30	1
PCB-1260	ND		0.50		ug/L		07/17/13 13:50	07/18/13 21:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*49*		*19 - 98*	*07/17/13 13:50*	*07/18/13 21:30*	*1*
DCB Decachlorobiphenyl	*59*		*10 - 122*	*07/17/13 13:50*	*07/18/13 21:30*	*1*

Lab Sample ID: LCS 720-140299/2-A
Matrix: Water
Analysis Batch: 140381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140299

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			4.00	2.54		ug/L		64	54 - 107		
PCB-1260			4.00	2.94		ug/L		73	65 - 111		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*48*		*19 - 98*
DCB Decachlorobiphenyl	*64*		*10 - 122*

Lab Sample ID: LCSD 720-140299/3-A
Matrix: Water
Analysis Batch: 140381

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140299

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			4.00	2.53		ug/L		63	54 - 107	1	20
PCB-1260			4.00	2.95		ug/L		74	65 - 111	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*48*		*19 - 98*
DCB Decachlorobiphenyl	*64*		*10 - 122*

Lab Sample ID: MB 720-140357/1-A
Matrix: Solid
Analysis Batch: 140381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140357

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		48		ug/Kg		07/18/13 08:16	07/19/13 09:16	1
PCB-1221	ND		48		ug/Kg		07/18/13 08:16	07/19/13 09:16	1
PCB-1232	ND		48		ug/Kg		07/18/13 08:16	07/19/13 09:16	1
PCB-1242	ND		48		ug/Kg		07/18/13 08:16	07/19/13 09:16	1
PCB-1248	ND		48		ug/Kg		07/18/13 08:16	07/19/13 09:16	1
PCB-1254	ND		48		ug/Kg		07/18/13 08:16	07/19/13 09:16	1
PCB-1260	ND		48		ug/Kg		07/18/13 08:16	07/19/13 09:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*45 - 132*	*07/18/13 08:16*	*07/19/13 09:16*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 720-140357/1-A
Matrix: Solid
Analysis Batch: 140381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140357

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		42 - 146	07/18/13 08:16	07/19/13 09:16	1

Lab Sample ID: LCS 720-140357/2-A
Matrix: Solid
Analysis Batch: 140381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	130	118		ug/Kg		91	72 - 127
PCB-1260	130	129		ug/Kg		99	74 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	78		45 - 132
DCB Decachlorobiphenyl	90		42 - 146

Lab Sample ID: LCSD 720-140357/3-A
Matrix: Solid
Analysis Batch: 140381

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140357

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	132	110		ug/Kg		83	72 - 127	8	20
PCB-1260	132	119		ug/Kg		90	74 - 129	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	74		45 - 132
DCB Decachlorobiphenyl	80		42 - 146

Lab Sample ID: MB 720-140545/1-A
Matrix: Waste
Analysis Batch: 140519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140545

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		250		ug/Kg		07/20/13 10:12	07/20/13 17:05	1
PCB-1221	ND		250		ug/Kg		07/20/13 10:12	07/20/13 17:05	1
PCB-1232	ND		250		ug/Kg		07/20/13 10:12	07/20/13 17:05	1
PCB-1242	ND		250		ug/Kg		07/20/13 10:12	07/20/13 17:05	1
PCB-1248	ND		250		ug/Kg		07/20/13 10:12	07/20/13 17:05	1
PCB-1254	ND		250		ug/Kg		07/20/13 10:12	07/20/13 17:05	1
PCB-1260	ND		250		ug/Kg		07/20/13 10:12	07/20/13 17:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	117		42 - 147	07/20/13 10:12	07/20/13 17:05	1
DCB Decachlorobiphenyl	102		30 - 148	07/20/13 10:12	07/20/13 17:05	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 720-140545/2-A
Matrix: Waste
Analysis Batch: 140519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140545

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			4000	4950		ug/Kg		124	65 - 135		
PCB-1260			4000	4640		ug/Kg		116	65 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*116*		*42 - 147*
DCB Decachlorobiphenyl	*100*		*30 - 148*

Lab Sample ID: LCSD 720-140545/3-A
Matrix: Waste
Analysis Batch: 140519

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140545

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			4000	5110		ug/Kg		128	65 - 135	3	20
PCB-1260			4000	4810		ug/Kg		120	65 - 135	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*120*		*42 - 147*
DCB Decachlorobiphenyl	*102*		*30 - 148*

Lab Sample ID: 720-50986-3 DU
Matrix: Waste
Analysis Batch: 140519

Client Sample ID: WASTE OIL
Prep Type: Total/NA
Prep Batch: 140545

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
PCB-1016	ND			ND		ug/Kg				NC	20
PCB-1221	ND			ND		ug/Kg				NC	20
PCB-1232	ND			ND		ug/Kg				NC	20
PCB-1242	ND			ND		ug/Kg				NC	20
PCB-1248	ND			ND		ug/Kg				NC	20
PCB-1254	ND			ND		ug/Kg				NC	20
PCB-1260	ND			ND		ug/Kg				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
Tetrachloro-m-xylene	*102*		*42 - 147*
DCB Decachlorobiphenyl	*96*		*30 - 148*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-140337/1-A
Matrix: Solid
Analysis Batch: 140393

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		07/17/13 19:54	07/18/13 13:16	1
Arsenic	ND		1.0		mg/Kg		07/17/13 19:54	07/18/13 13:16	1
Barium	ND		0.50		mg/Kg		07/17/13 19:54	07/18/13 13:16	1
Beryllium	ND		0.10		mg/Kg		07/17/13 19:54	07/18/13 13:16	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-140337/1-A
Matrix: Solid
Analysis Batch: 140393

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.13		mg/Kg		07/17/13 19:54	07/18/13 13:16	1
Chromium	ND		0.50		mg/Kg		07/17/13 19:54	07/18/13 13:16	1
Cobalt	ND		0.20		mg/Kg		07/17/13 19:54	07/18/13 13:16	1
Copper	ND		1.5		mg/Kg		07/17/13 19:54	07/18/13 13:16	1
Lead	ND		0.50		mg/Kg		07/17/13 19:54	07/18/13 13:16	1
Molybdenum	ND		0.50		mg/Kg		07/17/13 19:54	07/18/13 13:16	1
Nickel	ND		0.50		mg/Kg		07/17/13 19:54	07/18/13 13:16	1
Selenium	ND		1.0		mg/Kg		07/17/13 19:54	07/18/13 13:16	1
Silver	ND		0.25		mg/Kg		07/17/13 19:54	07/18/13 13:16	1
Thallium	ND		0.50		mg/Kg		07/17/13 19:54	07/18/13 13:16	1
Vanadium	ND		0.50		mg/Kg		07/17/13 19:54	07/18/13 13:16	1
Zinc	ND		1.5		mg/Kg		07/17/13 19:54	07/18/13 13:16	1

Lab Sample ID: LCS 720-140337/2-A
Matrix: Solid
Analysis Batch: 140393

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.9		mg/Kg		98	80 - 120
Arsenic	50.0	49.0		mg/Kg		98	80 - 120
Barium	50.0	48.0		mg/Kg		96	80 - 120
Beryllium	50.0	48.8		mg/Kg		98	80 - 120
Cadmium	50.0	50.7		mg/Kg		101	80 - 120
Chromium	50.0	49.2		mg/Kg		98	80 - 120
Cobalt	50.0	50.5		mg/Kg		101	80 - 120
Copper	50.0	50.0		mg/Kg		100	80 - 120
Lead	50.0	50.6		mg/Kg		101	80 - 120
Molybdenum	50.0	50.7		mg/Kg		101	80 - 120
Nickel	50.0	50.8		mg/Kg		102	80 - 120
Selenium	50.0	48.2		mg/Kg		96	80 - 120
Silver	25.0	24.0		mg/Kg		96	80 - 120
Thallium	50.0	50.6		mg/Kg		101	80 - 120
Vanadium	50.0	48.6		mg/Kg		97	80 - 120
Zinc	50.0	49.5		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 720-140337/3-A
Matrix: Solid
Analysis Batch: 140393

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140337

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	50.7		mg/Kg		101	80 - 120	4	20
Arsenic	50.0	50.8		mg/Kg		102	80 - 120	4	20
Barium	50.0	49.2		mg/Kg		98	80 - 120	3	20
Beryllium	50.0	50.0		mg/Kg		100	80 - 120	2	20
Cadmium	50.0	52.3		mg/Kg		105	80 - 120	3	20
Chromium	50.0	50.8		mg/Kg		102	80 - 120	3	20
Cobalt	50.0	52.1		mg/Kg		104	80 - 120	3	20
Copper	50.0	51.3		mg/Kg		103	80 - 120	3	20
Lead	50.0	52.0		mg/Kg		104	80 - 120	3	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 720-140337/3-A
Matrix: Solid
Analysis Batch: 140393

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140337

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Molybdenum			50.0	52.3		mg/Kg		105	80 - 120	3	20
Nickel			50.0	52.4		mg/Kg		105	80 - 120	3	20
Selenium			50.0	49.7		mg/Kg		99	80 - 120	3	20
Silver			25.0	24.9		mg/Kg		99	80 - 120	3	20
Thallium			50.0	52.3		mg/Kg		105	80 - 120	3	20
Vanadium			50.0	50.0		mg/Kg		100	80 - 120	3	20
Zinc			50.0	51.0		mg/Kg		102	80 - 120	3	20

Lab Sample ID: 720-50986-3 MS
Matrix: Waste
Analysis Batch: 140526

Client Sample ID: WASTE OIL
Prep Type: Total/NA
Prep Batch: 140337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		48.1	35.2	F	mg/Kg		73	75 - 125
Arsenic	ND		48.1	39.3		mg/Kg		82	75 - 125
Barium	ND		48.1	42.9		mg/Kg		89	75 - 125
Beryllium	ND		48.1	39.4		mg/Kg		82	75 - 125
Cadmium	ND		48.1	43.0		mg/Kg		89	75 - 125
Cobalt	ND		48.1	42.5		mg/Kg		88	75 - 125
Copper	ND		48.1	38.9		mg/Kg		81	75 - 125
Lead	ND		48.1	40.1		mg/Kg		83	75 - 125
Molybdenum	ND		48.1	41.9		mg/Kg		87	75 - 125
Nickel	ND		48.1	38.4		mg/Kg		80	75 - 125
Selenium	ND		48.1	40.1		mg/Kg		83	75 - 125
Thallium	ND		48.1	42.3		mg/Kg		88	75 - 125
Vanadium	ND		48.1	41.2		mg/Kg		86	75 - 125
Zinc	ND		48.1	43.2		mg/Kg		90	75 - 125

Lab Sample ID: 720-50986-3 MS
Matrix: Waste
Analysis Batch: 140562

Client Sample ID: WASTE OIL
Prep Type: Total/NA
Prep Batch: 140337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	ND		48.1	43.0		mg/Kg		89	75 - 125
Silver	ND		24.0	16.2	F	mg/Kg		67	75 - 125

Lab Sample ID: 720-50986-3 MSD
Matrix: Waste
Analysis Batch: 140526

Client Sample ID: WASTE OIL
Prep Type: Total/NA
Prep Batch: 140337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		48.5	5.08	F	mg/Kg		10	75 - 125	150	20
Arsenic	ND		48.5	5.41	F	mg/Kg		11	75 - 125	152	20
Barium	ND		48.5	6.02	F	mg/Kg		12	75 - 125	151	20
Beryllium	ND		48.5	5.45	F	mg/Kg		11	75 - 125	151	20
Cadmium	ND		48.5	6.08	F	mg/Kg		13	75 - 125	150	20
Cobalt	ND		48.5	6.06	F	mg/Kg		12	75 - 125	150	20
Copper	ND		48.5	5.52	F	mg/Kg		11	75 - 125	150	20
Lead	ND		48.5	5.88	F	mg/Kg		12	75 - 125	149	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-50986-3 MSD
Matrix: Waste
Analysis Batch: 140526

Client Sample ID: WASTE OIL
Prep Type: Total/NA
Prep Batch: 140337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Molybdenum	ND		48.5	5.43	F	mg/Kg		11	75 - 125	154	20
Nickel	ND		48.5	5.51	F	mg/Kg		11	75 - 125	150	20
Selenium	ND		48.5	5.65	F	mg/Kg		12	75 - 125	151	20
Thallium	ND		48.5	6.33	F	mg/Kg		13	75 - 125	148	20
Vanadium	ND		48.5	5.54	F	mg/Kg		11	75 - 125	153	20
Zinc	ND		48.5	6.21	F	mg/Kg		13	75 - 125	150	20

Lab Sample ID: 720-50986-3 MSD
Matrix: Waste
Analysis Batch: 140562

Client Sample ID: WASTE OIL
Prep Type: Total/NA
Prep Batch: 140337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	ND		48.5	18.0	F	mg/Kg		37	75 - 125	82	20
Silver	ND		24.3	11.2	F	mg/Kg		46	75 - 125	36	20

Lab Sample ID: MB 720-140360/1-A
Matrix: Water
Analysis Batch: 140485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010		mg/L		07/18/13 08:52	07/19/13 13:43	1
Arsenic	ND		0.010		mg/L		07/18/13 08:52	07/19/13 13:43	1
Barium	ND		0.0050		mg/L		07/18/13 08:52	07/19/13 13:43	1
Beryllium	ND		0.0020		mg/L		07/18/13 08:52	07/19/13 13:43	1
Cadmium	ND		0.0025		mg/L		07/18/13 08:52	07/19/13 13:43	1
Chromium	ND		0.010		mg/L		07/18/13 08:52	07/19/13 13:43	1
Cobalt	ND		0.0020		mg/L		07/18/13 08:52	07/19/13 13:43	1
Copper	ND		0.020		mg/L		07/18/13 08:52	07/19/13 13:43	1
Lead	ND		0.0050		mg/L		07/18/13 08:52	07/19/13 13:43	1
Molybdenum	ND		0.010		mg/L		07/18/13 08:52	07/19/13 13:43	1
Nickel	ND		0.010		mg/L		07/18/13 08:52	07/19/13 13:43	1
Selenium	ND		0.020		mg/L		07/18/13 08:52	07/19/13 13:43	1
Silver	ND		0.0050		mg/L		07/18/13 08:52	07/19/13 13:43	1
Thallium	ND		0.010		mg/L		07/18/13 08:52	07/19/13 13:43	1
Vanadium	ND		0.010		mg/L		07/18/13 08:52	07/19/13 13:43	1
Zinc	ND		0.020		mg/L		07/18/13 08:52	07/19/13 13:43	1

Lab Sample ID: LCS 720-140360/2-A
Matrix: Water
Analysis Batch: 140485

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.00	0.941		mg/L		94	80 - 120
Arsenic	1.00	0.964		mg/L		96	80 - 120
Barium	1.00	0.956		mg/L		96	80 - 120
Beryllium	1.00	0.986		mg/L		99	80 - 120
Cadmium	1.00	0.940		mg/L		94	80 - 120
Chromium	1.00	1.01		mg/L		101	80 - 120
Cobalt	1.00	0.975		mg/L		97	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-140360/2-A
Matrix: Water
Analysis Batch: 140485

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	1.00	1.00		mg/L		100	80 - 120
Lead	1.00	0.993		mg/L		99	80 - 120
Molybdenum	1.00	0.996		mg/L		100	80 - 120
Nickel	1.00	1.02		mg/L		102	80 - 120
Selenium	1.00	0.949		mg/L		95	80 - 120
Silver	0.500	0.461		mg/L		92	80 - 120
Thallium	1.00	0.993		mg/L		99	80 - 120
Vanadium	1.00	0.972		mg/L		97	80 - 120
Zinc	1.00	0.959		mg/L		96	80 - 120

Lab Sample ID: LCSD 720-140360/3-A
Matrix: Water
Analysis Batch: 140485

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140360

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.00	0.942		mg/L		94	80 - 120	0	20
Arsenic	1.00	0.969		mg/L		97	80 - 120	1	20
Barium	1.00	0.956		mg/L		96	80 - 120	0	20
Beryllium	1.00	0.992		mg/L		99	80 - 120	1	20
Cadmium	1.00	0.941		mg/L		94	80 - 120	0	20
Chromium	1.00	1.01		mg/L		101	80 - 120	1	20
Cobalt	1.00	0.978		mg/L		98	80 - 120	0	20
Copper	1.00	1.01		mg/L		101	80 - 120	1	20
Lead	1.00	0.998		mg/L		100	80 - 120	0	20
Molybdenum	1.00	1.00		mg/L		100	80 - 120	1	20
Nickel	1.00	1.02		mg/L		102	80 - 120	1	20
Selenium	1.00	0.954		mg/L		95	80 - 120	1	20
Silver	0.500	0.463		mg/L		93	80 - 120	0	20
Thallium	1.00	1.00		mg/L		100	80 - 120	1	20
Vanadium	1.00	0.974		mg/L		97	80 - 120	0	20
Zinc	1.00	0.965		mg/L		97	80 - 120	1	20

Lab Sample ID: 720-50986-1 MS
Matrix: Water
Analysis Batch: 140485

Client Sample ID: RESIDUAL H2O CLAR
Prep Type: Total/NA
Prep Batch: 140360

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1.00	0.961		mg/L		96	75 - 125
Arsenic	ND		1.00	0.997		mg/L		100	75 - 125
Barium	0.11		1.00	1.08		mg/L		97	75 - 125
Beryllium	ND		1.00	1.01		mg/L		101	75 - 125
Cadmium	ND		1.00	0.952		mg/L		95	75 - 125
Chromium	ND		1.00	1.03		mg/L		103	75 - 125
Cobalt	0.0020		1.00	0.989		mg/L		99	75 - 125
Copper	ND		1.00	1.03		mg/L		103	75 - 125
Lead	ND		1.00	1.00		mg/L		100	75 - 125
Molybdenum	ND		1.00	1.03		mg/L		102	75 - 125
Nickel	ND		1.00	1.03		mg/L		103	75 - 125
Selenium	ND		1.00	0.974		mg/L		97	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-50986-1 MS — **Client Sample ID: RESIDUAL H2O CLAR**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 140485 — **Prep Batch: 140360**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		0.500	0.470		mg/L		94	75 - 125
Thallium	ND		1.00	1.00		mg/L		100	75 - 125
Vanadium	ND		1.00	1.00		mg/L		100	75 - 125
Zinc	0.028		1.00	1.00		mg/L		98	75 - 125

Lab Sample ID: 720-50986-1 MSD — **Client Sample ID: RESIDUAL H2O CLAR**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 140485 — **Prep Batch: 140360**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1.00	0.946		mg/L		94	75 - 125	2	20
Arsenic	ND		1.00	0.982		mg/L		98	75 - 125	2	20
Barium	0.11		1.00	1.15		mg/L		104	75 - 125	6	20
Beryllium	ND		1.00	1.08		mg/L		108	75 - 125	6	20
Cadmium	ND		1.00	0.943		mg/L		94	75 - 125	1	20
Chromium	ND		1.00	1.01		mg/L		101	75 - 125	1	20
Cobalt	0.0020		1.00	0.970		mg/L		97	75 - 125	2	20
Copper	ND		1.00	1.02		mg/L		102	75 - 125	0	20
Lead	ND		1.00	0.982		mg/L		98	75 - 125	2	20
Molybdenum	ND		1.00	1.01		mg/L		100	75 - 125	2	20
Nickel	ND		1.00	1.01		mg/L		101	75 - 125	2	20
Selenium	ND		1.00	0.959		mg/L		96	75 - 125	2	20
Silver	ND		0.500	0.472		mg/L		94	75 - 125	0	20
Thallium	ND		1.00	0.980		mg/L		98	75 - 125	2	20
Vanadium	ND		1.00	0.990		mg/L		99	75 - 125	1	20
Zinc	0.028		1.00	0.985		mg/L		96	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 720-140354/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 140386 — **Prep Batch: 140354**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		07/18/13 07:43	07/18/13 13:40	1

Lab Sample ID: LCS 720-140354/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 140386 — **Prep Batch: 140354**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0100	0.0100		mg/L		100	85 - 115

Lab Sample ID: LCSD 720-140354/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 140386 — **Prep Batch: 140354**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0100	0.00994		mg/L		99	85 - 115	1	20

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-50986-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-140376/1-A
Matrix: Solid
Analysis Batch: 140425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140376

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		07/18/13 11:50	07/18/13 20:23	1

Lab Sample ID: LCS 720-140376/2-A
Matrix: Solid
Analysis Batch: 140425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140376

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.858		mg/Kg		103	80 - 120

Lab Sample ID: LCSD 720-140376/3-A
Matrix: Solid
Analysis Batch: 140425

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140376

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.833	0.867		mg/Kg		104	80 - 120	1	20

Lab Sample ID: 720-50986-3 MS
Matrix: Waste
Analysis Batch: 140425

Client Sample ID: WASTE OIL
Prep Type: Total/NA
Prep Batch: 140376

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.694	0.655		mg/Kg		94	75 - 125

Lab Sample ID: 720-50986-3 MSD
Matrix: Waste
Analysis Batch: 140425

Client Sample ID: WASTE OIL
Prep Type: Total/NA
Prep Batch: 140376

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.694	0.669		mg/Kg		96	75 - 125	2	20

GC/MS VOA

Analysis Batch: 140281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-1	RESIDUAL H2O CLAR	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-140281/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCS 720-140281/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-140281/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
LCSD 720-140281/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	
MB 720-140281/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

Analysis Batch: 140344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-140344/20	Lab Control Sample	Total/NA	Waste	8260B	
LCSD 720-140344/21	Lab Control Sample Dup	Total/NA	Waste	8260B	

Analysis Batch: 140347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-140347/17	Method Blank	Total/NA	Waste	8260B	

Analysis Batch: 140399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-140399/8	Lab Control Sample	Total/NA	Waste	8260B	
LCSD 720-140399/9	Lab Control Sample Dup	Total/NA	Waste	8260B	

Prep Batch: 140403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-3	WASTE OIL	Total/NA	Waste	5030B	

Analysis Batch: 140432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-2	AOC1 CONTENTS	Total/NA	Solid	8260B	140475
LCS 720-140432/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-140432/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-140432/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-140432/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-140432/4	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 140475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-2	AOC1 CONTENTS	Total/NA	Solid	5035	

Analysis Batch: 140496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-3	WASTE OIL	Total/NA	Waste	8260B	140403

GC Semi VOA

Analysis Batch: 140261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-140287/2-A	Lab Control Sample	Total/NA	Water	8015B	140287
LCSD 720-140287/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	140287
MB 720-140287/1-A	Method Blank	Total/NA	Water	8015B	140287

Prep Batch: 140287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-1	RESIDUAL H2O CLAR	Total/NA	Water	3510C	
LCS 720-140287/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-140287/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-140287/1-A	Method Blank	Total/NA	Water	3510C	

Prep Batch: 140299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-1	RESIDUAL H2O CLAR	Total/NA	Water	3510C	
LCS 720-140299/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-140299/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-140299/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 140348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-140356/2-A	Lab Control Sample	Total/NA	Solid	8015B	140356
LCSD 720-140356/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	140356
MB 720-140356/1-A	Method Blank	Total/NA	Solid	8015B	140356

Analysis Batch: 140350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-1	RESIDUAL H2O CLAR	Total/NA	Water	8015B	140287

Prep Batch: 140356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-2	AOC1 CONTENTS	Total/NA	Solid	3546	
LCS 720-140356/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-140356/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-140356/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 140357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-2	AOC1 CONTENTS	Total/NA	Solid	3546	
LCS 720-140357/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-140357/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-140357/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 140381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-1	RESIDUAL H2O CLAR	Total/NA	Water	8082	140299
720-50986-2	AOC1 CONTENTS	Total/NA	Solid	8082	140357
LCS 720-140299/2-A	Lab Control Sample	Total/NA	Water	8082	140299
LCS 720-140357/2-A	Lab Control Sample	Total/NA	Solid	8082	140357
LCSD 720-140299/3-A	Lab Control Sample Dup	Total/NA	Water	8082	140299
LCSD 720-140357/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	140357
MB 720-140299/1-A	Method Blank	Total/NA	Water	8082	140299

GC Semi VOA (Continued)

Analysis Batch: 140381 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-140357/1-A	Method Blank	Total/NA	Solid	8082	140357

Analysis Batch: 140519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-3	WASTE OIL	Total/NA	Waste	8082	140545
720-50986-3 DU	WASTE OIL	Total/NA	Waste	8082	140545
LCS 720-140545/2-A	Lab Control Sample	Total/NA	Waste	8082	140545
LCSD 720-140545/3-A	Lab Control Sample Dup	Total/NA	Waste	8082	140545
MB 720-140545/1-A	Method Blank	Total/NA	Waste	8082	140545

Analysis Batch: 140528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-2	AOC1 CONTENTS	Total/NA	Solid	8015B	140356
720-50986-3	WASTE OIL	Total/NA	Waste	8015B	140544
720-50986-3 DU	WASTE OIL	Total/NA	Waste	8015B	140544
LCS 720-140544/2-A	Lab Control Sample	Total/NA	Waste	8015B	140544
LCSD 720-140544/3-A	Lab Control Sample Dup	Total/NA	Waste	8015B	140544
MB 720-140544/1-A	Method Blank	Total/NA	Waste	8015B	140544

Prep Batch: 140544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-3	WASTE OIL	Total/NA	Waste	3580A	
720-50986-3 DU	WASTE OIL	Total/NA	Waste	3580A	
LCS 720-140544/2-A	Lab Control Sample	Total/NA	Waste	3580A	
LCSD 720-140544/3-A	Lab Control Sample Dup	Total/NA	Waste	3580A	
MB 720-140544/1-A	Method Blank	Total/NA	Waste	3580A	

Prep Batch: 140545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-3	WASTE OIL	Total/NA	Waste	3580A	
720-50986-3 DU	WASTE OIL	Total/NA	Waste	3580A	
LCS 720-140545/2-A	Lab Control Sample	Total/NA	Waste	3580A	
LCSD 720-140545/3-A	Lab Control Sample Dup	Total/NA	Waste	3580A	
MB 720-140545/1-A	Method Blank	Total/NA	Waste	3580A	

Metals

Prep Batch: 140337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-2	AOC1 CONTENTS	Total/NA	Solid	3050B	
720-50986-3	WASTE OIL	Total/NA	Waste	3050B	
720-50986-3 MS	WASTE OIL	Total/NA	Waste	3050B	
720-50986-3 MSD	WASTE OIL	Total/NA	Waste	3050B	
LCS 720-140337/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-140337/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-140337/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 140354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-1	RESIDUAL H2O CLAR	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 140354 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-140354/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 720-140354/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
MB 720-140354/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 140360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-1	RESIDUAL H2O CLAR	Total/NA	Water	3010A	
720-50986-1 MS	RESIDUAL H2O CLAR	Total/NA	Water	3010A	
720-50986-1 MSD	RESIDUAL H2O CLAR	Total/NA	Water	3010A	
LCS 720-140360/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 720-140360/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 720-140360/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 140376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-2	AOC1 CONTENTS	Total/NA	Solid	7471A	
720-50986-3	WASTE OIL	Total/NA	Waste	7471A	
720-50986-3 MS	WASTE OIL	Total/NA	Waste	7471A	
720-50986-3 MSD	WASTE OIL	Total/NA	Waste	7471A	
LCS 720-140376/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-140376/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-140376/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 140386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-1	RESIDUAL H2O CLAR	Total/NA	Water	7470A	140354
LCS 720-140354/2-A	Lab Control Sample	Total/NA	Water	7470A	140354
LCSD 720-140354/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	140354
MB 720-140354/1-A	Method Blank	Total/NA	Water	7470A	140354

Analysis Batch: 140393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-2	AOC1 CONTENTS	Total/NA	Solid	6010B	140337
LCS 720-140337/2-A	Lab Control Sample	Total/NA	Solid	6010B	140337
LCSD 720-140337/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	140337
MB 720-140337/1-A	Method Blank	Total/NA	Solid	6010B	140337

Analysis Batch: 140425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-2	AOC1 CONTENTS	Total/NA	Solid	7471A	140376
720-50986-3	WASTE OIL	Total/NA	Waste	7471A	140376
720-50986-3 MS	WASTE OIL	Total/NA	Waste	7471A	140376
720-50986-3 MSD	WASTE OIL	Total/NA	Waste	7471A	140376
LCS 720-140376/2-A	Lab Control Sample	Total/NA	Solid	7471A	140376
LCSD 720-140376/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	140376
MB 720-140376/1-A	Method Blank	Total/NA	Solid	7471A	140376

Analysis Batch: 140485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-1	RESIDUAL H2O CLAR	Total/NA	Water	6010B	140360
720-50986-1 MS	RESIDUAL H2O CLAR	Total/NA	Water	6010B	140360

Metals (Continued)

Analysis Batch: 140485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-1 MSD	RESIDUAL H2O CLAR	Total/NA	Water	6010B	140360
LCS 720-140360/2-A	Lab Control Sample	Total/NA	Water	6010B	140360
LCSD 720-140360/3-A	Lab Control Sample Dup	Total/NA	Water	6010B	140360
MB 720-140360/1-A	Method Blank	Total/NA	Water	6010B	140360

Analysis Batch: 140526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-3	WASTE OIL	Total/NA	Waste	6010B	140337
720-50986-3 MS	WASTE OIL	Total/NA	Waste	6010B	140337
720-50986-3 MSD	WASTE OIL	Total/NA	Waste	6010B	140337

Analysis Batch: 140562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-50986-3	WASTE OIL	Total/NA	Waste	6010B	140337
720-50986-3 MS	WASTE OIL	Total/NA	Waste	6010B	140337
720-50986-3 MSD	WASTE OIL	Total/NA	Waste	6010B	140337

Client Sample ID: RESIDUAL H2O CLAR

Lab Sample ID: 720-50986-1

Date Collected: 07/17/13 14:00

Matrix: Water

Date Received: 07/17/13 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	140281	07/17/13 20:24	YYB	TAL PLS
Total/NA	Prep	3510C			140287	07/17/13 19:29	MRP	TAL PLS
Total/NA	Analysis	8015B		1	140350	07/18/13 17:55	MQL	TAL PLS
Total/NA	Prep	3510C			140299	07/17/13 19:31	NDU	TAL PLS
Total/NA	Analysis	8082		1	140381	07/18/13 18:09	JZT	TAL PLS
Total/NA	Prep	7470A			140354	07/18/13 07:43	ECT	TAL PLS
Total/NA	Analysis	7470A		1	140386	07/18/13 13:59	CAM	TAL PLS
Total/NA	Prep	3010A			140360	07/18/13 08:52	JCR	TAL PLS
Total/NA	Analysis	6010B		1	140485	07/19/13 14:04	EFH	TAL PLS

Client Sample ID: AOC1 CONTENTS

Lab Sample ID: 720-50986-2

Date Collected: 07/17/13 14:15

Matrix: Solid

Date Received: 07/17/13 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			140475	07/17/13 16:25	ASC	TAL PLS
Total/NA	Analysis	8260B		1	140432	07/19/13 13:29	ASC	TAL PLS
Total/NA	Prep	3546			140357	07/18/13 08:16	NVP	TAL PLS
Total/NA	Analysis	8082		5	140381	07/19/13 01:25	JZT	TAL PLS
Total/NA	Prep	3546			140356	07/18/13 08:11	NVP	TAL PLS
Total/NA	Analysis	8015B		400	140528	07/20/13 11:08	DCH	TAL PLS
Total/NA	Prep	3050B			140337	07/17/13 19:54	ASB	TAL PLS
Total/NA	Analysis	6010B		4	140393	07/18/13 13:46	SLK	TAL PLS
Total/NA	Prep	7471A			140376	07/18/13 11:50	JCR	TAL PLS
Total/NA	Analysis	7471A		1	140425	07/18/13 20:32	SLK	TAL PLS

Client Sample ID: WASTE OIL

Lab Sample ID: 720-50986-3

Date Collected: 07/17/13 13:00

Matrix: Waste

Date Received: 07/17/13 16:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			140403	07/18/13 16:40	LPL	TAL PLS
Total/NA	Analysis	8260B		100	140496	07/19/13 20:56	LPL	TAL PLS
Total/NA	Prep	3580A			140545	07/20/13 10:12	AFM	TAL PLS
Total/NA	Analysis	8082		5	140519	07/20/13 14:40	JZT	TAL PLS
Total/NA	Prep	3580A			140544	07/20/13 10:10	AFM	TAL PLS
Total/NA	Analysis	8015B		10	140528	07/20/13 20:10	DCH	TAL PLS
Total/NA	Prep	7471A			140376	07/18/13 11:50	JCR	TAL PLS
Total/NA	Analysis	7471A		1	140425	07/18/13 21:52	SLK	TAL PLS
Total/NA	Prep	3050B			140337	07/17/13 19:54	ASB	TAL PLS
Total/NA	Analysis	6010B		1	140526	07/19/13 22:07	CAM	TAL PLS
Total/NA	Analysis	6010B		1	140562	07/20/13 12:11	EFH	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-50986-1

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-50986-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-50986-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7470A	Mercury (CVAA)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-50986-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-50986-1	RESIDUAL H2O CLAR	Water	07/17/13 14:00	07/17/13 16:13
720-50986-2	AOC1 CONTENTS	Solid	07/17/13 14:15	07/17/13 16:13
720-50986-3	WASTE OIL	Waste	07/17/13 13:00	07/17/13 16:13

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-50986

Reference #: 147368

Date 7/17/13 Page 1 of 1

7/22/2013

Report To

Attn: Kristin Guthrie
Company: Haley & Aldrich, Inc.
Address:
Email: kguthrie@haleyaldrich.com
Bill To: H&A
Sampled By: MW
Attn.:
Phone.:

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☒ Gas ☒ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease ☐ Petroleum ☐ Total (EPA 1664/9071)	Pesticides ☐ EPA 8081 PCBs ☒ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
Residual H2Oclar	7/17/13	1400	liquid	amber poly-from Vol-Org-Hill			X	X				X	X													5
AOC 1 contents	7/17/13	1415	solid				X	X				X	X													1
Waste Oil	7/17/13	1300	liquid	none			X	X				X	X													1

RUSH

720-50986 Chain of Custody

Project Info.

Project Name/ #: Hanson
PO#:
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 12.7°C CF/Hand

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | 2 Day | 1 Day | Other:

Report ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1520	Signature: [signature] Time: 16:13	Signature: Time:
Printed Name: Mark Wem Date: 7/17	Printed Name: David O'Connor Date: 7/17	Printed Name: Date:
Company: ETIC.	Company: H&A, Inc	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 7/17 15:20	Signature: [signature] Time: 16:13	Signature: Time:
Printed Name: David O'Connor Date:	Printed Name: T Bullock Date: 7/17/13	Printed Name: Date:
Company: H&A, Inc	Company: TA	Company:

Rev 10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-50986-1

Login Number: 50986

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51198-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
7/29/2013 3:27:04 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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QC Sample Results 7
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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51198-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51198-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51198-1

Comments
No additional comments.

Receipt
The sample was received on 7/25/2013 2:00 PM; the sample arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 4.7º C.

Metals
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51198-1

Client Sample ID: AOC1_DRUMWASTE-072513 **Lab Sample ID: 720-51198-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	1.0		0.49		mg/Kg	1		6010B	Total/NA
Chromium	0.50		0.49		mg/Kg	1		6010B	Total/NA
Copper	4.0		1.5		mg/Kg	1		6010B	Total/NA
Lead	1.3		0.49		mg/Kg	1		6010B	Total/NA
Zinc	19		1.5		mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51198-1

Client Sample ID: AOC1_DRUMWASTE-072513
Date Collected: 07/25/13 07:28
Date Received: 07/25/13 14:00

Lab Sample ID: 720-51198-1
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.49		mg/Kg		07/25/13 22:05	07/26/13 18:31	1
Arsenic	ND		0.98		mg/Kg		07/25/13 22:05	07/26/13 18:31	1
Barium	**1.0**		0.49		mg/Kg		07/25/13 22:05	07/26/13 18:31	1
Beryllium	ND		0.098		mg/Kg		07/25/13 22:05	07/26/13 18:31	1
Cadmium	ND		0.12		mg/Kg		07/25/13 22:05	07/26/13 18:31	1
Chromium	**0.50**		0.49		mg/Kg		07/25/13 22:05	07/26/13 18:31	1
Cobalt	ND		0.20		mg/Kg		07/25/13 22:05	07/26/13 18:31	1
Copper	**4.0**		1.5		mg/Kg		07/25/13 22:05	07/26/13 18:31	1
Lead	**1.3**		0.49		mg/Kg		07/25/13 22:05	07/26/13 18:31	1
Molybdenum	ND		0.49		mg/Kg		07/25/13 22:05	07/26/13 18:31	1
Nickel	ND		0.49		mg/Kg		07/25/13 22:05	07/26/13 18:31	1
Selenium	ND		0.98		mg/Kg		07/25/13 22:05	07/26/13 18:31	1
Silver	ND		0.25		mg/Kg		07/25/13 22:05	07/26/13 18:31	1
Thallium	ND		0.49		mg/Kg		07/25/13 22:05	07/26/13 18:31	1
Vanadium	ND		0.49		mg/Kg		07/25/13 22:05	07/26/13 18:31	1
Zinc	**19**		1.5		mg/Kg		07/25/13 22:05	07/26/13 18:31	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0092		mg/Kg		07/27/13 10:45	07/27/13 15:31	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-140936/1-A
Matrix: Solid
Analysis Batch: 140992

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 140936

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		07/25/13 22:05	07/26/13 14:32	1
Arsenic	ND		1.0		mg/Kg		07/25/13 22:05	07/26/13 14:32	1
Barium	ND		0.50		mg/Kg		07/25/13 22:05	07/26/13 14:32	1
Beryllium	ND		0.10		mg/Kg		07/25/13 22:05	07/26/13 14:32	1
Cadmium	ND		0.13		mg/Kg		07/25/13 22:05	07/26/13 14:32	1
Chromium	ND		0.50		mg/Kg		07/25/13 22:05	07/26/13 14:32	1
Cobalt	ND		0.20		mg/Kg		07/25/13 22:05	07/26/13 14:32	1
Copper	ND		1.5		mg/Kg		07/25/13 22:05	07/26/13 14:32	1
Lead	ND		0.50		mg/Kg		07/25/13 22:05	07/26/13 14:32	1
Molybdenum	ND		0.50		mg/Kg		07/25/13 22:05	07/26/13 14:32	1
Nickel	ND		0.50		mg/Kg		07/25/13 22:05	07/26/13 14:32	1
Selenium	ND		1.0		mg/Kg		07/25/13 22:05	07/26/13 14:32	1
Silver	ND		0.25		mg/Kg		07/25/13 22:05	07/26/13 14:32	1
Thallium	ND		0.50		mg/Kg		07/25/13 22:05	07/26/13 14:32	1
Vanadium	ND		0.50		mg/Kg		07/25/13 22:05	07/26/13 14:32	1
Zinc	ND		1.5		mg/Kg		07/25/13 22:05	07/26/13 14:32	1

Lab Sample ID: LCS 720-140936/2-A
Matrix: Solid
Analysis Batch: 140992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 140936

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	48.2		mg/Kg		96	80 - 120
Arsenic	50.0	47.6		mg/Kg		95	80 - 120
Barium	50.0	53.8		mg/Kg		108	80 - 120
Beryllium	50.0	49.7		mg/Kg		99	80 - 120
Cadmium	50.0	49.6		mg/Kg		99	80 - 120
Chromium	50.0	51.1		mg/Kg		102	80 - 120
Cobalt	50.0	51.9		mg/Kg		104	80 - 120
Copper	50.0	49.3		mg/Kg		99	80 - 120
Lead	50.0	48.9		mg/Kg		98	80 - 120
Molybdenum	50.0	48.9		mg/Kg		98	80 - 120
Nickel	50.0	50.2		mg/Kg		100	80 - 120
Selenium	50.0	46.6		mg/Kg		93	80 - 120
Silver	25.0	24.7		mg/Kg		99	80 - 120
Thallium	50.0	49.3		mg/Kg		99	80 - 120
Vanadium	50.0	49.0		mg/Kg		98	80 - 120
Zinc	50.0	47.7		mg/Kg		95	80 - 120

Lab Sample ID: LCSD 720-140936/3-A
Matrix: Solid
Analysis Batch: 140992

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 140936

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	48.1		mg/Kg		96	80 - 120	0	20
Arsenic	50.0	47.0		mg/Kg		94	80 - 120	1	20
Barium	50.0	55.3		mg/Kg		111	80 - 120	3	20
Beryllium	50.0	50.5		mg/Kg		101	80 - 120	2	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 720-140936/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 140992 — **Prep Batch: 140936**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	50.0	49.1		mg/Kg		98	80 - 120	1	20
Chromium	50.0	51.4		mg/Kg		103	80 - 120	1	20
Cobalt	50.0	51.5		mg/Kg		103	80 - 120	1	20
Copper	50.0	49.6		mg/Kg		99	80 - 120	1	20
Lead	50.0	48.5		mg/Kg		97	80 - 120	1	20
Molybdenum	50.0	48.4		mg/Kg		97	80 - 120	1	20
Nickel	50.0	49.7		mg/Kg		99	80 - 120	1	20
Selenium	50.0	46.5		mg/Kg		93	80 - 120	0	20
Silver	25.0	24.7		mg/Kg		99	80 - 120	0	20
Thallium	50.0	48.9		mg/Kg		98	80 - 120	1	20
Vanadium	50.0	49.3		mg/Kg		99	80 - 120	1	20
Zinc	50.0	47.1		mg/Kg		94	80 - 120	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-141025/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141048 — **Prep Batch: 141025**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		07/27/13 10:45	07/27/13 15:09	1

Lab Sample ID: LCS 720-141025/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141048 — **Prep Batch: 141025**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.867		mg/Kg		104	80 - 120

Lab Sample ID: LCSD 720-141025/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 141048 — **Prep Batch: 141025**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.833	0.867		mg/Kg		104	80 - 120	0	20

Metals

Prep Batch: 140936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51198-1	AOC1_DRUMWASTE-072513	Total/NA	Solid	3050B	
LCS 720-140936/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-140936/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-140936/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 140992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-140936/2-A	Lab Control Sample	Total/NA	Solid	6010B	140936
LCSD 720-140936/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	140936
MB 720-140936/1-A	Method Blank	Total/NA	Solid	6010B	140936

Analysis Batch: 141002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51198-1	AOC1_DRUMWASTE-072513	Total/NA	Solid	6010B	140936

Prep Batch: 141025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51198-1	AOC1_DRUMWASTE-072513	Total/NA	Solid	7471A	
LCS 720-141025/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-141025/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-141025/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 141048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51198-1	AOC1_DRUMWASTE-072513	Total/NA	Solid	7471A	141025
LCS 720-141025/2-A	Lab Control Sample	Total/NA	Solid	7471A	141025
LCSD 720-141025/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	141025
MB 720-141025/1-A	Method Blank	Total/NA	Solid	7471A	141025

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51198-1

Client Sample ID: AOC1_DRUMWASTE-072513 **Lab Sample ID: 720-51198-1**
Date Collected: 07/25/13 07:28 **Matrix: Solid**
Date Received: 07/25/13 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			140936	07/25/13 22:05	JCR	TAL PLS
Total/NA	Analysis	6010B		1	141002	07/26/13 18:31	SLK	TAL PLS
Total/NA	Prep	7471A			141025	07/27/13 10:45	CTD	TAL PLS
Total/NA	Analysis	7471A		1	141048	07/27/13 15:31	EFH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51198-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51198-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51198-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51198-1	AOC1_DRUMWASTE-072513	Solid	07/25/13 07:28	07/25/13 14:00

HALEY & ALDRICH

Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1402

720-51198

CHAIN OF CUSTODY RECORD

147480

Phone (617) 886-7400
Fax (617) 886-7600

Page 1 of 1

H&A FILE NO.	39792	LABORATORY	Test America
PROJECT NAME	Former Hanson Aggregate	ADDRESS	1220 Quarry Lane
H&A CONTACT	JSebik	CONTACT	Dimple Sharma
		DELIVERY DATE	
		TURNAROUND TIME	72hr
		PROJECT MANAGER	KGUTHRIE

Sample No.	Date	Time	Depth	Type	Analysis Requested: VOA	ABNs PAH only	MCP Metals	Pesticides PCBs	VPH Full Suite C-ranges only	EPH Full Suite C-ranges only	TPH (specify)	TCLP (specify)	Reactivity Ignitability Corrosivity	CAM 17			Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
~~AOC1-DRUMWASTE-07~~	~~7/25/13~~	~~0728~~	=	chalk										X			1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
AOC1_DRUMWASTE-072513	7/25/13	0728	-	chalk										X			1	

RUSH

Sampled and Relinquished by	Received by
Sign Josephine Kimura	Sign Justin Gorore
Print Josephine Kimura	Print Justin Gorore
Firm Haley & Aldrich	Firm TAP
Date 7/25/13 Time 1400	Date 7/25/13 Time 1400
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

720-51198 Chain of Custody

	VOA Vial	Amber Glass	Plastic Bottle	Preservative	Volume
SOLID					
	VOA Vial	Amber Glass	Clear Glass	Preservative	Volume
			X	A	8oz

PRESERVATION KEY

A	Sample chilled	C	NaOH	E	H_2SO_4	G	Methanol
B	Sample filtered	D	HNO_3	F	HCL	H	Water/NaHSO4 (circle)

Sampling Comments

4.7°C

Evidence samples were tampered with? YES NO

If YES, please explain in section below.

IS 1 of 98

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate. Laboratory should (specify if applicable) _____ analyz

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD - Haley & Aldrich Contact

Form 3003

APRIL 2004

7/29/2013

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51198-1

Login Number: 51198

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



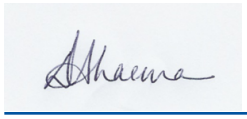
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51375-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie



Authorized for release by:
8/12/2013 5:23:52 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51375-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51375-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51375-1

Comments
No additional comments.

Receipt
The samples were received on 8/1/2013 1:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 5.7º C.

GC Semi VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51375-1

Client Sample ID: TS-SPOILS-COMP-A — Lab Sample ID: 720-51375-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	22		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Arsenic	3.8		3.8		mg/Kg	4		6010B	Total/NA
Barium	110		1.9		mg/Kg	4		6010B	Total/NA
Chromium	52		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	9.9		0.75		mg/Kg	4		6010B	Total/NA
Copper	28		5.7		mg/Kg	4		6010B	Total/NA
Lead	6.3		1.9		mg/Kg	4		6010B	Total/NA
Nickel	67		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	31		1.9		mg/Kg	4		6010B	Total/NA
Zinc	51		5.7		mg/Kg	4		6010B	Total/NA
Mercury	0.047		0.0083		mg/Kg	1		7471A	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	8.13		0.100		SU	1		9045C	Soluble

Client Sample ID: TS-SPOILS-COMP-B — Lab Sample ID: 720-51375-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	19		0.98		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	59		49		mg/Kg	1		8015B	Silica Gel Cleanup
Arsenic	5.2		3.8		mg/Kg	4		6010B	Total/NA
Barium	130		1.9		mg/Kg	4		6010B	Total/NA
Chromium	42		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	9.3		0.76		mg/Kg	4		6010B	Total/NA
Copper	29		5.7		mg/Kg	4		6010B	Total/NA
Lead	15		1.9		mg/Kg	4		6010B	Total/NA
Nickel	59		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	35		1.9		mg/Kg	4		6010B	Total/NA
Zinc	94		5.7		mg/Kg	4		6010B	Total/NA
Mercury	0.073		0.0085		mg/Kg	1		7471A	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	8.36		0.100		SU	1		9045C	Soluble

Client Sample ID: TS-SPOILS-COMP-C — Lab Sample ID: 720-51375-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	11		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Arsenic	4.0		3.9		mg/Kg	4		6010B	Total/NA
Barium	120		2.0		mg/Kg	4		6010B	Total/NA
Chromium	41		2.0		mg/Kg	4		6010B	Total/NA
Cobalt	10		0.78		mg/Kg	4		6010B	Total/NA
Copper	27		5.9		mg/Kg	4		6010B	Total/NA
Lead	9.5		2.0		mg/Kg	4		6010B	Total/NA
Nickel	54		2.0		mg/Kg	4		6010B	Total/NA
Vanadium	34		2.0		mg/Kg	4		6010B	Total/NA
Zinc	72		5.9		mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.0094		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51375-1

Client Sample ID: TS-SPOILS-COMP-C (Continued)

Lab Sample ID: 720-51375-15

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	8.54		0.100		SU	1		9045C	Soluble

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51375-1

Client Sample ID: TS-SPOILS-COMP-A
Date Collected: 08/01/13 09:40
Date Received: 08/01/13 13:25

Lab Sample ID: 720-51375-5
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**22**		1.0		mg/Kg		08/10/13 11:21	08/11/13 18:59	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/10/13 11:21	08/11/13 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/10/13 11:21*	*08/11/13 18:59*	*1*
p-Terphenyl	*82*		*38 - 148*	*08/10/13 11:21*	*08/11/13 18:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		08/07/13 19:14	08/08/13 10:19	4
Arsenic	**3.8**		3.8		mg/Kg		08/07/13 19:14	08/08/13 10:19	4
Barium	**110**		1.9		mg/Kg		08/07/13 19:14	08/08/13 10:19	4
Beryllium	ND		0.38		mg/Kg		08/07/13 19:14	08/08/13 10:19	4
Cadmium	ND		0.47		mg/Kg		08/07/13 19:14	08/08/13 10:19	4
Chromium	**52**		1.9		mg/Kg		08/07/13 19:14	08/08/13 10:19	4
Cobalt	**9.9**		0.75		mg/Kg		08/07/13 19:14	08/08/13 10:19	4
Copper	**28**		5.7		mg/Kg		08/07/13 19:14	08/08/13 10:19	4
Lead	**6.3**		1.9		mg/Kg		08/07/13 19:14	08/08/13 10:19	4
Molybdenum	ND		1.9		mg/Kg		08/07/13 19:14	08/08/13 10:19	4
Nickel	**67**		1.9		mg/Kg		08/07/13 19:14	08/08/13 10:19	4
Selenium	ND		3.8		mg/Kg		08/07/13 19:14	08/08/13 10:19	4
Silver	ND		0.94		mg/Kg		08/07/13 19:14	08/08/13 10:19	4
Thallium	ND		1.9		mg/Kg		08/07/13 19:14	08/08/13 10:19	4
Vanadium	**31**		1.9		mg/Kg		08/07/13 19:14	08/08/13 10:19	4
Zinc	**51**		5.7		mg/Kg		08/07/13 19:14	08/08/13 10:19	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.047**		0.0083		mg/Kg		08/07/13 19:48	08/08/13 10:08	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.13**		0.100		SU			08/08/13 16:36	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51375-1

Client Sample ID: TS-SPOILS-COMP-B
Date Collected: 08/01/13 10:50
Date Received: 08/01/13 13:25

Lab Sample ID: 720-51375-10
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	19		0.98		mg/Kg		08/10/13 11:21	08/11/13 19:28	1
Motor Oil Range Organics [C24-C36]	59		49		mg/Kg		08/10/13 11:21	08/11/13 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.4*		*0 - 1*	*08/10/13 11:21*	*08/11/13 19:28*	*1*
p-Terphenyl	*106*		*38 - 148*	*08/10/13 11:21*	*08/11/13 19:28*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		08/07/13 19:14	08/08/13 10:32	4
Arsenic	5.2		3.8		mg/Kg		08/07/13 19:14	08/08/13 10:32	4
Barium	130		1.9		mg/Kg		08/07/13 19:14	08/08/13 10:32	4
Beryllium	ND		0.38		mg/Kg		08/07/13 19:14	08/08/13 10:32	4
Cadmium	ND		0.48		mg/Kg		08/07/13 19:14	08/08/13 10:32	4
Chromium	42		1.9		mg/Kg		08/07/13 19:14	08/08/13 10:32	4
Cobalt	9.3		0.76		mg/Kg		08/07/13 19:14	08/08/13 10:32	4
Copper	29		5.7		mg/Kg		08/07/13 19:14	08/08/13 10:32	4
Lead	15		1.9		mg/Kg		08/07/13 19:14	08/08/13 10:32	4
Molybdenum	ND		1.9		mg/Kg		08/07/13 19:14	08/08/13 10:32	4
Nickel	59		1.9		mg/Kg		08/07/13 19:14	08/08/13 10:32	4
Selenium	ND		3.8		mg/Kg		08/07/13 19:14	08/08/13 10:32	4
Silver	ND		0.95		mg/Kg		08/07/13 19:14	08/08/13 10:32	4
Thallium	ND		1.9		mg/Kg		08/07/13 19:14	08/08/13 10:32	4
Vanadium	35		1.9		mg/Kg		08/07/13 19:14	08/08/13 10:32	4
Zinc	94		5.7		mg/Kg		08/07/13 19:14	08/08/13 10:32	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.073		0.0085		mg/Kg		08/07/13 19:48	08/08/13 10:10	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.36		0.100		SU			08/08/13 16:39	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51375-1

Client Sample ID: TS-SPOILS-COMP-C
Date Collected: 08/01/13 11:35
Date Received: 08/01/13 13:25

Lab Sample ID: 720-51375-15
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**11**		1.0		mg/Kg		08/10/13 11:21	08/11/13 19:57	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/10/13 11:21	08/11/13 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/10/13 11:21*	*08/11/13 19:57*	*1*
p-Terphenyl	*103*		*38 - 148*	*08/10/13 11:21*	*08/11/13 19:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		mg/Kg		08/07/13 19:14	08/08/13 10:36	4
Arsenic	**4.0**		3.9		mg/Kg		08/07/13 19:14	08/08/13 10:36	4
Barium	**120**		2.0		mg/Kg		08/07/13 19:14	08/08/13 10:36	4
Beryllium	ND		0.39		mg/Kg		08/07/13 19:14	08/08/13 10:36	4
Cadmium	ND		0.49		mg/Kg		08/07/13 19:14	08/08/13 10:36	4
Chromium	**41**		2.0		mg/Kg		08/07/13 19:14	08/08/13 10:36	4
Cobalt	**10**		0.78		mg/Kg		08/07/13 19:14	08/08/13 10:36	4
Copper	**27**		5.9		mg/Kg		08/07/13 19:14	08/08/13 10:36	4
Lead	**9.5**		2.0		mg/Kg		08/07/13 19:14	08/08/13 10:36	4
Molybdenum	ND		2.0		mg/Kg		08/07/13 19:14	08/08/13 10:36	4
Nickel	**54**		2.0		mg/Kg		08/07/13 19:14	08/08/13 10:36	4
Selenium	ND		3.9		mg/Kg		08/07/13 19:14	08/08/13 10:36	4
Silver	ND		0.98		mg/Kg		08/07/13 19:14	08/08/13 10:36	4
Thallium	ND		2.0		mg/Kg		08/07/13 19:14	08/08/13 10:36	4
Vanadium	**34**		2.0		mg/Kg		08/07/13 19:14	08/08/13 10:36	4
Zinc	**72**		5.9		mg/Kg		08/07/13 19:14	08/08/13 10:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.0094		mg/Kg		08/07/13 19:48	08/08/13 10:12	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.54**		0.100		SU			08/08/13 16:40	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-141977/1-A
Matrix: Solid
Analysis Batch: 141993

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 141977

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98		mg/Kg		08/10/13 11:21	08/11/13 16:32	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/10/13 11:21	08/11/13 16:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/10/13 11:21*	*08/11/13 16:32*	*1*
p-Terphenyl	*92*		*38 - 148*	*08/10/13 11:21*	*08/11/13 16:32*	*1*

Lab Sample ID: LCS 720-141977/2-A
Matrix: Solid
Analysis Batch: 141993

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 141977

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.9	68.4		mg/Kg		83	36 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*108*		*38 - 148*

Lab Sample ID: LCSD 720-141977/3-A
Matrix: Solid
Analysis Batch: 141993

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 141977

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	82.9	71.7		mg/Kg		87	36 - 112	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*111*		*38 - 148*

Lab Sample ID: 720-51375-5 MS
Matrix: Solid
Analysis Batch: 141993

Client Sample ID: TS-SPOILS-COMP-A
Prep Type: Silica Gel Cleanup
Prep Batch: 141977

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	22		82.8	102		mg/Kg		97	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*91*		*38 - 148*

Lab Sample ID: 720-51375-5 MSD
Matrix: Solid
Analysis Batch: 141993

Client Sample ID: TS-SPOILS-COMP-A
Prep Type: Silica Gel Cleanup
Prep Batch: 141977

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	22		82.6	82.2		mg/Kg		73	50 - 150	22	30

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 720-51375-5 MSD
Matrix: Solid
Analysis Batch: 141993

Client Sample ID: TS-SPOILS-COMP-A
Prep Type: Silica Gel Cleanup
Prep Batch: 141977

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*92*		*38 - 148*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-141777/1-A
Matrix: Solid
Analysis Batch: 141829

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 141777

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		08/07/13 19:14	08/08/13 09:39	1
Arsenic	ND		1.0		mg/Kg		08/07/13 19:14	08/08/13 09:39	1
Barium	ND		0.50		mg/Kg		08/07/13 19:14	08/08/13 09:39	1
Beryllium	ND		0.10		mg/Kg		08/07/13 19:14	08/08/13 09:39	1
Cadmium	ND		0.13		mg/Kg		08/07/13 19:14	08/08/13 09:39	1
Chromium	ND		0.50		mg/Kg		08/07/13 19:14	08/08/13 09:39	1
Cobalt	ND		0.20		mg/Kg		08/07/13 19:14	08/08/13 09:39	1
Copper	ND		1.5		mg/Kg		08/07/13 19:14	08/08/13 09:39	1
Lead	ND		0.50		mg/Kg		08/07/13 19:14	08/08/13 09:39	1
Molybdenum	ND		0.50		mg/Kg		08/07/13 19:14	08/08/13 09:39	1
Nickel	ND		0.50		mg/Kg		08/07/13 19:14	08/08/13 09:39	1
Selenium	ND		1.0		mg/Kg		08/07/13 19:14	08/08/13 09:39	1
Silver	ND		0.25		mg/Kg		08/07/13 19:14	08/08/13 09:39	1
Thallium	ND		0.50		mg/Kg		08/07/13 19:14	08/08/13 09:39	1
Vanadium	ND		0.50		mg/Kg		08/07/13 19:14	08/08/13 09:39	1
Zinc	ND		1.5		mg/Kg		08/07/13 19:14	08/08/13 09:39	1

Lab Sample ID: LCS 720-141777/2-A
Matrix: Solid
Analysis Batch: 141829

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141777

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.6		mg/Kg		95	80 - 120
Arsenic	50.0	48.0		mg/Kg		96	80 - 120
Barium	50.0	49.2		mg/Kg		98	80 - 120
Beryllium	50.0	50.1		mg/Kg		100	80 - 120
Cadmium	50.0	49.3		mg/Kg		99	80 - 120
Chromium	50.0	50.6		mg/Kg		101	80 - 120
Cobalt	50.0	50.5		mg/Kg		101	80 - 120
Copper	50.0	49.8		mg/Kg		100	80 - 120
Lead	50.0	49.7		mg/Kg		99	80 - 120
Molybdenum	50.0	49.8		mg/Kg		100	80 - 120
Nickel	50.0	50.1		mg/Kg		100	80 - 120
Selenium	50.0	47.2		mg/Kg		94	80 - 120
Silver	25.0	24.2		mg/Kg		97	80 - 120
Thallium	50.0	50.3		mg/Kg		101	80 - 120
Vanadium	50.0	49.7		mg/Kg		99	80 - 120
Zinc	50.0	48.8		mg/Kg		98	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 720-141777/3-A
Matrix: Solid
Analysis Batch: 141829

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 141777

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	47.2		mg/Kg		94	80 - 120	1	20
Arsenic	50.0	47.7		mg/Kg		95	80 - 120	1	20
Barium	50.0	48.6		mg/Kg		97	80 - 120	1	20
Beryllium	50.0	49.5		mg/Kg		99	80 - 120	1	20
Cadmium	50.0	48.4		mg/Kg		97	80 - 120	2	20
Chromium	50.0	49.3		mg/Kg		99	80 - 120	3	20
Cobalt	50.0	49.5		mg/Kg		99	80 - 120	2	20
Copper	50.0	49.0		mg/Kg		98	80 - 120	2	20
Lead	50.0	49.1		mg/Kg		98	80 - 120	1	20
Molybdenum	50.0	49.3		mg/Kg		99	80 - 120	1	20
Nickel	50.0	49.4		mg/Kg		99	80 - 120	2	20
Selenium	50.0	46.8		mg/Kg		94	80 - 120	1	20
Silver	25.0	23.7		mg/Kg		95	80 - 120	2	20
Thallium	50.0	49.6		mg/Kg		99	80 - 120	1	20
Vanadium	50.0	48.9		mg/Kg		98	80 - 120	2	20
Zinc	50.0	48.3		mg/Kg		97	80 - 120	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-141782/1-A
Matrix: Solid
Analysis Batch: 141822

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 141782

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		08/07/13 19:48	08/08/13 09:53	1

Lab Sample ID: LCS 720-141782/2-A
Matrix: Solid
Analysis Batch: 141822

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 141782

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.867		mg/Kg		104	80 - 120

Lab Sample ID: LCSD 720-141782/3-A
Matrix: Solid
Analysis Batch: 141822

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 141782

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.833	0.875		mg/Kg		105	80 - 120	1	20

Method: 9045C - pH

Lab Sample ID: LCS 720-141851/1
Matrix: Solid
Analysis Batch: 141851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.060		SU		101	99 - 101

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51375-1

Method: 9045C - pH (Continued)

Lab Sample ID: 720-51375-5 DU
Matrix: Solid
Analysis Batch: 141851

Client Sample ID: TS-SPOILS-COMP-A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	8.13			8.190		SU				0.7	20

GC Semi VOA

Prep Batch: 141977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51375-5	TS-SPOILS-COMP-A	Silica Gel Cleanup	Solid	3546	
720-51375-5 MS	TS-SPOILS-COMP-A	Silica Gel Cleanup	Solid	3546	
720-51375-5 MSD	TS-SPOILS-COMP-A	Silica Gel Cleanup	Solid	3546	
720-51375-10	TS-SPOILS-COMP-B	Silica Gel Cleanup	Solid	3546	
720-51375-15	TS-SPOILS-COMP-C	Silica Gel Cleanup	Solid	3546	
LCS 720-141977/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-141977/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-141977/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 141993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51375-5	TS-SPOILS-COMP-A	Silica Gel Cleanup	Solid	8015B	141977
720-51375-5 MS	TS-SPOILS-COMP-A	Silica Gel Cleanup	Solid	8015B	141977
720-51375-5 MSD	TS-SPOILS-COMP-A	Silica Gel Cleanup	Solid	8015B	141977
720-51375-10	TS-SPOILS-COMP-B	Silica Gel Cleanup	Solid	8015B	141977
720-51375-15	TS-SPOILS-COMP-C	Silica Gel Cleanup	Solid	8015B	141977
LCS 720-141977/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	141977
LCSD 720-141977/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	141977
MB 720-141977/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	141977

Metals

Prep Batch: 141777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51375-5	TS-SPOILS-COMP-A	Total/NA	Solid	3050B	
720-51375-10	TS-SPOILS-COMP-B	Total/NA	Solid	3050B	
720-51375-15	TS-SPOILS-COMP-C	Total/NA	Solid	3050B	
LCS 720-141777/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-141777/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-141777/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 141782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51375-5	TS-SPOILS-COMP-A	Total/NA	Solid	7471A	
720-51375-10	TS-SPOILS-COMP-B	Total/NA	Solid	7471A	
720-51375-15	TS-SPOILS-COMP-C	Total/NA	Solid	7471A	
LCS 720-141782/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-141782/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-141782/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 141822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51375-5	TS-SPOILS-COMP-A	Total/NA	Solid	7471A	141782
720-51375-10	TS-SPOILS-COMP-B	Total/NA	Solid	7471A	141782
720-51375-15	TS-SPOILS-COMP-C	Total/NA	Solid	7471A	141782
LCS 720-141782/2-A	Lab Control Sample	Total/NA	Solid	7471A	141782
LCSD 720-141782/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	141782
MB 720-141782/1-A	Method Blank	Total/NA	Solid	7471A	141782

Metals (Continued)

Analysis Batch: 141829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51375-5	TS-SPOILS-COMP-A	Total/NA	Solid	6010B	141777
720-51375-10	TS-SPOILS-COMP-B	Total/NA	Solid	6010B	141777
720-51375-15	TS-SPOILS-COMP-C	Total/NA	Solid	6010B	141777
LCS 720-141777/2-A	Lab Control Sample	Total/NA	Solid	6010B	141777
LCSD 720-141777/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	141777
MB 720-141777/1-A	Method Blank	Total/NA	Solid	6010B	141777

General Chemistry

Leach Batch: 141815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51375-5	TS-SPOILS-COMP-A	Soluble	Solid	DI Leach	
720-51375-5 DU	TS-SPOILS-COMP-A	Soluble	Solid	DI Leach	
720-51375-10	TS-SPOILS-COMP-B	Soluble	Solid	DI Leach	
720-51375-15	TS-SPOILS-COMP-C	Soluble	Solid	DI Leach	

Analysis Batch: 141851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51375-5	TS-SPOILS-COMP-A	Soluble	Solid	9045C	141815
720-51375-5 DU	TS-SPOILS-COMP-A	Soluble	Solid	9045C	141815
720-51375-10	TS-SPOILS-COMP-B	Soluble	Solid	9045C	141815
720-51375-15	TS-SPOILS-COMP-C	Soluble	Solid	9045C	141815
LCS 720-141851/1	Lab Control Sample	Total/NA	Solid	9045C	

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51375-1

Client Sample ID: TS-SPOILS-COMP-A

Lab Sample ID: 720-51375-5

Date Collected: 08/01/13 09:40

Matrix: Solid

Date Received: 08/01/13 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141977	08/10/13 11:21	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141993	08/11/13 18:59	DCH	TAL PLS
Total/NA	Prep	7471A			141782	08/07/13 19:48	ASB	TAL PLS
Total/NA	Analysis	7471A		1	141822	08/08/13 10:08	EFH	TAL PLS
Total/NA	Prep	3050B			141777	08/07/13 19:14	CTD	TAL PLS
Total/NA	Analysis	6010B		4	141829	08/08/13 10:19	EFH	TAL PLS
Soluble	Leach	DI Leach			141815	08/08/13 10:09	MJK	TAL PLS
Soluble	Analysis	9045C		1	141851	08/08/13 16:36	MJK	TAL PLS

Client Sample ID: TS-SPOILS-COMP-B

Lab Sample ID: 720-51375-10

Date Collected: 08/01/13 10:50

Matrix: Solid

Date Received: 08/01/13 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141977	08/10/13 11:21	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141993	08/11/13 19:28	DCH	TAL PLS
Total/NA	Prep	7471A			141782	08/07/13 19:48	ASB	TAL PLS
Total/NA	Analysis	7471A		1	141822	08/08/13 10:10	EFH	TAL PLS
Total/NA	Prep	3050B			141777	08/07/13 19:14	CTD	TAL PLS
Total/NA	Analysis	6010B		4	141829	08/08/13 10:32	EFH	TAL PLS
Soluble	Leach	DI Leach			141815	08/08/13 10:09	MJK	TAL PLS
Soluble	Analysis	9045C		1	141851	08/08/13 16:39	MJK	TAL PLS

Client Sample ID: TS-SPOILS-COMP-C

Lab Sample ID: 720-51375-15

Date Collected: 08/01/13 11:35

Matrix: Solid

Date Received: 08/01/13 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			141977	08/10/13 11:21	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	141993	08/11/13 19:57	DCH	TAL PLS
Total/NA	Prep	7471A			141782	08/07/13 19:48	ASB	TAL PLS
Total/NA	Analysis	7471A		1	141822	08/08/13 10:12	EFH	TAL PLS
Total/NA	Prep	3050B			141777	08/07/13 19:14	CTD	TAL PLS
Total/NA	Analysis	6010B		4	141829	08/08/13 10:36	EFH	TAL PLS
Soluble	Leach	DI Leach			141815	08/08/13 10:09	MJK	TAL PLS
Soluble	Analysis	9045C		1	141851	08/08/13 16:40	MJK	TAL PLS

Laboratory References:

= Asbestos TEM Laboratories, Inc., 630 BANCROFT WAY, Berkeley, CA 94710

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51375-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51375-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
9045C	pH	SW846	TAL PLS
Asbestos CARB 435	General Sub Contract Method	NONE	

Protocol References:

NONE = NONE

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= Asbestos TEM Laboratories, Inc., 630 BANCROFT WAY, Berkeley, CA 94710

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51375-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51375-5	TS-SPOILS-COMP-A	Solid	08/01/13 09:40	08/01/13 13:25
720-51375-10	TS-SPOILS-COMP-B	Solid	08/01/13 10:50	08/01/13 13:25
720-51375-15	TS-SPOILS-COMP-C	Solid	08/01/13 11:35	08/01/13 13:25

147639

HALL & ALDRICH

Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1402

720-51375

CHAIN OF CUSTODY RECORD

Phone (617) 886-7400
Fax (617) 886-7600

Page 1 of 2

H&A FILE NO.	139792	LABORATORY	TestAmerica
PROJECT NAME	Former Hanson Aggregate Facility	ADDRESS	1220 Quarry Lane, Pleasanton, CA
H&A CONTACT	Joana Sebik	CONTACT	Dimple Sharma
DELIVERY DATE	8/1/2013 (Thu)		
TURNAROUND TIME	Std. (5-Day)		
PROJECT MANAGER	Dimple Sharma		

Sample No.	Date	Time	Depth	Type	Number of Containers
TS-Spoils-A-1	8/1/13	0940	0-.5'	soil	1
TS-Spoils-A-2	8/1/13	0950	0-.5'	soil	1
TS-Spoils-A-3	8/1/13	0955	0-.5'	soil	1
TS-Spoils-A-4	8/1/13	1005	0-.5'	soil	1
⊗ TS-Spoils-Comp-A					
TS-Spoils-B-1	8/1/13	1050	0-.5'	soil	1
TS-Spoils-B-2	8/1/13	1100	0-.5'	soil	1
TS-Spoils-B-3	8/1/13	1105	0-.5'	soil	1
TS-Spoils-B-4	8/1/13	1120	0-.5'	soil	1
⊗⊗ TS-Spoils-Comp-B					

Analysis Requested

Sample No.	VOA	ABNs PAH only	MCP Metals	Pesticides PCBs	VPH Full Suite C-ranges only	EPH Full Suite C-ranges only	TPH (gas)	TPH (diesel)	TCLP (specify)	Reactivity Ignitability Corrosivity	(Gold) CH	Asbestos	CAM 17 Metals	CAM 17 Metals
TS-Spoils-Comp-A							X				X	X	X	
TS-Spoils-Comp-B							X				X	X	X	

Comments (special instructions, precautions, additional method numbers, etc.)

Laboratory to use applicable DEP CAM methods, unless otherwise directed.

⊗ Please composite discrete samples A-1 through A-4, label & analyze composite sample as indicated.

⊗⊗ Please composite discrete samples B-1 through B-4, label & analyze composite sample as indicated.

Sampled and Relinquished by	Received by
Sign	Sign
Print Brendan J. Mulholland	Print
Firm H&A (Albion)	Firm TestAmerica
Date 8/1/2013 Time 1325	Date 8-1-13 Time 325

Relinquished by	Received by
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

Relinquished by	Received by
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID															
VOA Vial															
Amber Gl															
Plastic Bo															
Preservati															
Volume															

SOLID															
VOA Vial															
Amber Glass															
Clear Glass											X	X	X	X	
Preservative											A	A	A	A	
Volume											90z	90z	90z	90z	

Sampling Comments

720-51375 Chain of Custody

Evidence samples were tampered with? YES NO

If YES, please explain in section below.

5.7°

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Water/NaHSO4 (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate. Laboratory should (specify if applicable) _____ analyz

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD - Haley & Aldrich Contact

Form 3003

APRIL 2004

8/12/2013

HALEY & ALDRICH
Haley & Aldrich, Inc.
465 Medford St.,
Suite 2200,
Boston, MA 02129-1402
Phon (617) 886-7400
Fax (617) 886-7600

720-51375

CHAIN OF CUSTODY RECORD

147639

Page 2 of 2

H&A FILE NO.	A 39792	LABORATORY	Test America
PROJECT NAME	Former Hanson Aggregate Facility	ADDRESS	1220 Quarry Lane, Pleasanton CA
H&A CONTACT	Joana Sebik	CONTACT	Dimple Sharma
		DELIVERY DATE	8/1/2013 (Th)
		TURNAROUND TIME	Std (5-Day)
		PROJECT MANAGER	Dimple Sharma

Sample No.	Date	Time	Depth	Type	Analysis Requested: VOA	ABNs/PAH only	MCP Metals	Pesticides/PCBs	VPH Full Suite C-ranges only	EPH Full Suite C-ranges only	TPH (Gasoline) with BTEX & MTBE	TCLP (specify)	Reactivity Ignitability Corrosivity	(9040) pH	Asbestos (CARB435 CAM 17 Metals)	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
TS-Spoils-C-1	8/1/13	1135	0-.5'	soil												1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
TS-Spoils-C-2	8/1/13	1140	0-.5'	soil												1	⊗⊗⊗ Please composite discrete samples C-1 through C-4, label & analyze composite sample as indicated.
TS-Spoils-C-3	8/1/13	1145	0-.5'	soil												1	
TS-Spoils-C-4	8/1/13	1150	0-.5'	soil												1	
⊗⊗⊗ TS-Spoils-Comp-C											X			X	XX		

Sampled and Relinquished by	Received by
Sign	Sign
Print Brendan J. Mulholland	Print Mullen
Firm H&A (Aldrich)	Firm Test Amer
Date 8/1/13 Time 1325	Date 8-1-13 Time 1325
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

	LIQUID	SOLID
VOA Vial		
Amber Glass		
Plastic Bottle		
Clear Glass		X X X X
Preservative		A A A A
Volume		902. 902. 902. 902.

Sampling Comments

Evidence samples were tampered with? YES NO

If YES, please explain in section below.

5-7°

PRESERVATION KEY

A	Sample chilled	C	NaOH	E	H_2SO_4	G	Methanol
B	Sample filtered	D	HNO_3	F	HCL	H	Water/NaHSO4 (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as *Drinking Water Samples*

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as *appropriate Laboratory should (specify if applicable)* _____ analyz

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

WHITE - Laboratory CANARY - Project Manager PINK - Haley & Aldrich Laboratory GOLDENROD - Haley & Aldrich Contact

Form 3003 APRIL 2004

8/12/2013

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Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51375-1

Login Number: 51375

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



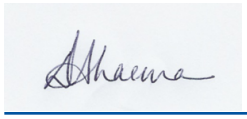
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51729-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie



Authorized for release by:
8/20/2013 5:07:40 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51729-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51729-1

Comments
No additional comments.

Receipt
The samples were received on 8/19/2013 11:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 33.0º C.

GC/MS VOA
No analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: CS-SPOILS (720-51729-15), (720-51729-10 MS), (720-51729-10 MSD), EX4-SPOILS (720-51729-10)

Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: EX3/4-SPOILS (720-51729-20).

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-1

Client Sample ID: EX5-SPOILS — Lab Sample ID: 720-51729-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	65		0.99		mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	150		50		mg/Kg	1		8015B	Total/NA
Barium	160		1.9		mg/Kg	4		6010B	Total/NA
Chromium	36		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	8.7		0.76		mg/Kg	4		6010B	Total/NA
Copper	29		5.7		mg/Kg	4		6010B	Total/NA
Lead	8.6		1.9		mg/Kg	4		6010B	Total/NA
Nickel	50		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	32		1.9		mg/Kg	4		6010B	Total/NA
Zinc	44		5.7		mg/Kg	4		6010B	Total/NA
Mercury	0.089		0.0094		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX4-SPOILS — Lab Sample ID: 720-51729-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	160		5.0		mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	580		250		mg/Kg	5		8015B	Total/NA
Arsenic	4.1		3.9		mg/Kg	4		6010B	Total/NA
Barium	140		2.0		mg/Kg	4		6010B	Total/NA
Chromium	51		2.0		mg/Kg	4		6010B	Total/NA
Cobalt	9.6		0.78		mg/Kg	4		6010B	Total/NA
Copper	30		5.9		mg/Kg	4		6010B	Total/NA
Lead	19		2.0		mg/Kg	4		6010B	Total/NA
Nickel	65		2.0		mg/Kg	4		6010B	Total/NA
Vanadium	32		2.0		mg/Kg	4		6010B	Total/NA
Zinc	51		5.9		mg/Kg	4		6010B	Total/NA
Mercury	0.077		0.0085		mg/Kg	1		7471A	Total/NA

Client Sample ID: CS-SPOILS — Lab Sample ID: 720-51729-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	260		9.9		mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1900		500		mg/Kg	10		8015B	Total/NA
Arsenic	5.0		3.8		mg/Kg	4		6010B	Total/NA
Barium	190		1.9		mg/Kg	4		6010B	Total/NA
Chromium	60		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	12		0.77		mg/Kg	4		6010B	Total/NA
Copper	34		5.8		mg/Kg	4		6010B	Total/NA
Lead	9.9		1.9		mg/Kg	4		6010B	Total/NA
Nickel	76		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	36		1.9		mg/Kg	4		6010B	Total/NA
Zinc	62		5.8		mg/Kg	4		6010B	Total/NA
Mercury	0.057		0.0090		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX3/4-SPOILS — Lab Sample ID: 720-51729-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	650		10		mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1200		500		mg/Kg	10		8015B	Total/NA
Arsenic	4.0		3.9		mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-1

Client Sample ID: EX3/4-SPOILS (Continued)

Lab Sample ID: 720-51729-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	160		2.0		mg/Kg	4		6010B	Total/NA
Chromium	50		2.0		mg/Kg	4		6010B	Total/NA
Cobalt	9.2		0.78		mg/Kg	4		6010B	Total/NA
Copper	38		5.9		mg/Kg	4		6010B	Total/NA
Lead	6.9		2.0		mg/Kg	4		6010B	Total/NA
Nickel	62		2.0		mg/Kg	4		6010B	Total/NA
Vanadium	31		2.0		mg/Kg	4		6010B	Total/NA
Zinc	40		5.9		mg/Kg	4		6010B	Total/NA
Mercury	0.031		0.0083		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-1

Client Sample ID: EX5-SPOILS — **Lab Sample ID: 720-51729-5**
Date Collected: 08/19/13 10:00 — **Matrix: Solid**
Date Received: 08/19/13 11:50

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/19/13 18:46	08/19/13 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*79*		*45 - 131*	*08/19/13 18:46*	*08/19/13 21:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*	*08/19/13 18:46*	*08/19/13 21:42*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*08/19/13 18:46*	*08/19/13 21:42*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**65**		0.99		mg/Kg		08/19/13 16:15	08/20/13 01:36	1
Motor Oil Range Organics [C24-C36]	**150**		50		mg/Kg		08/19/13 16:15	08/20/13 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*97*		*40 - 130*	*08/19/13 16:15*	*08/20/13 01:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:20	4
Arsenic	ND		3.8		mg/Kg		08/19/13 23:02	08/20/13 15:20	4
Barium	**160**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:20	4
Beryllium	ND		0.38		mg/Kg		08/19/13 23:02	08/20/13 15:20	4
Cadmium	ND		0.48		mg/Kg		08/19/13 23:02	08/20/13 15:20	4
Chromium	**36**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:20	4
Cobalt	**8.7**		0.76		mg/Kg		08/19/13 23:02	08/20/13 15:20	4
Copper	**29**		5.7		mg/Kg		08/19/13 23:02	08/20/13 15:20	4
Lead	**8.6**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:20	4
Molybdenum	ND		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:20	4
Nickel	**50**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:20	4
Selenium	ND		3.8		mg/Kg		08/19/13 23:02	08/20/13 15:20	4
Silver	ND		0.95		mg/Kg		08/19/13 23:02	08/20/13 15:20	4
Thallium	ND		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:20	4
Vanadium	**32**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:20	4
Zinc	**44**		5.7		mg/Kg		08/19/13 23:02	08/20/13 15:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.089**		0.0094		mg/Kg		08/19/13 21:18	08/20/13 11:30	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-1

Client Sample ID: EX4-SPOILS
Date Collected: 08/19/13 10:15
Date Received: 08/19/13 11:50

Lab Sample ID: 720-51729-10
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/19/13 18:46	08/19/13 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*77*		*45 - 131*	*08/19/13 18:46*	*08/19/13 22:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*	*08/19/13 18:46*	*08/19/13 22:11*	*1*
Toluene-d8 (Surr)	*90*		*58 - 140*	*08/19/13 18:46*	*08/19/13 22:11*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**160**		5.0		mg/Kg		08/19/13 16:15	08/19/13 21:30	5
Motor Oil Range Organics [C24-C36]	**580**		250		mg/Kg		08/19/13 16:15	08/19/13 21:30	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*08/19/13 16:15*	*08/19/13 21:30*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:25	4
Arsenic	**4.1**		3.9		mg/Kg		08/19/13 23:02	08/20/13 15:25	4
Barium	**140**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:25	4
Beryllium	ND		0.39		mg/Kg		08/19/13 23:02	08/20/13 15:25	4
Cadmium	ND		0.49		mg/Kg		08/19/13 23:02	08/20/13 15:25	4
Chromium	**51**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:25	4
Cobalt	**9.6**		0.78		mg/Kg		08/19/13 23:02	08/20/13 15:25	4
Copper	**30**		5.9		mg/Kg		08/19/13 23:02	08/20/13 15:25	4
Lead	**19**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:25	4
Molybdenum	ND		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:25	4
Nickel	**65**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:25	4
Selenium	ND		3.9		mg/Kg		08/19/13 23:02	08/20/13 15:25	4
Silver	ND		0.98		mg/Kg		08/19/13 23:02	08/20/13 15:25	4
Thallium	ND		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:25	4
Vanadium	**32**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:25	4
Zinc	**51**		5.9		mg/Kg		08/19/13 23:02	08/20/13 15:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.077**		0.0085		mg/Kg		08/19/13 21:18	08/20/13 11:38	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-1

Client Sample ID: CS-SPOILS
Date Collected: 08/19/13 10:25
Date Received: 08/19/13 11:50

Lab Sample ID: 720-51729-15
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/19/13 18:46	08/19/13 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*77*		*45 - 131*	*08/19/13 18:46*	*08/19/13 22:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*	*08/19/13 18:46*	*08/19/13 22:39*	*1*
Toluene-d8 (Surr)	*91*		*58 - 140*	*08/19/13 18:46*	*08/19/13 22:39*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**260**		9.9		mg/Kg		08/19/13 16:15	08/20/13 02:01	10
Motor Oil Range Organics [C24-C36]	**1900**		500		mg/Kg		08/19/13 16:15	08/20/13 02:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*08/19/13 16:15*	*08/20/13 02:01*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:29	4
Arsenic	**5.0**		3.8		mg/Kg		08/19/13 23:02	08/20/13 15:29	4
Barium	**190**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:29	4
Beryllium	ND		0.38		mg/Kg		08/19/13 23:02	08/20/13 15:29	4
Cadmium	ND		0.48		mg/Kg		08/19/13 23:02	08/20/13 15:29	4
Chromium	**60**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:29	4
Cobalt	**12**		0.77		mg/Kg		08/19/13 23:02	08/20/13 15:29	4
Copper	**34**		5.8		mg/Kg		08/19/13 23:02	08/20/13 15:29	4
Lead	**9.9**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:29	4
Molybdenum	ND		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:29	4
Nickel	**76**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:29	4
Selenium	ND		3.8		mg/Kg		08/19/13 23:02	08/20/13 15:29	4
Silver	ND		0.96		mg/Kg		08/19/13 23:02	08/20/13 15:29	4
Thallium	ND		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:29	4
Vanadium	**36**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:29	4
Zinc	**62**		5.8		mg/Kg		08/19/13 23:02	08/20/13 15:29	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.057**		0.0090		mg/Kg		08/19/13 21:18	08/20/13 11:41	1

Client Sample ID: EX3/4-SPOILS
Date Collected: 08/19/13 10:35
Date Received: 08/19/13 11:50

Lab Sample ID: 720-51729-20
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		08/19/13 18:46	08/19/13 23:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*76*		*45 - 131*	*08/19/13 18:46*	*08/19/13 23:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*	*08/19/13 18:46*	*08/19/13 23:08*	*1*
Toluene-d8 (Surr)	*87*		*58 - 140*	*08/19/13 18:46*	*08/19/13 23:08*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**650**		10		mg/Kg		08/19/13 16:15	08/20/13 11:18	10
Motor Oil Range Organics [C24-C36]	**1200**		500		mg/Kg		08/19/13 16:15	08/20/13 11:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*08/19/13 16:15*	*08/20/13 11:18*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:33	4
Arsenic	**4.0**		3.9		mg/Kg		08/19/13 23:02	08/20/13 15:33	4
Barium	**160**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:33	4
Beryllium	ND		0.39		mg/Kg		08/19/13 23:02	08/20/13 15:33	4
Cadmium	ND		0.49		mg/Kg		08/19/13 23:02	08/20/13 15:33	4
Chromium	**50**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:33	4
Cobalt	**9.2**		0.78		mg/Kg		08/19/13 23:02	08/20/13 15:33	4
Copper	**38**		5.9		mg/Kg		08/19/13 23:02	08/20/13 15:33	4
Lead	**6.9**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:33	4
Molybdenum	ND		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:33	4
Nickel	**62**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:33	4
Selenium	ND		3.9		mg/Kg		08/19/13 23:02	08/20/13 15:33	4
Silver	ND		0.98		mg/Kg		08/19/13 23:02	08/20/13 15:33	4
Thallium	ND		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:33	4
Vanadium	**31**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:33	4
Zinc	**40**		5.9		mg/Kg		08/19/13 23:02	08/20/13 15:33	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.031**		0.0083		mg/Kg		08/19/13 21:18	08/20/13 11:43	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-142519/6
Matrix: Solid
Analysis Batch: 142519

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			08/19/13 17:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*45 - 131*		*08/19/13 17:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*		*08/19/13 17:25*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*		*08/19/13 17:25*	*1*

Lab Sample ID: LCS 720-142519/9
Matrix: Solid
Analysis Batch: 142519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			1000	950		ug/Kg		95	61 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: LCSD 720-142519/10
Matrix: Solid
Analysis Batch: 142519

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	958		ug/Kg		96	61 - 128	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-142522/1-A
Matrix: Solid
Analysis Batch: 142487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 142522

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/19/13 16:15	08/20/13 01:33	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/19/13 16:15	08/20/13 01:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*95*		*40 - 130*	*08/19/13 16:15*	*08/20/13 01:33*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-142522/2-A
Matrix: Solid
Analysis Batch: 142461

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 142522

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.6	59.5		mg/Kg		72	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*91*		*40 - 130*

Lab Sample ID: LCSD 720-142522/3-A
Matrix: Solid
Analysis Batch: 142461

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 142522

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.8	74.2		mg/Kg		90	50 - 150	22	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*110*		*40 - 130*

Lab Sample ID: 720-51729-10 MS
Matrix: Solid
Analysis Batch: 142462

Client Sample ID: EX4-SPOILS
Prep Type: Total/NA
Prep Batch: 142522

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	160		82.8	229		mg/Kg		79	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*40 - 130*

Lab Sample ID: 720-51729-10 MSD
Matrix: Solid
Analysis Batch: 142462

Client Sample ID: EX4-SPOILS
Prep Type: Total/NA
Prep Batch: 142522

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	160		82.8	252		mg/Kg		106	50 - 150	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*40 - 130*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-142549/1-A
Matrix: Solid
Analysis Batch: 142620

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 142549

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Arsenic	ND		1.0		mg/Kg		08/19/13 23:02	08/20/13 14:23	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-142549/1-A
Matrix: Solid
Analysis Batch: 142620

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 142549

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.50		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Beryllium	ND		0.10		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Cadmium	ND		0.13		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Chromium	ND		0.50		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Cobalt	ND		0.20		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Copper	ND		1.5		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Lead	ND		0.50		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Molybdenum	ND		0.50		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Nickel	ND		0.50		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Selenium	ND		1.0		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Silver	ND		0.25		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Thallium	ND		0.50		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Vanadium	ND		0.50		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Zinc	ND		1.5		mg/Kg		08/19/13 23:02	08/20/13 14:23	1

Lab Sample ID: LCS 720-142549/2-A
Matrix: Solid
Analysis Batch: 142620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 142549

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.0		mg/Kg		94	80 - 120
Arsenic	50.0	45.4		mg/Kg		91	80 - 120
Barium	50.0	52.0		mg/Kg		104	80 - 120
Beryllium	50.0	48.2		mg/Kg		96	80 - 120
Cadmium	50.0	49.2		mg/Kg		98	80 - 120
Chromium	50.0	49.4		mg/Kg		99	80 - 120
Cobalt	50.0	51.3		mg/Kg		103	80 - 120
Copper	50.0	48.3		mg/Kg		97	80 - 120
Lead	50.0	47.2		mg/Kg		94	80 - 120
Molybdenum	50.0	47.4		mg/Kg		95	80 - 120
Nickel	50.0	49.0		mg/Kg		98	80 - 120
Selenium	50.0	44.2		mg/Kg		88	80 - 120
Silver	25.0	24.5		mg/Kg		98	80 - 120
Thallium	50.0	47.0		mg/Kg		94	80 - 120
Vanadium	50.0	46.7		mg/Kg		93	80 - 120
Zinc	50.0	45.4		mg/Kg		91	80 - 120

Lab Sample ID: LCSD 720-142549/3-A
Matrix: Solid
Analysis Batch: 142620

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 142549

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	46.8		mg/Kg		94	80 - 120	1	20
Arsenic	50.0	44.8		mg/Kg		90	80 - 120	1	20
Barium	50.0	50.9		mg/Kg		102	80 - 120	2	20
Beryllium	50.0	47.4		mg/Kg		95	80 - 120	2	20
Cadmium	50.0	48.4		mg/Kg		97	80 - 120	2	20
Chromium	50.0	48.6		mg/Kg		97	80 - 120	2	20
Cobalt	50.0	50.4		mg/Kg		101	80 - 120	2	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 720-142549/3-A
Matrix: Solid
Analysis Batch: 142620

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 142549

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper			50.0	47.8		mg/Kg		96	80 - 120	1	20
Lead			50.0	46.4		mg/Kg		93	80 - 120	2	20
Molybdenum			50.0	46.8		mg/Kg		94	80 - 120	1	20
Nickel			50.0	48.2		mg/Kg		96	80 - 120	2	20
Selenium			50.0	43.7		mg/Kg		87	80 - 120	1	20
Silver			25.0	24.3		mg/Kg		97	80 - 120	1	20
Thallium			50.0	46.4		mg/Kg		93	80 - 120	1	20
Vanadium			50.0	46.1		mg/Kg		92	80 - 120	1	20
Zinc			50.0	44.9		mg/Kg		90	80 - 120	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-142542/1-A
Matrix: Solid
Analysis Batch: 142589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 142542

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		08/19/13 21:18	08/20/13 11:08	1

Lab Sample ID: LCS 720-142542/2-A
Matrix: Solid
Analysis Batch: 142589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 142542

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.917		mg/Kg		110	80 - 120		

Lab Sample ID: LCSD 720-142542/3-A
Matrix: Solid
Analysis Batch: 142589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 142542

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.833	0.908		mg/Kg		109	80 - 120	1	20

GC/MS VOA

Analysis Batch: 142519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51729-5	EX5-SPOILS	Total/NA	Solid	8260B/CA_LUFT MS	142532
720-51729-10	EX4-SPOILS	Total/NA	Solid	8260B/CA_LUFT MS	142532
720-51729-15	CS-SPOILS	Total/NA	Solid	8260B/CA_LUFT MS	142532
720-51729-20	EX3/4-SPOILS	Total/NA	Solid	8260B/CA_LUFT MS	142532
LCS 720-142519/9	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-142519/10	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-142519/6	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 142532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51729-5	EX5-SPOILS	Total/NA	Solid	5030B	
720-51729-10	EX4-SPOILS	Total/NA	Solid	5030B	
720-51729-15	CS-SPOILS	Total/NA	Solid	5030B	
720-51729-20	EX3/4-SPOILS	Total/NA	Solid	5030B	

GC Semi VOA

Analysis Batch: 142461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51729-5	EX5-SPOILS	Total/NA	Solid	8015B	142522
720-51729-15	CS-SPOILS	Total/NA	Solid	8015B	142522
LCS 720-142522/2-A	Lab Control Sample	Total/NA	Solid	8015B	142522
LCSD 720-142522/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	142522

Analysis Batch: 142462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51729-10	EX4-SPOILS	Total/NA	Solid	8015B	142522
720-51729-10 MS	EX4-SPOILS	Total/NA	Solid	8015B	142522
720-51729-10 MSD	EX4-SPOILS	Total/NA	Solid	8015B	142522

Analysis Batch: 142487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-142522/1-A	Method Blank	Total/NA	Solid	8015B	142522

Prep Batch: 142522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51729-5	EX5-SPOILS	Total/NA	Solid	3546	
720-51729-10	EX4-SPOILS	Total/NA	Solid	3546	
720-51729-10 MS	EX4-SPOILS	Total/NA	Solid	3546	
720-51729-10 MSD	EX4-SPOILS	Total/NA	Solid	3546	
720-51729-15	CS-SPOILS	Total/NA	Solid	3546	
720-51729-20	EX3/4-SPOILS	Total/NA	Solid	3546	
LCS 720-142522/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-142522/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-142522/1-A	Method Blank	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Analysis Batch: 142555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51729-20	EX3/4-SPOILS	Total/NA	Solid	8015B	142522

Metals

Prep Batch: 142542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51729-5	EX5-SPOILS	Total/NA	Solid	7471A	
720-51729-10	EX4-SPOILS	Total/NA	Solid	7471A	
720-51729-15	CS-SPOILS	Total/NA	Solid	7471A	
720-51729-20	EX3/4-SPOILS	Total/NA	Solid	7471A	
LCS 720-142542/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-142542/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-142542/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 142549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51729-5	EX5-SPOILS	Total/NA	Solid	3050B	
720-51729-10	EX4-SPOILS	Total/NA	Solid	3050B	
720-51729-15	CS-SPOILS	Total/NA	Solid	3050B	
720-51729-20	EX3/4-SPOILS	Total/NA	Solid	3050B	
LCS 720-142549/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-142549/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-142549/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 142589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51729-5	EX5-SPOILS	Total/NA	Solid	7471A	142542
720-51729-10	EX4-SPOILS	Total/NA	Solid	7471A	142542
720-51729-15	CS-SPOILS	Total/NA	Solid	7471A	142542
720-51729-20	EX3/4-SPOILS	Total/NA	Solid	7471A	142542
LCS 720-142542/2-A	Lab Control Sample	Total/NA	Solid	7471A	142542
LCSD 720-142542/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	142542
MB 720-142542/1-A	Method Blank	Total/NA	Solid	7471A	142542

Analysis Batch: 142620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51729-5	EX5-SPOILS	Total/NA	Solid	6010B	142549
720-51729-10	EX4-SPOILS	Total/NA	Solid	6010B	142549
720-51729-15	CS-SPOILS	Total/NA	Solid	6010B	142549
720-51729-20	EX3/4-SPOILS	Total/NA	Solid	6010B	142549
LCS 720-142549/2-A	Lab Control Sample	Total/NA	Solid	6010B	142549
LCSD 720-142549/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	142549
MB 720-142549/1-A	Method Blank	Total/NA	Solid	6010B	142549

Client Sample ID: EX5-SPOILS

Lab Sample ID: 720-51729-5

Date Collected: 08/19/13 10:00

Matrix: Solid

Date Received: 08/19/13 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			142532	08/19/13 18:46	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	142519	08/19/13 21:42	ASC	TAL PLS
Total/NA	Prep	3546			142522	08/19/13 16:15	DBT	TAL PLS
Total/NA	Analysis	8015B		1	142461	08/20/13 01:36	DCH	TAL PLS
Total/NA	Prep	7471A			142542	08/19/13 21:18	CTD	TAL PLS
Total/NA	Analysis	7471A		1	142589	08/20/13 11:30	EFH	TAL PLS
Total/NA	Prep	3050B			142549	08/19/13 23:02	CTD	TAL PLS
Total/NA	Analysis	6010B		4	142620	08/20/13 15:20	EFH	TAL PLS

Client Sample ID: EX4-SPOILS

Lab Sample ID: 720-51729-10

Date Collected: 08/19/13 10:15

Matrix: Solid

Date Received: 08/19/13 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			142532	08/19/13 18:46	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	142519	08/19/13 22:11	ASC	TAL PLS
Total/NA	Prep	3546			142522	08/19/13 16:15	DBT	TAL PLS
Total/NA	Analysis	8015B		5	142462	08/19/13 21:30	DCH	TAL PLS
Total/NA	Prep	7471A			142542	08/19/13 21:18	CTD	TAL PLS
Total/NA	Analysis	7471A		1	142589	08/20/13 11:38	EFH	TAL PLS
Total/NA	Prep	3050B			142549	08/19/13 23:02	CTD	TAL PLS
Total/NA	Analysis	6010B		4	142620	08/20/13 15:25	EFH	TAL PLS

Client Sample ID: CS-SPOILS

Lab Sample ID: 720-51729-15

Date Collected: 08/19/13 10:25

Matrix: Solid

Date Received: 08/19/13 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			142532	08/19/13 18:46	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	142519	08/19/13 22:39	ASC	TAL PLS
Total/NA	Prep	3546			142522	08/19/13 16:15	DBT	TAL PLS
Total/NA	Analysis	8015B		10	142461	08/20/13 02:01	DCH	TAL PLS
Total/NA	Prep	7471A			142542	08/19/13 21:18	CTD	TAL PLS
Total/NA	Analysis	7471A		1	142589	08/20/13 11:41	EFH	TAL PLS
Total/NA	Prep	3050B			142549	08/19/13 23:02	CTD	TAL PLS
Total/NA	Analysis	6010B		4	142620	08/20/13 15:29	EFH	TAL PLS

Client Sample ID: EX3/4-SPOILS

Lab Sample ID: 720-51729-20

Date Collected: 08/19/13 10:35

Matrix: Solid

Date Received: 08/19/13 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			142532	08/19/13 18:46	LPL	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-1

Client Sample ID: EX3/4-SPOILS — **Lab Sample ID: 720-51729-20**

Date Collected: 08/19/13 10:35 — **Matrix: Solid**

Date Received: 08/19/13 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	142519	08/19/13 23:08	ASC	TAL PLS
Total/NA	Prep	3546			142522	08/19/13 16:15	DBT	TAL PLS
Total/NA	Analysis	8015B		10	142555	08/20/13 11:18	DCH	TAL PLS
Total/NA	Prep	7471A			142542	08/19/13 21:18	CTD	TAL PLS
Total/NA	Analysis	7471A		1	142589	08/20/13 11:43	EFH	TAL PLS
Total/NA	Prep	3050B			142549	08/19/13 23:02	CTD	TAL PLS
Total/NA	Analysis	6010B		4	142620	08/20/13 15:33	EFH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51729-5	EX5-SPOILS	Solid	08/19/13 10:00	08/19/13 11:50
720-51729-10	EX4-SPOILS	Solid	08/19/13 10:15	08/19/13 11:50
720-51729-15	CS-SPOILS	Solid	08/19/13 10:25	08/19/13 11:50
720-51729-20	EX3/4-SPOILS	Solid	08/19/13 10:35	08/19/13 11:50

148026

720-51729

CHAIN OF CUSTODY RECORD

HALEY & ALDRICH
Haley & Aldrich, Inc.
2033 N. Main St, Ste 309
Walnut Creek, CA 94596-7260
Phone (925) 949-1012
Fax (925) 979-1456

Page 1 of 1

8/20/2013

H&A FILE NO.	39792-	LABORATORY	Test America, Pleasanton, Ca
PROJECT NAME	Former Hanson Aggregate Facility	ADDRESS	1200 Quarry Lane, 94566
H&A CONTACT	J. Sebik, R Brownsberger	CONTACT	Dimple Sharma
DELIVERY DATE		TURNAROUND TIME	24- hour
PROJECT MANAGER	K. Guthrie, J Schwartz		

Sample No.	Date	Time	Depth	Type	TPH-d/mo by 8015B ~~with silica gel cleanup~~	Naphthalene ONLY by 8270C SIM	Proctor Test (Compaction Curve)	CAM17 metals	TPH-g	pH by 9040	VOCs	SVOCs	Asbestos by CARB 435	CAM17		Number of Containers
EX5-Spoils	8/19/13	1000	-	S	X				X					X		4
EX4-Spoils		1015	-	S	X				X					X		4
C5-Spoils		1025	-	S	X				X					X		4
EX3/4-Spoils		1035	-	S	X				X					X		4

Analysis Requested

Comments (special instructions, precautions, additional method numbers, etc.)

Composite each sample (4 8oz jars) in lab

JS 8/19/13

RUSH

Sampled and Relinquished by	Received by
Sign	Sign
Print JOANNA SEBIK	Print
Firm Haley & Aldrich	Firm
Date 8/19/13 Time 1150	Date 8-19-13 Time 1150
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

	LIQUID	SOLID
VOA Vial		
Amber Glass		
Plastic Bottle		
Clear Glass		X
Preservative		A
Volume		8oz

PRESERVATION KEY

A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Water/NaHSO4 (circle)

Sampling Comments

Archive all samples after analysis.

720-51729 Chain of Custody

Evidence samples were tampered with? YES NO

If YES, please explain in section below.

33° <4hrs

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples. Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate. Laboratory should (specify if applicable) _____ analyz

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

September 2012

Form 3003

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51729-1

Login Number: 51729

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51729-2
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
9/3/2013 3:18:33 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51729-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51729-2

Comments
No additional comments.

Receipt
The samples were received on 8/19/2013 11:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 33.0º C.

Metals
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-2

Client Sample ID: EX4-SPOILS — **Lab Sample ID: 720-51729-10**

No Detections.

Client Sample ID: CS-SPOILS — **Lab Sample ID: 720-51729-15**

No Detections.

Client Sample ID: EX3/4-SPOILS — **Lab Sample ID: 720-51729-20**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-2

Client Sample ID: EX4-SPOILS
Date Collected: 08/19/13 10:15
Date Received: 08/19/13 11:50

Lab Sample ID: 720-51729-10
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		08/31/13 14:19	09/03/13 12:53	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-2

Client Sample ID: CS-SPOILS
Date Collected: 08/19/13 10:25
Date Received: 08/19/13 11:50

Lab Sample ID: 720-51729-15
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		08/31/13 14:19	09/03/13 12:58	2.5

Client Sample Results

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-2

Client Sample ID: EX3/4-SPOILS
Date Collected: 08/19/13 10:35
Date Received: 08/19/13 11:50

Lab Sample ID: 720-51729-20
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		08/31/13 14:19	09/03/13 13:02	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-2

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-143459/1-A
Matrix: Solid
Analysis Batch: 143521

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 143459

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.010		mg/L		08/31/13 14:19	09/03/13 11:04	1

Lab Sample ID: LCS 720-143459/2-A
Matrix: Solid
Analysis Batch: 143521

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 143459

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.00	0.909		mg/L		91	80 - 120

Lab Sample ID: LCSD 720-143459/3-A
Matrix: Solid
Analysis Batch: 143521

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 143459

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	1.00	0.908		mg/L		91	80 - 120	0	20

Lab Sample ID: LB4 720-143255/1-D LB4
Matrix: Solid
Analysis Batch: 143521

Client Sample ID: Method Blank
Prep Type: STLC Citrate
Prep Batch: 143459

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		08/31/13 14:19	09/03/13 11:44	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-2

Metals

Leach Batch: 143255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51729-10	EX4-SPOILS	STLC Citrate	Solid	CA WET Citrate	
720-51729-15	CS-SPOILS	STLC Citrate	Solid	CA WET Citrate	
720-51729-20	EX3/4-SPOILS	STLC Citrate	Solid	CA WET Citrate	
LB4 720-143255/1-D LB4	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 143459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51729-10	EX4-SPOILS	STLC Citrate	Solid	3005A	143255
720-51729-15	CS-SPOILS	STLC Citrate	Solid	3005A	143255
720-51729-20	EX3/4-SPOILS	STLC Citrate	Solid	3005A	143255
LB4 720-143255/1-D LB4	Method Blank	STLC Citrate	Solid	3005A	143255
LCS 720-143459/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-143459/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-143459/1-A	Method Blank	Total Recoverable	Solid	3005A	

Analysis Batch: 143521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51729-10	EX4-SPOILS	STLC Citrate	Solid	6010B	143459
720-51729-15	CS-SPOILS	STLC Citrate	Solid	6010B	143459
720-51729-20	EX3/4-SPOILS	STLC Citrate	Solid	6010B	143459
LB4 720-143255/1-D LB4	Method Blank	STLC Citrate	Solid	6010B	143459
LCS 720-143459/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	143459
LCSD 720-143459/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	143459
MB 720-143459/1-A	Method Blank	Total Recoverable	Solid	6010B	143459

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-2

Client Sample ID: EX4-SPOILS

Lab Sample ID: 720-51729-10

Date Collected: 08/19/13 10:15

Matrix: Solid

Date Received: 08/19/13 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			143255	08/29/13 09:28	ASB	TAL PLS
STLC Citrate	Prep	3005A			143459	08/31/13 14:19	ASB	TAL PLS
STLC Citrate	Analysis	6010B		2.5	143521	09/03/13 12:53	EFH	TAL PLS

Client Sample ID: CS-SPOILS

Lab Sample ID: 720-51729-15

Date Collected: 08/19/13 10:25

Matrix: Solid

Date Received: 08/19/13 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			143255	08/29/13 09:28	ASB	TAL PLS
STLC Citrate	Prep	3005A			143459	08/31/13 14:19	ASB	TAL PLS
STLC Citrate	Analysis	6010B		2.5	143521	09/03/13 12:58	EFH	TAL PLS

Client Sample ID: EX3/4-SPOILS

Lab Sample ID: 720-51729-20

Date Collected: 08/19/13 10:35

Matrix: Solid

Date Received: 08/19/13 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			143255	08/29/13 09:28	ASB	TAL PLS
STLC Citrate	Prep	3005A			143459	08/31/13 14:19	ASB	TAL PLS
STLC Citrate	Analysis	6010B		2.5	143521	09/03/13 13:02	EFH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-2

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51729-10	EX4-SPOILS	Solid	08/19/13 10:15	08/19/13 11:50
720-51729-15	CS-SPOILS	Solid	08/19/13 10:25	08/19/13 11:50
720-51729-20	EX3/4-SPOILS	Solid	08/19/13 10:35	08/19/13 11:50

Salimpour, Afsaneh 720-51729-2

From: Sebik, Joanna [JSebik@haleyaldrich.com]
Sent: Wednesday, August 28, 2013 1:36 PM
To: Sharma, Dimple; Salimpour, Afsaneh
Cc: Guthrie, Kristin
Subject: Haley & Aldrich Archived Samples run for Cr and Pb by STLC

Importance: High

Afsaneh,

We submitted some 4-point composite samples on 8/16 and 8/19, which now need to be run for Chromium and Lead by STLC on a 48 hour TAT. Would you still have these samples to analyze?

Chromium by STLC:
from 720-51729-1 (8/19) samples EX4-Spoils, EX3/4-Spoils, and CS-Spoils from 720-51739-1 (8/19) samples EX9-Spoils and EX10-Spoils

Lead by STLC:
from 720-51718-1 (8/16) sample EX7-Spoils

My email is not currently working on my cell phone so please give me a call at 925-357-7355 if there are any issues or questions.

Thank you,

Joanna Sebik
Engineer
HALEY & ALDRICH
2033 North Main Street, Suite 309
Walnut Creek, CA 94596
Office: 925.949.1020
Cell: 925.357.7355
JSebik@HaleyAldrich.com
www.HaleyAldrich.com

720-51729 Chain of Custody

RUSH

Sharma, Dimple 720-51729-3

From: Sebik, Joanna [JSebik@haleyaldrich.com]
Sent: Thursday, August 29, 2013 1:05 PM
To: Sharma, Dimple
Cc: Guthrie, Kristin; Miller, Katherine, Minor, Pam
Subject: Additional Analyses for Hanson samples from 8/16 and 8/19

Dimple,

We just learned that the landfill accepting our soil waste requires VOC analysis by 8260. The relevant samples were submitted on 8/16 and 8/19 (these include the STLC samples requested yesterday). Would it be possible to run these samples for VOCs on a 48 hr TAT?

Samples are as follows:
720-51718-1 (8/16/13) - EX6-Spoils, EX7-Spoils
720-51729-1 (8/19/13) - EX3/4-Spoils, EX4-Spoils, EX5-Spoils, CS-Spoils
720-51739-1 (8/19/13) - EX9-Spoils, EX10-Spoils, EX11-Spoils

Thank you,

Joanna Sebik
Engineer
HALEY & ALDRICH
2033 North Main Street, Suite 309
Walnut Creek, CA 94596
Office: 925.949.1020
Cell: 925.357.7355
JSebik@HaleyAldrich.com
www.HaleyAldrich.com

720-51729 Chain of Custody

RUSH

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51729-2

Login Number: 51729

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



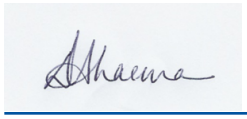
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51729-3
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie



Authorized for release by:
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Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51729-3

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51729-3

Comments
No additional comments.

Receipt
The samples were received on 8/19/2013 11:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 33.0º C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch #143407 recovered above the upper control limit for FREON-12. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 720-143407/3).

Method 8260B: Internal standard response for the following sample 51729-20 exceeded the lower control limit and confirmed by reanalysis. As such, the sample results may be biased high.

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-3

Client Sample ID: EX5-SPOILS — **Lab Sample ID: 720-51729-5**

No Detections.

Client Sample ID: EX4-SPOILS — **Lab Sample ID: 720-51729-10**

No Detections.

Client Sample ID: CS-SPOILS — **Lab Sample ID: 720-51729-15**

No Detections.

Client Sample ID: EX3/4-SPOILS — **Lab Sample ID: 720-51729-20**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-3

Client Sample ID: EX5-SPOILS
Date Collected: 08/19/13 10:00
Date Received: 08/19/13 11:50

Lab Sample ID: 720-51729-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Acetone	ND		48		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Benzene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Bromobenzene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Chlorobromomethane	ND		19		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Bromoform	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Bromomethane	ND		9.5		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
2-Butanone (MEK)	ND		48		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
n-Butylbenzene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
sec-Butylbenzene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
tert-Butylbenzene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Carbon disulfide	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Chlorobenzene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Chloroethane	ND		9.5		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Chloroform	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Chloromethane	ND		9.5		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
2-Chlorotoluene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
4-Chlorotoluene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Dibromomethane	ND		9.5		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Dichlorodifluoromethane	ND		9.5		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Ethylbenzene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Hexachlorobutadiene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
2-Hexanone	ND		48		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Isopropylbenzene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
4-Isopropyltoluene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Methylene Chloride	ND		9.5		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Naphthalene	ND		9.5		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
N-Propylbenzene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Styrene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-3

Client Sample ID: EX5-SPOILS
Date Collected: 08/19/13 10:00
Date Received: 08/19/13 11:50

Lab Sample ID: 720-51729-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Tetrachloroethene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Toluene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Trichloroethene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Vinyl acetate	ND		48		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Vinyl chloride	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
Xylenes, Total	ND		9.5		ug/Kg		08/30/13 19:08	08/30/13 19:54	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/30/13 19:08	08/30/13 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*71*		*45 - 131*	*08/30/13 10:00*	*08/30/13 14:31*	*1*
4-Bromofluorobenzene	*85*		*45 - 131*	*08/30/13 19:08*	*08/30/13 19:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*60 - 140*	*08/30/13 10:00*	*08/30/13 14:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 140*	*08/30/13 19:08*	*08/30/13 19:54*	*1*
Toluene-d8 (Surr)	*81*		*58 - 140*	*08/30/13 10:00*	*08/30/13 14:31*	*1*
Toluene-d8 (Surr)	*91*		*58 - 140*	*08/30/13 19:08*	*08/30/13 19:54*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-3

Client Sample ID: EX4-SPOILS
Date Collected: 08/19/13 10:15
Date Received: 08/19/13 11:50

Lab Sample ID: 720-51729-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Acetone	ND		43		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Benzene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Dichlorobromomethane	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Bromobenzene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Chlorobromomethane	ND		17		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Bromoform	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Bromomethane	ND		8.5		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
2-Butanone (MEK)	ND		43		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
n-Butylbenzene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
sec-Butylbenzene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
tert-Butylbenzene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Carbon disulfide	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Carbon tetrachloride	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Chlorobenzene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Chloroethane	ND		8.5		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Chloroform	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Chloromethane	ND		8.5		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
2-Chlorotoluene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
4-Chlorotoluene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Chlorodibromomethane	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,2-Dichlorobenzene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,3-Dichlorobenzene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,4-Dichlorobenzene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,3-Dichloropropane	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,1-Dichloropropene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,2-Dibromo-3-Chloropropane	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Ethylene Dibromide	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Dibromomethane	ND		8.5		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Dichlorodifluoromethane	ND		8.5		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,1-Dichloroethane	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,2-Dichloroethane	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,1-Dichloroethene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
cis-1,2-Dichloroethene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
trans-1,2-Dichloroethene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,2-Dichloropropane	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
cis-1,3-Dichloropropene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
trans-1,3-Dichloropropene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Ethylbenzene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Hexachlorobutadiene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
2-Hexanone	ND		43		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Isopropylbenzene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
4-Isopropyltoluene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Methylene Chloride	ND		8.5		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
4-Methyl-2-pentanone (MIBK)	ND		43		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Naphthalene	ND		8.5		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
N-Propylbenzene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Styrene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,1,1,2-Tetrachloroethane	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-3

Client Sample ID: EX4-SPOILS
Date Collected: 08/19/13 10:15
Date Received: 08/19/13 11:50

Lab Sample ID: 720-51729-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Tetrachloroethene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Toluene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,2,3-Trichlorobenzene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,2,4-Trichlorobenzene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,1,1-Trichloroethane	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,1,2-Trichloroethane	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Trichloroethene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Trichlorofluoromethane	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,2,3-Trichloropropane	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,2,4-Trimethylbenzene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
1,3,5-Trimethylbenzene	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Vinyl acetate	ND		43		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Vinyl chloride	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
Xylenes, Total	ND		8.5		ug/Kg		08/30/13 19:08	08/30/13 20:22	1
2,2-Dichloropropane	ND		4.3		ug/Kg		08/30/13 19:08	08/30/13 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*74*		*45 - 131*	*08/30/13 10:00*	*08/30/13 15:00*	*1*
4-Bromofluorobenzene	*85*		*45 - 131*	*08/30/13 19:08*	*08/30/13 20:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*60 - 140*	*08/30/13 10:00*	*08/30/13 15:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 140*	*08/30/13 19:08*	*08/30/13 20:22*	*1*
Toluene-d8 (Surr)	*78*		*58 - 140*	*08/30/13 10:00*	*08/30/13 15:00*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*08/30/13 19:08*	*08/30/13 20:22*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-3

Client Sample ID: CS-SPOILS
Date Collected: 08/19/13 10:25
Date Received: 08/19/13 11:50

Lab Sample ID: 720-51729-15
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Acetone	ND		46		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Benzene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Dichlorobromomethane	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Bromobenzene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Chlorobromomethane	ND		18		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Bromoform	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Bromomethane	ND		9.2		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
2-Butanone (MEK)	ND		46		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
n-Butylbenzene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
sec-Butylbenzene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
tert-Butylbenzene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Carbon disulfide	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Carbon tetrachloride	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Chlorobenzene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Chloroethane	ND		9.2		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Chloroform	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Chloromethane	ND		9.2		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
2-Chlorotoluene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
4-Chlorotoluene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Chlorodibromomethane	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,3-Dichloropropane	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,1-Dichloropropene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Ethylene Dibromide	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Dibromomethane	ND		9.2		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Dichlorodifluoromethane	ND		9.2		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,1-Dichloroethane	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,2-Dichloroethane	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,1-Dichloroethene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,2-Dichloropropane	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Ethylbenzene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Hexachlorobutadiene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
2-Hexanone	ND		46		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Isopropylbenzene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
4-Isopropyltoluene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Methylene Chloride	ND		9.2		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Naphthalene	ND		9.2		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
N-Propylbenzene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Styrene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-3

Client Sample ID: CS-SPOILS
Date Collected: 08/19/13 10:25
Date Received: 08/19/13 11:50

Lab Sample ID: 720-51729-15
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Tetrachloroethene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Toluene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Trichloroethene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Trichlorofluoromethane	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Vinyl acetate	ND		46		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Vinyl chloride	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
Xylenes, Total	ND		9.2		ug/Kg		08/30/13 19:08	08/30/13 20:50	1
2,2-Dichloropropane	ND		4.6		ug/Kg		08/30/13 19:08	08/30/13 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*71*		*45 - 131*	*08/30/13 10:00*	*08/30/13 15:28*	*1*
4-Bromofluorobenzene	*84*		*45 - 131*	*08/30/13 19:08*	*08/30/13 20:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*60 - 140*	*08/30/13 10:00*	*08/30/13 15:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 140*	*08/30/13 19:08*	*08/30/13 20:50*	*1*
Toluene-d8 (Surr)	*78*		*58 - 140*	*08/30/13 10:00*	*08/30/13 15:28*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*08/30/13 19:08*	*08/30/13 20:50*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-3

Client Sample ID: EX3/4-SPOILS
Date Collected: 08/19/13 10:35
Date Received: 08/19/13 11:50

Lab Sample ID: 720-51729-20
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Acetone	ND		50		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Benzene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Bromobenzene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Chlorobromomethane	ND		20		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Bromoform	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Bromomethane	ND		10		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
2-Butanone (MEK)	ND		50		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
n-Butylbenzene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Carbon disulfide	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Chlorobenzene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Chloroethane	ND		10		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Chloroform	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Chloromethane	ND		10		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Dibromomethane	ND		10		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Dichlorodifluoromethane	ND		10		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Ethylbenzene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
2-Hexanone	ND		50		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Isopropylbenzene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Methylene Chloride	ND		10		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Naphthalene	ND		10		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
N-Propylbenzene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Styrene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-3

Client Sample ID: EX3/4-SPOILS
Date Collected: 08/19/13 10:35
Date Received: 08/19/13 11:50

Lab Sample ID: 720-51729-20
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Tetrachloroethene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Toluene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Trichloroethene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Vinyl acetate	ND		50		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Vinyl chloride	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
Xylenes, Total	ND		10		ug/Kg		08/30/13 19:08	08/30/13 21:19	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/30/13 19:08	08/30/13 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*65*		*45 - 131*	*08/30/13 10:00*	*08/30/13 15:57*	*1*
4-Bromofluorobenzene	*82*		*45 - 131*	*08/30/13 19:08*	*08/30/13 21:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*122*		*60 - 140*	*08/30/13 10:00*	*08/30/13 15:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 140*	*08/30/13 19:08*	*08/30/13 21:19*	*1*
Toluene-d8 (Surr)	*78*		*58 - 140*	*08/30/13 10:00*	*08/30/13 15:57*	*1*
Toluene-d8 (Surr)	*88*		*58 - 140*	*08/30/13 19:08*	*08/30/13 21:19*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-143361/4
Matrix: Solid
Analysis Batch: 143361

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			08/30/13 08:51	1
Acetone	ND		50		ug/Kg			08/30/13 08:51	1
Benzene	ND		5.0		ug/Kg			08/30/13 08:51	1
Dichlorobromomethane	ND		5.0		ug/Kg			08/30/13 08:51	1
Bromobenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
Chlorobromomethane	ND		20		ug/Kg			08/30/13 08:51	1
Bromoform	ND		5.0		ug/Kg			08/30/13 08:51	1
Bromomethane	ND		10		ug/Kg			08/30/13 08:51	1
2-Butanone (MEK)	ND		50		ug/Kg			08/30/13 08:51	1
n-Butylbenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
sec-Butylbenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
tert-Butylbenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
Carbon disulfide	ND		5.0		ug/Kg			08/30/13 08:51	1
Carbon tetrachloride	ND		5.0		ug/Kg			08/30/13 08:51	1
Chlorobenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
Chloroethane	ND		10		ug/Kg			08/30/13 08:51	1
Chloroform	ND		5.0		ug/Kg			08/30/13 08:51	1
Chloromethane	ND		10		ug/Kg			08/30/13 08:51	1
2-Chlorotoluene	ND		5.0		ug/Kg			08/30/13 08:51	1
4-Chlorotoluene	ND		5.0		ug/Kg			08/30/13 08:51	1
Chlorodibromomethane	ND		5.0		ug/Kg			08/30/13 08:51	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
1,3-Dichloropropane	ND		5.0		ug/Kg			08/30/13 08:51	1
1,1-Dichloropropene	ND		5.0		ug/Kg			08/30/13 08:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			08/30/13 08:51	1
Ethylene Dibromide	ND		5.0		ug/Kg			08/30/13 08:51	1
Dibromomethane	ND		10		ug/Kg			08/30/13 08:51	1
Dichlorodifluoromethane	ND		10		ug/Kg			08/30/13 08:51	1
1,1-Dichloroethane	ND		5.0		ug/Kg			08/30/13 08:51	1
1,2-Dichloroethane	ND		5.0		ug/Kg			08/30/13 08:51	1
1,1-Dichloroethene	ND		5.0		ug/Kg			08/30/13 08:51	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			08/30/13 08:51	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			08/30/13 08:51	1
1,2-Dichloropropane	ND		5.0		ug/Kg			08/30/13 08:51	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			08/30/13 08:51	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			08/30/13 08:51	1
Ethylbenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
Hexachlorobutadiene	ND		5.0		ug/Kg			08/30/13 08:51	1
2-Hexanone	ND		50		ug/Kg			08/30/13 08:51	1
Isopropylbenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
4-Isopropyltoluene	ND		5.0		ug/Kg			08/30/13 08:51	1
Methylene Chloride	ND		10		ug/Kg			08/30/13 08:51	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			08/30/13 08:51	1
Naphthalene	ND		10		ug/Kg			08/30/13 08:51	1
N-Propylbenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
Styrene	ND		5.0		ug/Kg			08/30/13 08:51	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-143361/4
Matrix: Solid
Analysis Batch: 143361

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			08/30/13 08:51	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			08/30/13 08:51	1
Tetrachloroethene	ND		5.0		ug/Kg			08/30/13 08:51	1
Toluene	ND		5.0		ug/Kg			08/30/13 08:51	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			08/30/13 08:51	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			08/30/13 08:51	1
Trichloroethene	ND		5.0		ug/Kg			08/30/13 08:51	1
Trichlorofluoromethane	ND		5.0		ug/Kg			08/30/13 08:51	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			08/30/13 08:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			08/30/13 08:51	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
Vinyl acetate	ND		50		ug/Kg			08/30/13 08:51	1
Vinyl chloride	ND		5.0		ug/Kg			08/30/13 08:51	1
Xylenes, Total	ND		10		ug/Kg			08/30/13 08:51	1
2,2-Dichloropropane	ND		5.0		ug/Kg			08/30/13 08:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*83*		*45 - 131*		*08/30/13 08:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*		*08/30/13 08:51*	*1*
Toluene-d8 (Surr)	*89*		*58 - 140*		*08/30/13 08:51*	*1*

Lab Sample ID: LCS 720-143361/5
Matrix: Solid
Analysis Batch: 143361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	47.7		ug/Kg		95	70 - 144
Acetone	250	230		ug/Kg		92	30 - 162
Benzene	50.0	47.4		ug/Kg		95	70 - 130
Dichlorobromomethane	50.0	49.7		ug/Kg		99	70 - 131
Bromobenzene	50.0	46.3		ug/Kg		93	70 - 130
Chlorobromomethane	50.0	46.0		ug/Kg		92	70 - 130
Bromoform	50.0	52.6		ug/Kg		105	59 - 158
Bromomethane	50.0	40.5		ug/Kg		81	59 - 132
2-Butanone (MEK)	250	261		ug/Kg		104	53 - 124
n-Butylbenzene	50.0	47.2		ug/Kg		94	70 - 142
sec-Butylbenzene	50.0	47.4		ug/Kg		95	70 - 136
tert-Butylbenzene	50.0	48.1		ug/Kg		96	70 - 130
Carbon disulfide	50.0	43.1		ug/Kg		86	60 - 140
Carbon tetrachloride	50.0	50.0		ug/Kg		100	70 - 138
Chlorobenzene	50.0	50.5		ug/Kg		101	70 - 130
Chloroethane	50.0	40.8		ug/Kg		82	65 - 130
Chloroform	50.0	47.4		ug/Kg		95	77 - 127
Chloromethane	50.0	41.2		ug/Kg		82	55 - 140
2-Chlorotoluene	50.0	51.6		ug/Kg		103	70 - 138

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-143361/5
Matrix: Solid
Analysis Batch: 143361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	50.0	51.6		ug/Kg		103	70 - 136
Chlorodibromomethane	50.0	54.4		ug/Kg		109	70 - 146
1,2-Dichlorobenzene	50.0	46.6		ug/Kg		93	70 - 130
1,3-Dichlorobenzene	50.0	49.3		ug/Kg		99	70 - 131
1,4-Dichlorobenzene	50.0	47.7		ug/Kg		95	70 - 130
1,3-Dichloropropane	50.0	53.3		ug/Kg		107	70 - 140
1,1-Dichloropropene	50.0	50.2		ug/Kg		100	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.7		ug/Kg		97	60 - 145
Ethylene Dibromide	50.0	52.8		ug/Kg		106	70 - 140
Dibromomethane	50.0	46.7		ug/Kg		93	70 - 139
Dichlorodifluoromethane	50.0	44.7		ug/Kg		89	37 - 158
1,1-Dichloroethane	50.0	44.4		ug/Kg		89	70 - 130
1,2-Dichloroethane	50.0	48.7		ug/Kg		97	70 - 130
1,1-Dichloroethene	50.0	41.6		ug/Kg		83	76 - 122
cis-1,2-Dichloroethene	50.0	47.7		ug/Kg		95	70 - 138
trans-1,2-Dichloroethene	50.0	42.8		ug/Kg		86	67 - 130
1,2-Dichloropropane	50.0	48.7		ug/Kg		97	73 - 127
cis-1,3-Dichloropropene	50.0	54.4		ug/Kg		109	68 - 147
trans-1,3-Dichloropropene	50.0	53.9		ug/Kg		108	70 - 136
Ethylbenzene	50.0	50.3		ug/Kg		101	80 - 137
Hexachlorobutadiene	50.0	42.1		ug/Kg		84	70 - 132
2-Hexanone	250	271		ug/Kg		108	44 - 133
Isopropylbenzene	50.0	53.3		ug/Kg		107	88 - 128
4-Isopropyltoluene	50.0	46.8		ug/Kg		94	70 - 133
Methylene Chloride	50.0	43.1		ug/Kg		86	70 - 134
4-Methyl-2-pentanone (MIBK)	250	281		ug/Kg		112	60 - 160
Naphthalene	50.0	41.9		ug/Kg		84	60 - 147
N-Propylbenzene	50.0	47.4		ug/Kg		95	70 - 130
Styrene	50.0	55.6		ug/Kg		111	70 - 130
1,1,1,2-Tetrachloroethane	50.0	52.3		ug/Kg		105	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/Kg		102	70 - 146
Tetrachloroethene	50.0	50.7		ug/Kg		101	70 - 132
Toluene	50.0	47.9		ug/Kg		96	80 - 128
1,2,3-Trichlorobenzene	50.0	45.6		ug/Kg		91	60 - 140
1,2,4-Trichlorobenzene	50.0	45.1		ug/Kg		90	60 - 140
1,1,1-Trichloroethane	50.0	48.4		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	50.0	51.4		ug/Kg		103	70 - 130
Trichloroethene	50.0	48.1		ug/Kg		96	70 - 133
Trichlorofluoromethane	50.0	41.8		ug/Kg		84	60 - 140
1,2,3-Trichloropropane	50.0	50.7		ug/Kg		101	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.6		ug/Kg		89	60 - 140
1,2,4-Trimethylbenzene	50.0	50.7		ug/Kg		101	70 - 130
1,3,5-Trimethylbenzene	50.0	47.6		ug/Kg		95	70 - 131
Vinyl acetate	50.0	62.3		ug/Kg		125	38 - 176
Vinyl chloride	50.0	36.7		ug/Kg		73	58 - 125
m-Xylene & p-Xylene	100	99.3		ug/Kg		99	70 - 146
o-Xylene	50.0	52.3		ug/Kg		105	70 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-143361/5
Matrix: Solid
Analysis Batch: 143361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,2-Dichloropropane			50.0	52.4		ug/Kg		105	70 - 162		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: LCSD 720-143361/6
Matrix: Solid
Analysis Batch: 143361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether			50.0	49.5		ug/Kg		99	70 - 144	4	20
Acetone			250	238		ug/Kg		95	30 - 162	4	30
Benzene			50.0	46.7		ug/Kg		93	70 - 130	2	20
Dichlorobromomethane			50.0	48.8		ug/Kg		98	70 - 131	2	20
Bromobenzene			50.0	45.5		ug/Kg		91	70 - 130	2	20
Chlorobromomethane			50.0	45.9		ug/Kg		92	70 - 130	0	20
Bromoform			50.0	52.3		ug/Kg		105	59 - 158	0	20
Bromomethane			50.0	41.9		ug/Kg		84	59 - 132	3	20
2-Butanone (MEK)			250	272		ug/Kg		109	53 - 124	4	20
n-Butylbenzene			50.0	47.3		ug/Kg		95	70 - 142	0	20
sec-Butylbenzene			50.0	46.9		ug/Kg		94	70 - 136	1	20
tert-Butylbenzene			50.0	47.7		ug/Kg		95	70 - 130	1	20
Carbon disulfide			50.0	43.5		ug/Kg		87	60 - 140	1	20
Carbon tetrachloride			50.0	49.6		ug/Kg		99	70 - 138	1	20
Chlorobenzene			50.0	49.7		ug/Kg		99	70 - 130	2	20
Chloroethane			50.0	42.3		ug/Kg		85	65 - 130	4	20
Chloroform			50.0	47.2		ug/Kg		94	77 - 127	0	20
Chloromethane			50.0	43.3		ug/Kg		87	55 - 140	5	20
2-Chlorotoluene			50.0	50.5		ug/Kg		101	70 - 138	2	20
4-Chlorotoluene			50.0	50.1		ug/Kg		100	70 - 136	3	20
Chlorodibromomethane			50.0	53.5		ug/Kg		107	70 - 146	2	20
1,2-Dichlorobenzene			50.0	46.1		ug/Kg		92	70 - 130	1	20
1,3-Dichlorobenzene			50.0	48.4		ug/Kg		97	70 - 131	2	20
1,4-Dichlorobenzene			50.0	47.6		ug/Kg		95	70 - 130	0	20
1,3-Dichloropropane			50.0	51.5		ug/Kg		103	70 - 140	3	20
1,1-Dichloropropene			50.0	49.3		ug/Kg		99	70 - 130	2	20
1,2-Dibromo-3-Chloropropane			50.0	49.4		ug/Kg		99	60 - 145	1	20
Ethylene Dibromide			50.0	51.2		ug/Kg		102	70 - 140	3	20
Dibromomethane			50.0	46.0		ug/Kg		92	70 - 139	1	20
Dichlorodifluoromethane			50.0	45.2		ug/Kg		90	37 - 158	1	20
1,1-Dichloroethane			50.0	44.5		ug/Kg		89	70 - 130	0	20
1,2-Dichloroethane			50.0	48.9		ug/Kg		98	70 - 130	0	20
1,1-Dichloroethene			50.0	42.6		ug/Kg		85	76 - 122	2	20
cis-1,2-Dichloroethene			50.0	47.0		ug/Kg		94	70 - 138	1	20
trans-1,2-Dichloroethene			50.0	44.0		ug/Kg		88	67 - 130	3	20
1,2-Dichloropropane			50.0	47.6		ug/Kg		95	73 - 127	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-143361/6
Matrix: Solid
Analysis Batch: 143361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	50.0	53.7		ug/Kg		107	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	52.8		ug/Kg		106	70 - 136	2	20
Ethylbenzene	50.0	49.9		ug/Kg		100	80 - 137	1	20
Hexachlorobutadiene	50.0	45.0		ug/Kg		90	70 - 132	7	20
2-Hexanone	250	285		ug/Kg		114	44 - 133	5	20
Isopropylbenzene	50.0	52.3		ug/Kg		105	88 - 128	2	20
4-Isopropyltoluene	50.0	46.3		ug/Kg		93	70 - 133	1	20
Methylene Chloride	50.0	44.0		ug/Kg		88	70 - 134	2	20
4-Methyl-2-pentanone (MIBK)	250	293		ug/Kg		117	60 - 160	4	20
Naphthalene	50.0	43.7		ug/Kg		87	60 - 147	4	20
N-Propylbenzene	50.0	46.6		ug/Kg		93	70 - 130	2	20
Styrene	50.0	55.0		ug/Kg		110	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	51.2		ug/Kg		102	70 - 130	2	20
1,1,2,2-Tetrachloroethane	50.0	50.2		ug/Kg		100	70 - 146	1	20
Tetrachloroethene	50.0	49.6		ug/Kg		99	70 - 132	2	20
Toluene	50.0	47.0		ug/Kg		94	80 - 128	2	20
1,2,3-Trichlorobenzene	50.0	46.9		ug/Kg		94	60 - 140	3	20
1,2,4-Trichlorobenzene	50.0	46.1		ug/Kg		92	60 - 140	2	20
1,1,1-Trichloroethane	50.0	47.6		ug/Kg		95	70 - 130	2	20
1,1,2-Trichloroethane	50.0	51.3		ug/Kg		103	70 - 130	0	20
Trichloroethene	50.0	46.5		ug/Kg		93	70 - 133	3	20
Trichlorofluoromethane	50.0	42.7		ug/Kg		85	60 - 140	2	20
1,2,3-Trichloropropane	50.0	50.1		ug/Kg		100	70 - 146	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.4		ug/Kg		91	60 - 140	2	20
1,2,4-Trimethylbenzene	50.0	49.9		ug/Kg		100	70 - 130	2	20
1,3,5-Trimethylbenzene	50.0	46.5		ug/Kg		93	70 - 131	2	20
Vinyl acetate	50.0	65.2		ug/Kg		130	38 - 176	5	20
Vinyl chloride	50.0	37.2		ug/Kg		74	58 - 125	1	20
m-Xylene & p-Xylene	100	97.4		ug/Kg		97	70 - 146	2	20
o-Xylene	50.0	51.4		ug/Kg		103	70 - 140	2	20
2,2-Dichloropropane	50.0	52.2		ug/Kg		104	70 - 162	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*
Toluene-d8 (Surr)	*96*		*58 - 140*

Lab Sample ID: MB 720-143407/5
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			08/30/13 17:31	1
Acetone	ND		50		ug/Kg			08/30/13 17:31	1
Benzene	ND		5.0		ug/Kg			08/30/13 17:31	1
Dichlorobromomethane	ND		5.0		ug/Kg			08/30/13 17:31	1
Bromobenzene	ND		5.0		ug/Kg			08/30/13 17:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-143407/5
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobromomethane	ND		20		ug/Kg			08/30/13 17:31	1
Bromoform	ND		5.0		ug/Kg			08/30/13 17:31	1
Bromomethane	ND		10		ug/Kg			08/30/13 17:31	1
2-Butanone (MEK)	ND		50		ug/Kg			08/30/13 17:31	1
n-Butylbenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
sec-Butylbenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
tert-Butylbenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
Carbon disulfide	ND		5.0		ug/Kg			08/30/13 17:31	1
Carbon tetrachloride	ND		5.0		ug/Kg			08/30/13 17:31	1
Chlorobenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
Chloroethane	ND		10		ug/Kg			08/30/13 17:31	1
Chloroform	ND		5.0		ug/Kg			08/30/13 17:31	1
Chloromethane	ND		10		ug/Kg			08/30/13 17:31	1
2-Chlorotoluene	ND		5.0		ug/Kg			08/30/13 17:31	1
4-Chlorotoluene	ND		5.0		ug/Kg			08/30/13 17:31	1
Chlorodibromomethane	ND		5.0		ug/Kg			08/30/13 17:31	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
1,3-Dichloropropane	ND		5.0		ug/Kg			08/30/13 17:31	1
1,1-Dichloropropene	ND		5.0		ug/Kg			08/30/13 17:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			08/30/13 17:31	1
Ethylene Dibromide	ND		5.0		ug/Kg			08/30/13 17:31	1
Dibromomethane	ND		10		ug/Kg			08/30/13 17:31	1
Dichlorodifluoromethane	ND		10		ug/Kg			08/30/13 17:31	1
1,1-Dichloroethane	ND		5.0		ug/Kg			08/30/13 17:31	1
1,2-Dichloroethane	ND		5.0		ug/Kg			08/30/13 17:31	1
1,1-Dichloroethene	ND		5.0		ug/Kg			08/30/13 17:31	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			08/30/13 17:31	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			08/30/13 17:31	1
1,2-Dichloropropane	ND		5.0		ug/Kg			08/30/13 17:31	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			08/30/13 17:31	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			08/30/13 17:31	1
Ethylbenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
Hexachlorobutadiene	ND		5.0		ug/Kg			08/30/13 17:31	1
2-Hexanone	ND		50		ug/Kg			08/30/13 17:31	1
Isopropylbenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
4-Isopropyltoluene	ND		5.0		ug/Kg			08/30/13 17:31	1
Methylene Chloride	ND		10		ug/Kg			08/30/13 17:31	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			08/30/13 17:31	1
Naphthalene	ND		10		ug/Kg			08/30/13 17:31	1
N-Propylbenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
Styrene	ND		5.0		ug/Kg			08/30/13 17:31	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			08/30/13 17:31	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			08/30/13 17:31	1
Tetrachloroethene	ND		5.0		ug/Kg			08/30/13 17:31	1
Toluene	ND		5.0		ug/Kg			08/30/13 17:31	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			08/30/13 17:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-143407/5
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			08/30/13 17:31	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			08/30/13 17:31	1
Trichloroethene	ND		5.0		ug/Kg			08/30/13 17:31	1
Trichlorofluoromethane	ND		5.0		ug/Kg			08/30/13 17:31	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			08/30/13 17:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			08/30/13 17:31	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
Vinyl acetate	ND		50		ug/Kg			08/30/13 17:31	1
Vinyl chloride	ND		5.0		ug/Kg			08/30/13 17:31	1
Xylenes, Total	ND		10		ug/Kg			08/30/13 17:31	1
2,2-Dichloropropane	ND		5.0		ug/Kg			08/30/13 17:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*45 - 131*		*08/30/13 17:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 140*		*08/30/13 17:31*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*		*08/30/13 17:31*	*1*

Lab Sample ID: LCS 720-143407/6
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	46.5		ug/Kg		93	70 - 144
Acetone	250	216		ug/Kg		87	30 - 162
Benzene	50.0	45.6		ug/Kg		91	70 - 130
Dichlorobromomethane	50.0	50.4		ug/Kg		101	70 - 131
Bromobenzene	50.0	48.4		ug/Kg		97	70 - 130
Chlorobromomethane	50.0	49.6		ug/Kg		99	70 - 130
Bromoform	50.0	58.7		ug/Kg		117	59 - 158
Bromomethane	50.0	43.1		ug/Kg		86	59 - 132
2-Butanone (MEK)	250	217		ug/Kg		87	53 - 124
n-Butylbenzene	50.0	48.0		ug/Kg		96	70 - 142
sec-Butylbenzene	50.0	47.1		ug/Kg		94	70 - 136
tert-Butylbenzene	50.0	46.4		ug/Kg		93	70 - 130
Carbon disulfide	50.0	44.2		ug/Kg		88	60 - 140
Carbon tetrachloride	50.0	46.8		ug/Kg		94	70 - 138
Chlorobenzene	50.0	48.0		ug/Kg		96	70 - 130
Chloroethane	50.0	41.6		ug/Kg		83	65 - 130
Chloroform	50.0	45.6		ug/Kg		91	77 - 127
Chloromethane	50.0	38.8		ug/Kg		78	55 - 140
2-Chlorotoluene	50.0	46.5		ug/Kg		93	70 - 138
4-Chlorotoluene	50.0	45.5		ug/Kg		91	70 - 136
Chlorodibromomethane	50.0	55.9		ug/Kg		112	70 - 146
1,2-Dichlorobenzene	50.0	50.1		ug/Kg		100	70 - 130
1,3-Dichlorobenzene	50.0	51.9		ug/Kg		104	70 - 131
1,4-Dichlorobenzene	50.0	50.9		ug/Kg		102	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-143407/6
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	48.8		ug/Kg		98	70 - 140
1,1-Dichloropropene	50.0	47.1		ug/Kg		94	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	54.1		ug/Kg		108	60 - 145
Ethylene Dibromide	50.0	52.4		ug/Kg		105	70 - 140
Dibromomethane	50.0	48.0		ug/Kg		96	70 - 139
Dichlorodifluoromethane	50.0	45.6		ug/Kg		91	37 - 158
1,1-Dichloroethane	50.0	43.2		ug/Kg		86	70 - 130
1,2-Dichloroethane	50.0	44.4		ug/Kg		89	70 - 130
1,1-Dichloroethene	50.0	42.8		ug/Kg		86	76 - 122
cis-1,2-Dichloroethene	50.0	45.0		ug/Kg		90	70 - 138
trans-1,2-Dichloroethene	50.0	46.3		ug/Kg		93	67 - 130
1,2-Dichloropropane	50.0	47.9		ug/Kg		96	73 - 127
cis-1,3-Dichloropropene	50.0	53.4		ug/Kg		107	68 - 147
trans-1,3-Dichloropropene	50.0	53.4		ug/Kg		107	70 - 136
Ethylbenzene	50.0	44.5		ug/Kg		89	80 - 137
Hexachlorobutadiene	50.0	47.1		ug/Kg		94	70 - 132
2-Hexanone	250	233		ug/Kg		93	44 - 133
Isopropylbenzene	50.0	49.4		ug/Kg		99	88 - 128
4-Isopropyltoluene	50.0	47.2		ug/Kg		94	70 - 133
Methylene Chloride	50.0	49.2		ug/Kg		98	70 - 134
4-Methyl-2-pentanone (MIBK)	250	244		ug/Kg		97	60 - 160
Naphthalene	50.0	51.3		ug/Kg		103	60 - 147
N-Propylbenzene	50.0	47.9		ug/Kg		96	70 - 130
Styrene	50.0	52.4		ug/Kg		105	70 - 130
1,1,1,2-Tetrachloroethane	50.0	53.7		ug/Kg		107	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.9		ug/Kg		100	70 - 146
Tetrachloroethene	50.0	50.7		ug/Kg		101	70 - 132
Toluene	50.0	45.1		ug/Kg		90	80 - 128
1,2,3-Trichlorobenzene	50.0	49.9		ug/Kg		100	60 - 140
1,2,4-Trichlorobenzene	50.0	51.3		ug/Kg		103	60 - 140
1,1,1-Trichloroethane	50.0	44.5		ug/Kg		89	70 - 130
1,1,2-Trichloroethane	50.0	53.9		ug/Kg		108	70 - 130
Trichloroethene	50.0	49.9		ug/Kg		100	70 - 133
Trichlorofluoromethane	50.0	44.6		ug/Kg		89	60 - 140
1,2,3-Trichloropropane	50.0	46.9		ug/Kg		94	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.3		ug/Kg		93	60 - 140
1,2,4-Trimethylbenzene	50.0	48.9		ug/Kg		98	70 - 130
1,3,5-Trimethylbenzene	50.0	47.6		ug/Kg		95	70 - 131
Vinyl acetate	50.0	60.0		ug/Kg		120	38 - 176
Vinyl chloride	50.0	39.8		ug/Kg		80	58 - 125
m-Xylene & p-Xylene	100	93.7		ug/Kg		94	70 - 146
o-Xylene	50.0	48.2		ug/Kg		96	70 - 140
2,2-Dichloropropane	50.0	47.1		ug/Kg		94	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 140*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-143407/6
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	97		58 - 140

Lab Sample ID: LCSD 720-143407/7
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether			50.0	49.8		ug/Kg		100	70 - 144	7	20
Acetone			250	255		ug/Kg		102	30 - 162	16	30
Benzene			50.0	45.9		ug/Kg		92	70 - 130	1	20
Dichlorobromomethane			50.0	52.2		ug/Kg		104	70 - 131	3	20
Bromobenzene			50.0	48.4		ug/Kg		97	70 - 130	0	20
Chlorobromomethane			50.0	51.6		ug/Kg		103	70 - 130	4	20
Bromoform			50.0	62.4		ug/Kg		125	59 - 158	6	20
Bromomethane			50.0	42.1		ug/Kg		84	59 - 132	2	20
2-Butanone (MEK)			250	230		ug/Kg		92	53 - 124	6	20
n-Butylbenzene			50.0	47.8		ug/Kg		96	70 - 142	1	20
sec-Butylbenzene			50.0	46.5		ug/Kg		93	70 - 136	1	20
tert-Butylbenzene			50.0	45.9		ug/Kg		92	70 - 130	1	20
Carbon disulfide			50.0	43.7		ug/Kg		87	60 - 140	1	20
Carbon tetrachloride			50.0	47.0		ug/Kg		94	70 - 138	0	20
Chlorobenzene			50.0	49.0		ug/Kg		98	70 - 130	2	20
Chloroethane			50.0	41.1		ug/Kg		82	65 - 130	1	20
Chloroform			50.0	47.3		ug/Kg		95	77 - 127	4	20
Chloromethane			50.0	39.6		ug/Kg		79	55 - 140	2	20
2-Chlorotoluene			50.0	46.5		ug/Kg		93	70 - 138	0	20
4-Chlorotoluene			50.0	45.5		ug/Kg		91	70 - 136	0	20
Chlorodibromomethane			50.0	58.5		ug/Kg		117	70 - 146	5	20
1,2-Dichlorobenzene			50.0	51.1		ug/Kg		102	70 - 130	2	20
1,3-Dichlorobenzene			50.0	52.2		ug/Kg		104	70 - 131	0	20
1,4-Dichlorobenzene			50.0	51.7		ug/Kg		103	70 - 130	2	20
1,3-Dichloropropane			50.0	50.7		ug/Kg		101	70 - 140	4	20
1,1-Dichloropropene			50.0	46.8		ug/Kg		94	70 - 130	1	20
1,2-Dibromo-3-Chloropropane			50.0	57.7		ug/Kg		115	60 - 145	6	20
Ethylene Dibromide			50.0	56.7		ug/Kg		113	70 - 140	8	20
Dibromomethane			50.0	49.9		ug/Kg		100	70 - 139	4	20
Dichlorodifluoromethane			50.0	45.9		ug/Kg		92	37 - 158	1	20
1,1-Dichloroethane			50.0	43.4		ug/Kg		87	70 - 130	0	20
1,2-Dichloroethane			50.0	46.1		ug/Kg		92	70 - 130	4	20
1,1-Dichloroethene			50.0	44.0		ug/Kg		88	76 - 122	3	20
cis-1,2-Dichloroethene			50.0	45.7		ug/Kg		91	70 - 138	2	20
trans-1,2-Dichloroethene			50.0	46.6		ug/Kg		93	67 - 130	1	20
1,2-Dichloropropane			50.0	48.4		ug/Kg		97	73 - 127	1	20
cis-1,3-Dichloropropene			50.0	54.3		ug/Kg		109	68 - 147	2	20
trans-1,3-Dichloropropene			50.0	54.3		ug/Kg		109	70 - 136	2	20
Ethylbenzene			50.0	45.5		ug/Kg		91	80 - 137	2	20
Hexachlorobutadiene			50.0	47.2		ug/Kg		94	70 - 132	0	20
2-Hexanone			250	249		ug/Kg		100	44 - 133	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-143407/7
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropylbenzene	50.0	50.2		ug/Kg		100	88 - 128	2	20
4-Isopropyltoluene	50.0	47.0		ug/Kg		94	70 - 133	0	20
Methylene Chloride	50.0	50.5		ug/Kg		101	70 - 134	3	20
4-Methyl-2-pentanone (MIBK)	250	262		ug/Kg		105	60 - 160	7	20
Naphthalene	50.0	53.2		ug/Kg		106	60 - 147	4	20
N-Propylbenzene	50.0	46.9		ug/Kg		94	70 - 130	2	20
Styrene	50.0	54.4		ug/Kg		109	70 - 130	4	20
1,1,1,2-Tetrachloroethane	50.0	55.2		ug/Kg		110	70 - 130	3	20
1,1,2,2-Tetrachloroethane	50.0	51.0		ug/Kg		102	70 - 146	2	20
Tetrachloroethene	50.0	50.7		ug/Kg		101	70 - 132	0	20
Toluene	50.0	46.3		ug/Kg		93	80 - 128	3	20
1,2,3-Trichlorobenzene	50.0	50.9		ug/Kg		102	60 - 140	2	20
1,2,4-Trichlorobenzene	50.0	51.8		ug/Kg		104	60 - 140	1	20
1,1,1-Trichloroethane	50.0	44.5		ug/Kg		89	70 - 130	0	20
1,1,2-Trichloroethane	50.0	56.3		ug/Kg		113	70 - 130	4	20
Trichloroethene	50.0	51.0		ug/Kg		102	70 - 133	2	20
Trichlorofluoromethane	50.0	44.7		ug/Kg		89	60 - 140	0	20
1,2,3-Trichloropropane	50.0	48.8		ug/Kg		98	70 - 146	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.8		ug/Kg		94	60 - 140	1	20
1,2,4-Trimethylbenzene	50.0	49.1		ug/Kg		98	70 - 130	0	20
1,3,5-Trimethylbenzene	50.0	47.0		ug/Kg		94	70 - 131	1	20
Vinyl acetate	50.0	60.2		ug/Kg		120	38 - 176	0	20
Vinyl chloride	50.0	38.6		ug/Kg		77	58 - 125	3	20
m-Xylene & p-Xylene	100	94.8		ug/Kg		95	70 - 146	1	20
o-Xylene	50.0	49.8		ug/Kg		100	70 - 140	3	20
2,2-Dichloropropane	50.0	45.7		ug/Kg		91	70 - 162	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-3

GC/MS VOA

Analysis Batch: 143361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51729-5	EX5-SPOILS	Total/NA	Solid	8260B	143379
720-51729-10	EX4-SPOILS	Total/NA	Solid	8260B	143379
720-51729-15	CS-SPOILS	Total/NA	Solid	8260B	143379
720-51729-20	EX3/4-SPOILS	Total/NA	Solid	8260B	143379
LCS 720-143361/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-143361/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-143361/4	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 143379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51729-5	EX5-SPOILS	Total/NA	Solid	5030B	
720-51729-10	EX4-SPOILS	Total/NA	Solid	5030B	
720-51729-15	CS-SPOILS	Total/NA	Solid	5030B	
720-51729-20	EX3/4-SPOILS	Total/NA	Solid	5030B	

Analysis Batch: 143407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51729-5	EX5-SPOILS	Total/NA	Solid	8260B	143432
720-51729-10	EX4-SPOILS	Total/NA	Solid	8260B	143432
720-51729-15	CS-SPOILS	Total/NA	Solid	8260B	143432
720-51729-20	EX3/4-SPOILS	Total/NA	Solid	8260B	143432
LCS 720-143407/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-143407/7	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-143407/5	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 143432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51729-5	EX5-SPOILS	Total/NA	Solid	5030B	
720-51729-10	EX4-SPOILS	Total/NA	Solid	5030B	
720-51729-15	CS-SPOILS	Total/NA	Solid	5030B	
720-51729-20	EX3/4-SPOILS	Total/NA	Solid	5030B	

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-3

Client Sample ID: EX5-SPOILS

Lab Sample ID: 720-51729-5

Date Collected: 08/19/13 10:00

Matrix: Solid

Date Received: 08/19/13 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			143379	08/30/13 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B		1	143361	08/30/13 14:31	ASC	TAL PLS
Total/NA	Prep	5030B			143432	08/30/13 19:08	LPL	TAL PLS
Total/NA	Analysis	8260B		1	143407	08/30/13 19:54	ASC	TAL PLS

Client Sample ID: EX4-SPOILS

Lab Sample ID: 720-51729-10

Date Collected: 08/19/13 10:15

Matrix: Solid

Date Received: 08/19/13 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			143379	08/30/13 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B		1	143361	08/30/13 15:00	ASC	TAL PLS
Total/NA	Prep	5030B			143432	08/30/13 19:08	LPL	TAL PLS
Total/NA	Analysis	8260B		1	143407	08/30/13 20:22	ASC	TAL PLS

Client Sample ID: CS-SPOILS

Lab Sample ID: 720-51729-15

Date Collected: 08/19/13 10:25

Matrix: Solid

Date Received: 08/19/13 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			143379	08/30/13 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B		1	143361	08/30/13 15:28	ASC	TAL PLS
Total/NA	Prep	5030B			143432	08/30/13 19:08	LPL	TAL PLS
Total/NA	Analysis	8260B		1	143407	08/30/13 20:50	ASC	TAL PLS

Client Sample ID: EX3/4-SPOILS

Lab Sample ID: 720-51729-20

Date Collected: 08/19/13 10:35

Matrix: Solid

Date Received: 08/19/13 11:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			143379	08/30/13 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B		1	143361	08/30/13 15:57	ASC	TAL PLS
Total/NA	Prep	5030B			143432	08/30/13 19:08	LPL	TAL PLS
Total/NA	Analysis	8260B		1	143407	08/30/13 21:19	ASC	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-3

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-3

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51729-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51729-5	EX5-SPOILS	Solid	08/19/13 10:00	08/19/13 11:50
720-51729-10	EX4-SPOILS	Solid	08/19/13 10:15	08/19/13 11:50
720-51729-15	CS-SPOILS	Solid	08/19/13 10:25	08/19/13 11:50
720-51729-20	EX3/4-SPOILS	Solid	08/19/13 10:35	08/19/13 11:50

Sharma, Dimple 720-51729-3

From: Sebik, Joanna [JSebik@haleyaldrich.com]
Sent: Thursday, August 29, 2013 1:05 PM
To: Sharma, Dimple
Cc: Guthrie, Kristin; Miller, Katherine, Minor, Pam
Subject: Additional Analyses for Hanson samples from 8/16 and 8/19

Dimple,

We just learned that the landfill accepting our soil waste requires VOC analysis by 8260. The relevant samples were submitted on 8/16 and 8/19 (these include the STLC samples requested yesterday). Would it be possible to run these samples for VOCs on a 48 hr TAT?

Samples are as follows:
720-51718-1 (8/16/13) - EX6-Spoils, EX7-Spoils
720-51729-1 (8/19/13) - EX3/4-Spoils, EX4-Spoils, EX5-Spoils, CS-Spoils
720-51739-1 (8/19/13) - EX9-Spoils, EX10-Spoils, EX11-Spoils

Thank you,

Joanna Sebik
Engineer
HALEY & ALDRICH
2033 North Main Street, Suite 309
Walnut Creek, CA 94596
Office: 925.949.1020
Cell: 925.357.7355
JSebik@HaleyAldrich.com
www.HaleyAldrich.com

720-51729 Chain of Custody

RUSH

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51729-3

Login Number: 51729

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51739-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie

Authorized for release by:
8/20/2013 5:10:56 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51739-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51739-1

Comments
No additional comments.

Receipt
The samples were received on 8/19/2013 4:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 7.9º C.

GC/MS VOA
No analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-1

Client Sample ID: EX11-SPOILS — Lab Sample ID: 720-51739-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	54		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	140		50		mg/Kg	1		8015B	Silica Gel Cleanup
Arsenic	4.0		4.0		mg/Kg	4		6010B	Total/NA
Barium	130		2.0		mg/Kg	4		6010B	Total/NA
Chromium	44		2.0		mg/Kg	4		6010B	Total/NA
Cobalt	9.9		0.79		mg/Kg	4		6010B	Total/NA
Copper	30		5.9		mg/Kg	4		6010B	Total/NA
Lead	18		2.0		mg/Kg	4		6010B	Total/NA
Nickel	63		2.0		mg/Kg	4		6010B	Total/NA
Vanadium	30		2.0		mg/Kg	4		6010B	Total/NA
Zinc	99		5.9		mg/Kg	4		6010B	Total/NA
Mercury	0.045		0.0090		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX9-SPOILS — Lab Sample ID: 720-51739-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	30		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	88		50		mg/Kg	1		8015B	Silica Gel Cleanup
Arsenic	4.3		3.8		mg/Kg	4		6010B	Total/NA
Barium	180		1.9		mg/Kg	4		6010B	Total/NA
Chromium	60		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	11		0.77		mg/Kg	4		6010B	Total/NA
Copper	36		5.8		mg/Kg	4		6010B	Total/NA
Lead	34		1.9		mg/Kg	4		6010B	Total/NA
Nickel	72		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	35		1.9		mg/Kg	4		6010B	Total/NA
Zinc	69		5.8		mg/Kg	4		6010B	Total/NA
Mercury	0.060		0.0098		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX10-SPOILS — Lab Sample ID: 720-51739-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	250		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	590		150		mg/Kg	3		8015B	Silica Gel Cleanup
Arsenic	4.7		3.7		mg/Kg	4		6010B	Total/NA
Barium	230		1.9		mg/Kg	4		6010B	Total/NA
Chromium	67		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	13		0.75		mg/Kg	4		6010B	Total/NA
Copper	33		5.6		mg/Kg	4		6010B	Total/NA
Lead	20		1.9		mg/Kg	4		6010B	Total/NA
Nickel	82		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	36		1.9		mg/Kg	4		6010B	Total/NA
Zinc	71		5.6		mg/Kg	4		6010B	Total/NA
Mercury	0.044		0.0095		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-1

Client Sample ID: COMPOSITE-BP2-2 — Lab Sample ID: 720-51739-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	140		2.0		mg/Kg	4		6010B	Total/NA
Chromium	45		2.0		mg/Kg	4		6010B	Total/NA
Cobalt	9.9		0.80		mg/Kg	4		6010B	Total/NA
Copper	32		6.0		mg/Kg	4		6010B	Total/NA
Lead	5.3		2.0		mg/Kg	4		6010B	Total/NA
Nickel	65		2.0		mg/Kg	4		6010B	Total/NA
Vanadium	30		2.0		mg/Kg	4		6010B	Total/NA
Zinc	42		6.0		mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.0088		mg/Kg	1		7471A	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.90		0.100		SU	1		9045C	Soluble

Client Sample ID: COMPOSITE-BP2-3 — Lab Sample ID: 720-51739-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.5		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Arsenic	4.2		3.7		mg/Kg	4		6010B	Total/NA
Barium	150		1.9		mg/Kg	4		6010B	Total/NA
Chromium	43		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	11		0.75		mg/Kg	4		6010B	Total/NA
Copper	30		5.6		mg/Kg	4		6010B	Total/NA
Lead	6.6		1.9		mg/Kg	4		6010B	Total/NA
Nickel	64		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	35		1.9		mg/Kg	4		6010B	Total/NA
Zinc	52		5.6		mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.0090		mg/Kg	1		7471A	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	8.20		0.100		SU	1		9045C	Soluble

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-1

Client Sample ID: EX11-SPOILS
Date Collected: 08/19/13 13:30
Date Received: 08/19/13 16:10

Lab Sample ID: 720-51739-5
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/20/13 10:00	08/20/13 11:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*85*		*45 - 131*	*08/20/13 10:00*	*08/20/13 11:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*	*08/20/13 10:00*	*08/20/13 11:18*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*08/20/13 10:00*	*08/20/13 11:18*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**54**		0.99		mg/Kg		08/19/13 21:52	08/20/13 12:25	1
Motor Oil Range Organics [C24-C36]	**140**		50		mg/Kg		08/19/13 21:52	08/20/13 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.4*		*0 - 1*	*08/19/13 21:52*	*08/20/13 12:25*	*1*
p-Terphenyl	*69*		*38 - 148*	*08/19/13 21:52*	*08/20/13 12:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:38	4
Arsenic	**4.0**		4.0		mg/Kg		08/19/13 23:02	08/20/13 15:38	4
Barium	**130**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:38	4
Beryllium	ND		0.40		mg/Kg		08/19/13 23:02	08/20/13 15:38	4
Cadmium	ND		0.50		mg/Kg		08/19/13 23:02	08/20/13 15:38	4
Chromium	**44**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:38	4
Cobalt	**9.9**		0.79		mg/Kg		08/19/13 23:02	08/20/13 15:38	4
Copper	**30**		5.9		mg/Kg		08/19/13 23:02	08/20/13 15:38	4
Lead	**18**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:38	4
Molybdenum	ND		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:38	4
Nickel	**63**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:38	4
Selenium	ND		4.0		mg/Kg		08/19/13 23:02	08/20/13 15:38	4
Silver	ND		0.99		mg/Kg		08/19/13 23:02	08/20/13 15:38	4
Thallium	ND		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:38	4
Vanadium	**30**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:38	4
Zinc	**99**		5.9		mg/Kg		08/19/13 23:02	08/20/13 15:38	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.045**		0.0090		mg/Kg		08/19/13 21:57	08/20/13 09:40	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-1

Client Sample ID: EX9-SPOILS
Date Collected: 08/19/13 13:50
Date Received: 08/19/13 16:10

Lab Sample ID: 720-51739-10
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		08/19/13 18:46	08/20/13 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*83*		*45 - 131*	*08/19/13 18:46*	*08/20/13 00:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*	*08/19/13 18:46*	*08/20/13 00:05*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*08/19/13 18:46*	*08/20/13 00:05*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**30**		1.0		mg/Kg		08/19/13 21:52	08/20/13 12:31	1
Motor Oil Range Organics [C24-C36]	**88**		50		mg/Kg		08/19/13 21:52	08/20/13 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/19/13 21:52*	*08/20/13 12:31*	*1*
p-Terphenyl	*95*		*38 - 148*	*08/19/13 21:52*	*08/20/13 12:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:42	4
Arsenic	**4.3**		3.8		mg/Kg		08/19/13 23:02	08/20/13 15:42	4
Barium	**180**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:42	4
Beryllium	ND		0.38		mg/Kg		08/19/13 23:02	08/20/13 15:42	4
Cadmium	ND		0.48		mg/Kg		08/19/13 23:02	08/20/13 15:42	4
Chromium	**60**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:42	4
Cobalt	**11**		0.77		mg/Kg		08/19/13 23:02	08/20/13 15:42	4
Copper	**36**		5.8		mg/Kg		08/19/13 23:02	08/20/13 15:42	4
Lead	**34**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:42	4
Molybdenum	ND		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:42	4
Nickel	**72**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:42	4
Selenium	ND		3.8		mg/Kg		08/19/13 23:02	08/20/13 15:42	4
Silver	ND		0.96		mg/Kg		08/19/13 23:02	08/20/13 15:42	4
Thallium	ND		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:42	4
Vanadium	**35**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:42	4
Zinc	**69**		5.8		mg/Kg		08/19/13 23:02	08/20/13 15:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.060**		0.0098		mg/Kg		08/19/13 21:57	08/20/13 09:43	1

Client Sample ID: EX10-SPOILS
Date Collected: 08/19/13 13:40
Date Received: 08/19/13 16:10

Lab Sample ID: 720-51739-15
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/19/13 18:46	08/20/13 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*76*		*45 - 131*	*08/19/13 18:46*	*08/20/13 00:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*	*08/19/13 18:46*	*08/20/13 00:33*	*1*
Toluene-d8 (Surr)	*89*		*58 - 140*	*08/19/13 18:46*	*08/20/13 00:33*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**250**		3.0		mg/Kg		08/19/13 21:52	08/20/13 13:20	3
Motor Oil Range Organics [C24-C36]	**590**		150		mg/Kg		08/19/13 21:52	08/20/13 13:20	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*08/19/13 21:52*	*08/20/13 13:20*	*3*
p-Terphenyl	*68*		*38 - 148*	*08/19/13 21:52*	*08/20/13 13:20*	*3*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:47	4
Arsenic	**4.7**		3.7		mg/Kg		08/19/13 23:02	08/20/13 15:47	4
Barium	**230**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:47	4
Beryllium	ND		0.37		mg/Kg		08/19/13 23:02	08/20/13 15:47	4
Cadmium	ND		0.47		mg/Kg		08/19/13 23:02	08/20/13 15:47	4
Chromium	**67**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:47	4
Cobalt	**13**		0.75		mg/Kg		08/19/13 23:02	08/20/13 15:47	4
Copper	**33**		5.6		mg/Kg		08/19/13 23:02	08/20/13 15:47	4
Lead	**20**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:47	4
Molybdenum	ND		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:47	4
Nickel	**82**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:47	4
Selenium	ND		3.7		mg/Kg		08/19/13 23:02	08/20/13 15:47	4
Silver	ND		0.93		mg/Kg		08/19/13 23:02	08/20/13 15:47	4
Thallium	ND		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:47	4
Vanadium	**36**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:47	4
Zinc	**71**		5.6		mg/Kg		08/19/13 23:02	08/20/13 15:47	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.044**		0.0095		mg/Kg		08/19/13 21:57	08/20/13 09:46	1

Client Sample ID: COMPOSITE-BP2-2
Date Collected: 08/19/13 15:25
Date Received: 08/19/13 16:10

Lab Sample ID: 720-51739-20
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		08/20/13 10:00	08/20/13 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*82*		*45 - 131*	*08/20/13 10:00*	*08/20/13 11:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*	*08/20/13 10:00*	*08/20/13 11:47*	*1*
Toluene-d8 (Surr)	*91*		*58 - 140*	*08/20/13 10:00*	*08/20/13 11:47*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/19/13 21:52	08/20/13 12:31	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/19/13 21:52	08/20/13 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.005*		*0 - 1*	*08/19/13 21:52*	*08/20/13 12:31*	*1*
p-Terphenyl	*90*		*38 - 148*	*08/19/13 21:52*	*08/20/13 12:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:51	4
Arsenic	ND		4.0		mg/Kg		08/19/13 23:02	08/20/13 15:51	4
Barium	**140**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:51	4
Beryllium	ND		0.40		mg/Kg		08/19/13 23:02	08/20/13 15:51	4
Cadmium	ND		0.50		mg/Kg		08/19/13 23:02	08/20/13 15:51	4
Chromium	**45**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:51	4
Cobalt	**9.9**		0.80		mg/Kg		08/19/13 23:02	08/20/13 15:51	4
Copper	**32**		6.0		mg/Kg		08/19/13 23:02	08/20/13 15:51	4
Lead	**5.3**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:51	4
Molybdenum	ND		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:51	4
Nickel	**65**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:51	4
Selenium	ND		4.0		mg/Kg		08/19/13 23:02	08/20/13 15:51	4
Silver	ND		1.0		mg/Kg		08/19/13 23:02	08/20/13 15:51	4
Thallium	ND		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:51	4
Vanadium	**30**		2.0		mg/Kg		08/19/13 23:02	08/20/13 15:51	4
Zinc	**42**		6.0		mg/Kg		08/19/13 23:02	08/20/13 15:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.0088		mg/Kg		08/19/13 21:57	08/20/13 09:48	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.90**		0.100		SU			08/20/13 11:16	1

Client Sample ID: COMPOSITE-BP2-3
Date Collected: 08/19/13 15:40
Date Received: 08/19/13 16:10

Lab Sample ID: 720-51739-25
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/19/13 18:46	08/20/13 01:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*79*		*45 - 131*	*08/19/13 18:46*	*08/20/13 01:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*	*08/19/13 18:46*	*08/20/13 01:31*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*08/19/13 18:46*	*08/20/13 01:31*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2.5**		0.99		mg/Kg		08/19/13 21:52	08/20/13 12:55	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		08/19/13 21:52	08/20/13 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.003*		*0 - 1*	*08/19/13 21:52*	*08/20/13 12:55*	*1*
p-Terphenyl	*88*		*38 - 148*	*08/19/13 21:52*	*08/20/13 12:55*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:56	4
Arsenic	**4.2**		3.7		mg/Kg		08/19/13 23:02	08/20/13 15:56	4
Barium	**150**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:56	4
Beryllium	ND		0.37		mg/Kg		08/19/13 23:02	08/20/13 15:56	4
Cadmium	ND		0.47		mg/Kg		08/19/13 23:02	08/20/13 15:56	4
Chromium	**43**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:56	4
Cobalt	**11**		0.75		mg/Kg		08/19/13 23:02	08/20/13 15:56	4
Copper	**30**		5.6		mg/Kg		08/19/13 23:02	08/20/13 15:56	4
Lead	**6.6**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:56	4
Molybdenum	ND		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:56	4
Nickel	**64**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:56	4
Selenium	ND		3.7		mg/Kg		08/19/13 23:02	08/20/13 15:56	4
Silver	ND		0.93		mg/Kg		08/19/13 23:02	08/20/13 15:56	4
Thallium	ND		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:56	4
Vanadium	**35**		1.9		mg/Kg		08/19/13 23:02	08/20/13 15:56	4
Zinc	**52**		5.6		mg/Kg		08/19/13 23:02	08/20/13 15:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.12**		0.0090		mg/Kg		08/19/13 21:57	08/20/13 09:51	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.20**		0.100		SU			08/20/13 11:18	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-142519/6
Matrix: Solid
Analysis Batch: 142519

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			08/19/13 17:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*45 - 131*		*08/19/13 17:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*		*08/19/13 17:25*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*		*08/19/13 17:25*	*1*

Lab Sample ID: LCS 720-142519/9
Matrix: Solid
Analysis Batch: 142519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			1000	950		ug/Kg		95	61 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: LCSD 720-142519/10
Matrix: Solid
Analysis Batch: 142519

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	958		ug/Kg		96	61 - 128	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: MB 720-142553/5
Matrix: Solid
Analysis Batch: 142553

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			08/20/13 08:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*45 - 131*		*08/20/13 08:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*		*08/20/13 08:40*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*		*08/20/13 08:40*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-142553/8
Matrix: Solid
Analysis Batch: 142553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			1000	946		ug/Kg		95	61 - 128		

Lab Sample ID: LCSD 720-142553/9
Matrix: Solid
Analysis Batch: 142553

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	926		ug/Kg		93	61 - 128	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-142545/1-A
Matrix: Solid
Analysis Batch: 142557

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 142545

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/19/13 21:52	08/20/13 13:23	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/19/13 21:52	08/20/13 13:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.01*		*0 - 1*	*08/19/13 21:52*	*08/20/13 13:23*	*1*
p-Terphenyl	*100*		*38 - 148*	*08/19/13 21:52*	*08/20/13 13:23*	*1*

Lab Sample ID: LCS 720-142545/2-A
Matrix: Solid
Analysis Batch: 142557

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 142545

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.2	61.9		mg/Kg		75	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*103*		*38 - 148*

Lab Sample ID: LCSD 720-142545/3-A
Matrix: Solid
Analysis Batch: 142557

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 142545

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.2	67.4		mg/Kg		82	36 - 112	8	35

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-142545/3-A
Matrix: Solid
Analysis Batch: 142557

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 142545

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*101*		*38 - 148*

Lab Sample ID: 720-51739-5 MS
Matrix: Solid
Analysis Batch: 142558

Client Sample ID: EX11-SPOILS
Prep Type: Silica Gel Cleanup
Prep Batch: 142545

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	54		82.1	137		mg/Kg		101	50 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*88*		*38 - 148*

Lab Sample ID: 720-51739-5 MSD
Matrix: Solid
Analysis Batch: 142558

Client Sample ID: EX11-SPOILS
Prep Type: Silica Gel Cleanup
Prep Batch: 142545

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	54		82.0	163		mg/Kg		133	50 - 150	17	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*81*		*38 - 148*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-142549/1-A
Matrix: Solid
Analysis Batch: 142620

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 142549

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Arsenic	ND		1.0		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Barium	ND		0.50		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Beryllium	ND		0.10		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Cadmium	ND		0.13		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Chromium	ND		0.50		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Cobalt	ND		0.20		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Copper	ND		1.5		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Lead	ND		0.50		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Molybdenum	ND		0.50		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Nickel	ND		0.50		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Selenium	ND		1.0		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Silver	ND		0.25		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Thallium	ND		0.50		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Vanadium	ND		0.50		mg/Kg		08/19/13 23:02	08/20/13 14:23	1
Zinc	ND		1.5		mg/Kg		08/19/13 23:02	08/20/13 14:23	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-142549/2-A
Matrix: Solid
Analysis Batch: 142620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 142549

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.0		mg/Kg		94	80 - 120
Arsenic	50.0	45.4		mg/Kg		91	80 - 120
Barium	50.0	52.0		mg/Kg		104	80 - 120
Beryllium	50.0	48.2		mg/Kg		96	80 - 120
Cadmium	50.0	49.2		mg/Kg		98	80 - 120
Chromium	50.0	49.4		mg/Kg		99	80 - 120
Cobalt	50.0	51.3		mg/Kg		103	80 - 120
Copper	50.0	48.3		mg/Kg		97	80 - 120
Lead	50.0	47.2		mg/Kg		94	80 - 120
Molybdenum	50.0	47.4		mg/Kg		95	80 - 120
Nickel	50.0	49.0		mg/Kg		98	80 - 120
Selenium	50.0	44.2		mg/Kg		88	80 - 120
Silver	25.0	24.5		mg/Kg		98	80 - 120
Thallium	50.0	47.0		mg/Kg		94	80 - 120
Vanadium	50.0	46.7		mg/Kg		93	80 - 120
Zinc	50.0	45.4		mg/Kg		91	80 - 120

Lab Sample ID: LCSD 720-142549/3-A
Matrix: Solid
Analysis Batch: 142620

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 142549

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	46.8		mg/Kg		94	80 - 120	1	20
Arsenic	50.0	44.8		mg/Kg		90	80 - 120	1	20
Barium	50.0	50.9		mg/Kg		102	80 - 120	2	20
Beryllium	50.0	47.4		mg/Kg		95	80 - 120	2	20
Cadmium	50.0	48.4		mg/Kg		97	80 - 120	2	20
Chromium	50.0	48.6		mg/Kg		97	80 - 120	2	20
Cobalt	50.0	50.4		mg/Kg		101	80 - 120	2	20
Copper	50.0	47.8		mg/Kg		96	80 - 120	1	20
Lead	50.0	46.4		mg/Kg		93	80 - 120	2	20
Molybdenum	50.0	46.8		mg/Kg		94	80 - 120	1	20
Nickel	50.0	48.2		mg/Kg		96	80 - 120	2	20
Selenium	50.0	43.7		mg/Kg		87	80 - 120	1	20
Silver	25.0	24.3		mg/Kg		97	80 - 120	1	20
Thallium	50.0	46.4		mg/Kg		93	80 - 120	1	20
Vanadium	50.0	46.1		mg/Kg		92	80 - 120	1	20
Zinc	50.0	44.9		mg/Kg		90	80 - 120	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-142546/1-A
Matrix: Solid
Analysis Batch: 142578

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 142546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		08/19/13 21:57	08/20/13 09:26	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-142546/2-A
Matrix: Solid
Analysis Batch: 142578

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 142546

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.892		mg/Kg		107	80 - 120		

Lab Sample ID: LCSD 720-142546/3-A
Matrix: Solid
Analysis Batch: 142578

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 142546

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.833	0.883		mg/Kg		106	80 - 120	1	20

Lab Sample ID: 720-51739-5 MS
Matrix: Solid
Analysis Batch: 142578

Client Sample ID: EX11-SPOILS
Prep Type: Total/NA
Prep Batch: 142546

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.045		0.758	0.962		mg/Kg		121	75 - 125		

Lab Sample ID: 720-51739-5 MSD
Matrix: Solid
Analysis Batch: 142578

Client Sample ID: EX11-SPOILS
Prep Type: Total/NA
Prep Batch: 142546

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.045		0.758	0.932		mg/Kg		117	75 - 125	3	20

Method: 9045C - pH

Lab Sample ID: LCS 720-142576/1
Matrix: Solid
Analysis Batch: 142576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	6.930		SU		99	99 - 101		

Lab Sample ID: 720-51739-20 DU
Matrix: Solid
Analysis Batch: 142576

Client Sample ID: COMPOSITE-BP2-2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.90			7.950		SU				0.6	20

GC/MS VOA

Analysis Batch: 142519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-10	EX9-SPOILS	Total/NA	Solid	8260B/CA_LUFT MS	142532
720-51739-15	EX10-SPOILS	Total/NA	Solid	8260B/CA_LUFT MS	142532
720-51739-25	COMPOSITE-BP2-3	Total/NA	Solid	8260B/CA_LUFT MS	142532
LCS 720-142519/9	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-142519/10	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-142519/6	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 142532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-10	EX9-SPOILS	Total/NA	Solid	5030B	
720-51739-15	EX10-SPOILS	Total/NA	Solid	5030B	
720-51739-25	COMPOSITE-BP2-3	Total/NA	Solid	5030B	

Analysis Batch: 142553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-5	EX11-SPOILS	Total/NA	Solid	8260B/CA_LUFT MS	142591
720-51739-20	COMPOSITE-BP2-2	Total/NA	Solid	8260B/CA_LUFT MS	142591
LCS 720-142553/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-142553/9	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-142553/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 142591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-5	EX11-SPOILS	Total/NA	Solid	5030B	
720-51739-20	COMPOSITE-BP2-2	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 142545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-5	EX11-SPOILS	Silica Gel Cleanup	Solid	3546	
720-51739-5 MS	EX11-SPOILS	Silica Gel Cleanup	Solid	3546	
720-51739-5 MSD	EX11-SPOILS	Silica Gel Cleanup	Solid	3546	
720-51739-10	EX9-SPOILS	Silica Gel Cleanup	Solid	3546	
720-51739-15	EX10-SPOILS	Silica Gel Cleanup	Solid	3546	
720-51739-20	COMPOSITE-BP2-2	Silica Gel Cleanup	Solid	3546	
720-51739-25	COMPOSITE-BP2-3	Silica Gel Cleanup	Solid	3546	
LCS 720-142545/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-142545/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-142545/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

GC Semi VOA (Continued)

Analysis Batch: 142554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-10	EX9-SPOILS	Silica Gel Cleanup	Solid	8015B	142545

Analysis Batch: 142555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-15	EX10-SPOILS	Silica Gel Cleanup	Solid	8015B	142545
720-51739-20	COMPOSITE-BP2-2	Silica Gel Cleanup	Solid	8015B	142545
720-51739-25	COMPOSITE-BP2-3	Silica Gel Cleanup	Solid	8015B	142545

Analysis Batch: 142557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-142545/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	142545
LCSD 720-142545/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	142545
MB 720-142545/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	142545

Analysis Batch: 142558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-5	EX11-SPOILS	Silica Gel Cleanup	Solid	8015B	142545
720-51739-5 MS	EX11-SPOILS	Silica Gel Cleanup	Solid	8015B	142545
720-51739-5 MSD	EX11-SPOILS	Silica Gel Cleanup	Solid	8015B	142545

Metals

Prep Batch: 142546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-5	EX11-SPOILS	Total/NA	Solid	7471A	
720-51739-5 MS	EX11-SPOILS	Total/NA	Solid	7471A	
720-51739-5 MSD	EX11-SPOILS	Total/NA	Solid	7471A	
720-51739-10	EX9-SPOILS	Total/NA	Solid	7471A	
720-51739-15	EX10-SPOILS	Total/NA	Solid	7471A	
720-51739-20	COMPOSITE-BP2-2	Total/NA	Solid	7471A	
720-51739-25	COMPOSITE-BP2-3	Total/NA	Solid	7471A	
LCS 720-142546/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-142546/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-142546/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 142549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-5	EX11-SPOILS	Total/NA	Solid	3050B	
720-51739-10	EX9-SPOILS	Total/NA	Solid	3050B	
720-51739-15	EX10-SPOILS	Total/NA	Solid	3050B	
720-51739-20	COMPOSITE-BP2-2	Total/NA	Solid	3050B	
720-51739-25	COMPOSITE-BP2-3	Total/NA	Solid	3050B	
LCS 720-142549/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-142549/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-142549/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 142578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-5	EX11-SPOILS	Total/NA	Solid	7471A	142546
720-51739-5 MS	EX11-SPOILS	Total/NA	Solid	7471A	142546

Metals (Continued)

Analysis Batch: 142578 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-5 MSD	EX11-SPOILS	Total/NA	Solid	7471A	142546
720-51739-10	EX9-SPOILS	Total/NA	Solid	7471A	142546
720-51739-15	EX10-SPOILS	Total/NA	Solid	7471A	142546
720-51739-20	COMPOSITE-BP2-2	Total/NA	Solid	7471A	142546
720-51739-25	COMPOSITE-BP2-3	Total/NA	Solid	7471A	142546
LCS 720-142546/2-A	Lab Control Sample	Total/NA	Solid	7471A	142546
LCSD 720-142546/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	142546
MB 720-142546/1-A	Method Blank	Total/NA	Solid	7471A	142546

Analysis Batch: 142620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-5	EX11-SPOILS	Total/NA	Solid	6010B	142549
720-51739-10	EX9-SPOILS	Total/NA	Solid	6010B	142549
720-51739-15	EX10-SPOILS	Total/NA	Solid	6010B	142549
720-51739-20	COMPOSITE-BP2-2	Total/NA	Solid	6010B	142549
720-51739-25	COMPOSITE-BP2-3	Total/NA	Solid	6010B	142549
LCS 720-142549/2-A	Lab Control Sample	Total/NA	Solid	6010B	142549
LCSD 720-142549/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	142549
MB 720-142549/1-A	Method Blank	Total/NA	Solid	6010B	142549

General Chemistry

Leach Batch: 142568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-20	COMPOSITE-BP2-2	Soluble	Solid	DI Leach	
720-51739-20 DU	COMPOSITE-BP2-2	Soluble	Solid	DI Leach	
720-51739-25	COMPOSITE-BP2-3	Soluble	Solid	DI Leach	

Analysis Batch: 142576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-20	COMPOSITE-BP2-2	Soluble	Solid	9045C	142568
720-51739-20 DU	COMPOSITE-BP2-2	Soluble	Solid	9045C	142568
720-51739-25	COMPOSITE-BP2-3	Soluble	Solid	9045C	142568
LCS 720-142576/1	Lab Control Sample	Total/NA	Solid	9045C	

Client Sample ID: EX11-SPOILS

Lab Sample ID: 720-51739-5

Date Collected: 08/19/13 13:30

Matrix: Solid

Date Received: 08/19/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			142591	08/20/13 10:00	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	142553	08/20/13 11:18	PDR	TAL PLS
Silica Gel Cleanup	Prep	3546			142545	08/19/13 21:52	DBT	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142558	08/20/13 12:25	DCH	TAL PLS
Total/NA	Prep	7471A			142546	08/19/13 21:57	CTD	TAL PLS
Total/NA	Analysis	7471A		1	142578	08/20/13 09:40	EFH	TAL PLS
Total/NA	Prep	3050B			142549	08/19/13 23:02	CTD	TAL PLS
Total/NA	Analysis	6010B		4	142620	08/20/13 15:38	EFH	TAL PLS

Client Sample ID: EX9-SPOILS

Lab Sample ID: 720-51739-10

Date Collected: 08/19/13 13:50

Matrix: Solid

Date Received: 08/19/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			142532	08/19/13 18:46	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	142519	08/20/13 00:05	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			142545	08/19/13 21:52	DBT	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142554	08/20/13 12:31	DCH	TAL PLS
Total/NA	Prep	7471A			142546	08/19/13 21:57	CTD	TAL PLS
Total/NA	Analysis	7471A		1	142578	08/20/13 09:43	EFH	TAL PLS
Total/NA	Prep	3050B			142549	08/19/13 23:02	CTD	TAL PLS
Total/NA	Analysis	6010B		4	142620	08/20/13 15:42	EFH	TAL PLS

Client Sample ID: EX10-SPOILS

Lab Sample ID: 720-51739-15

Date Collected: 08/19/13 13:40

Matrix: Solid

Date Received: 08/19/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			142532	08/19/13 18:46	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	142519	08/20/13 00:33	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			142545	08/19/13 21:52	DBT	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	142555	08/20/13 13:20	DCH	TAL PLS
Total/NA	Prep	7471A			142546	08/19/13 21:57	CTD	TAL PLS
Total/NA	Analysis	7471A		1	142578	08/20/13 09:46	EFH	TAL PLS
Total/NA	Prep	3050B			142549	08/19/13 23:02	CTD	TAL PLS
Total/NA	Analysis	6010B		4	142620	08/20/13 15:47	EFH	TAL PLS

Client Sample ID: COMPOSITE-BP2-2

Lab Sample ID: 720-51739-20

Date Collected: 08/19/13 15:25

Matrix: Solid

Date Received: 08/19/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			142591	08/20/13 10:00	PDR	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-1

Client Sample ID: COMPOSITE-BP2-2

Lab Sample ID: 720-51739-20

Date Collected: 08/19/13 15:25

Matrix: Solid

Date Received: 08/19/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	142553	08/20/13 11:47	PDR	TAL PLS
Silica Gel Cleanup	Prep	3546			142545	08/19/13 21:52	DBT	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142555	08/20/13 12:31	DCH	TAL PLS
Total/NA	Prep	7471A			142546	08/19/13 21:57	CTD	TAL PLS
Total/NA	Analysis	7471A		1	142578	08/20/13 09:48	EFH	TAL PLS
Total/NA	Prep	3050B			142549	08/19/13 23:02	CTD	TAL PLS
Total/NA	Analysis	6010B		4	142620	08/20/13 15:51	EFH	TAL PLS
Soluble	Leach	DI Leach			142568	08/20/13 09:07	MJK	TAL PLS
Soluble	Analysis	9045C		1	142576	08/20/13 11:16	MJK	TAL PLS

Client Sample ID: COMPOSITE-BP2-3

Lab Sample ID: 720-51739-25

Date Collected: 08/19/13 15:40

Matrix: Solid

Date Received: 08/19/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			142532	08/19/13 18:46	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	142519	08/20/13 01:31	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			142545	08/19/13 21:52	DBT	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	142555	08/20/13 12:55	DCH	TAL PLS
Total/NA	Prep	7471A			142546	08/19/13 21:57	CTD	TAL PLS
Total/NA	Analysis	7471A		1	142578	08/20/13 09:51	EFH	TAL PLS
Total/NA	Prep	3050B			142549	08/19/13 23:02	CTD	TAL PLS
Total/NA	Analysis	6010B		4	142620	08/20/13 15:56	EFH	TAL PLS
Soluble	Leach	DI Leach			142568	08/20/13 09:07	MJK	TAL PLS
Soluble	Analysis	9045C		1	142576	08/20/13 11:18	MJK	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
9045C	pH	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51739-5	EX11-SPOILS	Solid	08/19/13 13:30	08/19/13 16:10
720-51739-10	EX9-SPOILS	Solid	08/19/13 13:50	08/19/13 16:10
720-51739-15	EX10-SPOILS	Solid	08/19/13 13:40	08/19/13 16:10
720-51739-20	COMPOSITE-BP2-2	Solid	08/19/13 15:25	08/19/13 16:10
720-51739-25	COMPOSITE-BP2-3	Solid	08/19/13 15:40	08/19/13 16:10

720-51739 Jc

1490028

CHAIN OF CUSTODY RECORD

HALEY & ALDRICH

Haley & Aldrich, Inc.
2033 N. Main St, Ste 309
Walnut Creek, CA 94596-7260

Phone (925) 949-1012
Fax (925) 979-1456

Page 1 of 1

H&A FILE NO.	39792-	LABORATORY	Test America, Pleasanton, Ca
PROJECT NAME	Former Hanson Aggregate Facility	ADDRESS	1200 Quarry Lane, 94566
H&A CONTACT	J. Sebik, R Brownsberger 925-357-7355	CONTACT	Dimple Sharma

DELIVERY DATE
TURNAROUND TIME 24- hour
PROJECT MANAGER K. Guthrie, J Schwartz

Sample No.	Date	Time	Depth	Type	TPH-d/mo by 8015B with silica gel cleanup	Naphthalene ONLY by 8270C SIM	Proctor Test (Compaction Curve)	CAM17 metals	TPH-g	pH by 9040	VOCs	SVOCs	Asbestos by CARB 435			Number of Containers
EX11-Spoils	8/19/13	1330	—	S	X			X	X							4
EX9- Spoils		1350	—	S	X			X	X							4
EX10- Spoils		1340	—	S	X			X	X							4
Composite-BPZ-2		1525	—	S	X			X	X	X			X			4
Composite- BPZ-3		1540	—	S	X			X	X	X			X			4

Analysis Requested

Comments (special instructions, precautions, additional method numbers, etc.)

Composite 4 8oz jars of each sample in lab.

RUSH

JS 8/19/13

Sampled and Relinquished by	Received by
Sign	Sign
Print JOANNA SEBIK	Print T. Bullock
Firm Haley & Aldrich	Firm Test America
Date 8/19/13 Time 1610	Date 8/19/13 Time 16:10
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID	
	VOA Vial
	Amber Glass
	Plastic Bottle
	Preservative
	Volume

SOLID	
	VOA Vial
	Amber Glass
X	Clear Glass
A	Preservative
8oz	Volume

PRESERVATION KEY			
A Sample chilled	C NaOH	E H_2SO_4	G Methanol
B Sample filtered	D HNO_3	F HCL	H Water/NaHSO4 (circle)

Sampling Comments

Archive all samples after analysis

720-51739 Chain of Custody

Evidence samples were tampered with? YES NO

If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate. Laboratory should (specify if applicable) _____ analyz

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

7.9°C = 4HRS

September 2012

Form 3003

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51739-1

Login Number: 51739

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Bullock, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



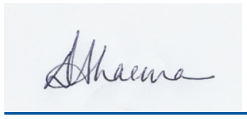
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51739-3
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie



Authorized for release by:
9/3/2013 3:24:20 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-3

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-51739-3

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51739-3

Comments
No additional comments.

Receipt
The samples were received on 8/19/2013 4:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 7.9º C.

Metals
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-3

Client Sample ID: EX9-SPOILS — **Lab Sample ID: 720-51739-10**

No Detections.

Client Sample ID: EX10-SPOILS — **Lab Sample ID: 720-51739-15**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-3

Client Sample ID: EX9-SPOILS
Date Collected: 08/19/13 13:50
Date Received: 08/19/13 16:10

Lab Sample ID: 720-51739-10
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		08/31/13 14:19	09/03/13 12:07	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-3

Client Sample ID: EX10-SPOILS
Date Collected: 08/19/13 13:40
Date Received: 08/19/13 16:10

Lab Sample ID: 720-51739-15
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		08/31/13 14:19	09/03/13 12:12	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-3

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-143459/1-A
Matrix: Solid
Analysis Batch: 143521

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 143459

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.010		mg/L		08/31/13 14:19	09/03/13 11:04	1

Lab Sample ID: LCS 720-143459/2-A
Matrix: Solid
Analysis Batch: 143521

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 143459

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.00	0.909		mg/L		91	80 - 120

Lab Sample ID: LCSD 720-143459/3-A
Matrix: Solid
Analysis Batch: 143521

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 143459

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	1.00	0.908		mg/L		91	80 - 120	0	20

Lab Sample ID: LB4 720-143255/1-D LB4
Matrix: Solid
Analysis Batch: 143521

Client Sample ID: Method Blank
Prep Type: STLC Citrate
Prep Batch: 143459

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		08/31/13 14:19	09/03/13 11:44	2.5

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-3

Metals

Leach Batch: 143255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-10	EX9-SPOILS	STLC Citrate	Solid	CA WET Citrate	
720-51739-15	EX10-SPOILS	STLC Citrate	Solid	CA WET Citrate	
LB4 720-143255/1-D LB4	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 143459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-10	EX9-SPOILS	STLC Citrate	Solid	3005A	143255
720-51739-15	EX10-SPOILS	STLC Citrate	Solid	3005A	143255
LB4 720-143255/1-D LB4	Method Blank	STLC Citrate	Solid	3005A	143255
LCS 720-143459/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-143459/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-143459/1-A	Method Blank	Total Recoverable	Solid	3005A	

Analysis Batch: 143521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-10	EX9-SPOILS	STLC Citrate	Solid	6010B	143459
720-51739-15	EX10-SPOILS	STLC Citrate	Solid	6010B	143459
LB4 720-143255/1-D LB4	Method Blank	STLC Citrate	Solid	6010B	143459
LCS 720-143459/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	143459
LCSD 720-143459/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	143459
MB 720-143459/1-A	Method Blank	Total Recoverable	Solid	6010B	143459

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-3

Client Sample ID: EX9-SPOILS

Lab Sample ID: 720-51739-10

Date Collected: 08/19/13 13:50

Matrix: Solid

Date Received: 08/19/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			143255	08/29/13 09:28	ASB	TAL PLS
STLC Citrate	Prep	3005A			143459	08/31/13 14:19	ASB	TAL PLS
STLC Citrate	Analysis	6010B		2.5	143521	09/03/13 12:07	EFH	TAL PLS

Client Sample ID: EX10-SPOILS

Lab Sample ID: 720-51739-15

Date Collected: 08/19/13 13:40

Matrix: Solid

Date Received: 08/19/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			143255	08/29/13 09:28	ASB	TAL PLS
STLC Citrate	Prep	3005A			143459	08/31/13 14:19	ASB	TAL PLS
STLC Citrate	Analysis	6010B		2.5	143521	09/03/13 12:12	EFH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-3

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-3

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51739-10	EX9-SPOILS	Solid	08/19/13 13:50	08/19/13 16:10
720-51739-15	EX10-SPOILS	Solid	08/19/13 13:40	08/19/13 16:10

Salimpour, Afsaneh 720-51739-3

From: Sebik, Joanna [JSebik@haleyaldrich.com]
Sent: Wednesday, August 28, 2013 1:36 PM
To: Sharma, Dimple; Salimpour, Afsaneh
Cc: Guthrie, Kristin
Subject: Haley & Aldrich Archived Samples run for Cr and Pb by STLC

Importance: High

Afsaneh,

We submitted some 4-point composite samples on 8/16 and 8/19, which now need to be run for Chromium and Lead by STLC on a 48 hour TAT. Would you still have these samples to analyze?

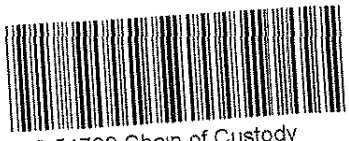
Chromium by STLC:
from 720-51729-1 (8/19) samples EX4-Spoils, EX3/4-Spoils, and CS-Spoils from 720-51739-1 (8/19) samples EX9-Spoils and EX10-Spoils

Lead by STLC:
from 720-51718-1 (8/16) sample EX7-Spoils

My email is not currently working on my cell phone so please give me a call at 925-357-7355 if there are any issues or questions.

Thank you,

Joanna Sebik
Engineer
HALEY & ALDRICH
2033 North Main Street, Suite 309
Walnut Creek, CA 94596
Office: 925.949.1020
Cell: 925.357.7355
JSebik@HaleyAldrich.com
www.HaleyAldrich.com


720-51739 Chain of Custody

RUSH

Sharma, Dimple 720-51739-4

From: Sebik, Joanna [JSebik@haleyaldrich.com]
Sent: Thursday, August 29, 2013 1:05 PM
To: Sharma, Dimple
Cc: Guthrie, Kristin; Miller, Katherine; Minor, Pam
Subject: Additional Analyses for Hanson samples from 8/16 and 8/19

Dimple,

We just learned that the landfill accepting our soil waste requires VOC analysis by 8260. The relevant samples were submitted on 8/16 and 8/19 (these include the STLC samples requested yesterday). Would it be possible to run these samples for VOCs on a 48 hr TAT?

Samples are as follows:
720-51718-1 (8/16/13) - EX6-Spoils, EX7-Spoils
720-51729-1 (8/19/13) - EX3/4-Spoils, EX4-Spoils, EX5-Spoils, CS-Spoils
720-51739-1 (8/19/13) - EX9-Spoils, EX10-Spoils, EX11-Spoils

Thank you,

Joanna Sebik
Engineer
HALEY & ALDRICH
2033 North Main Street, Suite 309
Walnut Creek, CA 94596
Office: 925.949.1020
Cell: 925.357.7355
JSebik@HaleyAldrich.com
www.HaleyAldrich.com



720-51739 Chain of Custody

RUSH

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51739-3

Login Number: 51739

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Bullock, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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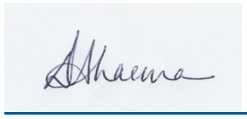
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-51739-4
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie



Authorized for release by:
9/3/2013 2:39:00 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-4

Job ID: 720-51739-4

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-51739-4

Comments
No additional comments.

Receipt
The samples were received on 8/19/2013 4:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.9º C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch #143407 recovered above the upper control limit for FREON-12. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 720-143407/3).

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-4

Client Sample ID: EX11-SPOILS — **Lab Sample ID: 720-51739-5**

No Detections.

Client Sample ID: EX9-SPOILS — **Lab Sample ID: 720-51739-10**

No Detections.

Client Sample ID: EX10-SPOILS — **Lab Sample ID: 720-51739-15**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-4

Client Sample ID: EX11-SPOILS
Date Collected: 08/19/13 13:30
Date Received: 08/19/13 16:10

Lab Sample ID: 720-51739-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Acetone	ND		45		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Benzene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Dichlorobromomethane	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Bromobenzene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Chlorobromomethane	ND		18		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Bromoform	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Bromomethane	ND		9.1		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
2-Butanone (MEK)	ND		45		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
n-Butylbenzene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
sec-Butylbenzene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
tert-Butylbenzene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Carbon disulfide	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Carbon tetrachloride	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Chlorobenzene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Chloroethane	ND		9.1		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Chloroform	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Chloromethane	ND		9.1		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
2-Chlorotoluene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
4-Chlorotoluene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Chlorodibromomethane	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,2-Dichlorobenzene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,3-Dichlorobenzene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,4-Dichlorobenzene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,3-Dichloropropane	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,1-Dichloropropene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,2-Dibromo-3-Chloropropane	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Ethylene Dibromide	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Dibromomethane	ND		9.1		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Dichlorodifluoromethane	ND		9.1		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,1-Dichloroethane	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,2-Dichloroethane	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,1-Dichloroethene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
cis-1,2-Dichloroethene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
trans-1,2-Dichloroethene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,2-Dichloropropane	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
cis-1,3-Dichloropropene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
trans-1,3-Dichloropropene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Ethylbenzene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Hexachlorobutadiene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
2-Hexanone	ND		45		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Isopropylbenzene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
4-Isopropyltoluene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Methylene Chloride	ND		9.1		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
4-Methyl-2-pentanone (MIBK)	ND		45		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Naphthalene	ND		9.1		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
N-Propylbenzene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Styrene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,1,1,2-Tetrachloroethane	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-4

Client Sample ID: EX11-SPOILS
Date Collected: 08/19/13 13:30
Date Received: 08/19/13 16:10

Lab Sample ID: 720-51739-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Tetrachloroethene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Toluene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,2,3-Trichlorobenzene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,2,4-Trichlorobenzene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,1,1-Trichloroethane	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,1,2-Trichloroethane	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Trichloroethene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Trichlorofluoromethane	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,2,3-Trichloropropane	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,2,4-Trimethylbenzene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
1,3,5-Trimethylbenzene	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Vinyl acetate	ND		45		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Vinyl chloride	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
Xylenes, Total	ND		9.1		ug/Kg		08/30/13 19:08	08/30/13 21:48	1
2,2-Dichloropropane	ND		4.5		ug/Kg		08/30/13 19:08	08/30/13 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*85*		*45 - 131*	*08/30/13 10:00*	*08/30/13 16:26*	*1*
4-Bromofluorobenzene	*91*		*45 - 131*	*08/30/13 19:08*	*08/30/13 21:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*60 - 140*	*08/30/13 10:00*	*08/30/13 16:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 140*	*08/30/13 19:08*	*08/30/13 21:48*	*1*
Toluene-d8 (Surr)	*89*		*58 - 140*	*08/30/13 10:00*	*08/30/13 16:26*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*08/30/13 19:08*	*08/30/13 21:48*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-4

Client Sample ID: EX9-SPOILS
Date Collected: 08/19/13 13:50
Date Received: 08/19/13 16:10

Lab Sample ID: 720-51739-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Acetone	ND		47		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Benzene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Dichlorobromomethane	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Bromobenzene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Chlorobromomethane	ND		19		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Bromoform	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Bromomethane	ND		9.4		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
2-Butanone (MEK)	ND		47		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
n-Butylbenzene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
sec-Butylbenzene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
tert-Butylbenzene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Carbon disulfide	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Carbon tetrachloride	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Chlorobenzene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Chloroethane	ND		9.4		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Chloroform	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Chloromethane	ND		9.4		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
2-Chlorotoluene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
4-Chlorotoluene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Chlorodibromomethane	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,2-Dichlorobenzene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,3-Dichlorobenzene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,4-Dichlorobenzene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,3-Dichloropropane	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,1-Dichloropropene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,2-Dibromo-3-Chloropropane	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Ethylene Dibromide	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Dibromomethane	ND		9.4		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Dichlorodifluoromethane	ND		9.4		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,1-Dichloroethane	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,2-Dichloroethane	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,1-Dichloroethene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,2-Dichloropropane	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Ethylbenzene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Hexachlorobutadiene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
2-Hexanone	ND		47		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Isopropylbenzene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
4-Isopropyltoluene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Methylene Chloride	ND		9.4		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
4-Methyl-2-pentanone (MIBK)	ND		47		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Naphthalene	ND		9.4		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
N-Propylbenzene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Styrene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-4

Client Sample ID: EX9-SPOILS
Date Collected: 08/19/13 13:50
Date Received: 08/19/13 16:10

Lab Sample ID: 720-51739-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Tetrachloroethene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Toluene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,2,3-Trichlorobenzene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,2,4-Trichlorobenzene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Trichloroethene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Trichlorofluoromethane	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,2,3-Trichloropropane	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,2,4-Trimethylbenzene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Vinyl acetate	ND		47		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Vinyl chloride	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
Xylenes, Total	ND		9.4		ug/Kg		08/30/13 10:00	08/30/13 16:56	1
2,2-Dichloropropane	ND		4.7		ug/Kg		08/30/13 10:00	08/30/13 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*80*		*45 - 131*	*08/30/13 10:00*	*08/30/13 16:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*	*08/30/13 10:00*	*08/30/13 16:56*	*1*
Toluene-d8 (Surr)	*83*		*58 - 140*	*08/30/13 10:00*	*08/30/13 16:56*	*1*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-4

Client Sample ID: EX10-SPOILS
Date Collected: 08/19/13 13:40
Date Received: 08/19/13 16:10

Lab Sample ID: 720-51739-15
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Acetone	ND		49		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Benzene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Dichlorobromomethane	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Bromobenzene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Chlorobromomethane	ND		20		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Bromoform	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Bromomethane	ND		9.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
2-Butanone (MEK)	ND		49		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
n-Butylbenzene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
sec-Butylbenzene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
tert-Butylbenzene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Carbon disulfide	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Carbon tetrachloride	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Chlorobenzene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Chloroethane	ND		9.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Chloroform	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Chloromethane	ND		9.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
2-Chlorotoluene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
4-Chlorotoluene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Chlorodibromomethane	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,3-Dichloropropane	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,1-Dichloropropene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Ethylene Dibromide	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Dibromomethane	ND		9.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,1-Dichloroethane	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,2-Dichloroethane	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,1-Dichloroethene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,2-Dichloropropane	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Ethylbenzene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Hexachlorobutadiene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
2-Hexanone	ND		49		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Isopropylbenzene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
4-Isopropyltoluene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Methylene Chloride	ND		9.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Naphthalene	ND		9.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
N-Propylbenzene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Styrene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-4

Client Sample ID: EX10-SPOILS
Date Collected: 08/19/13 13:40
Date Received: 08/19/13 16:10

Lab Sample ID: 720-51739-15
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Tetrachloroethene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Toluene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Trichloroethene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Trichlorofluoromethane	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Vinyl acetate	ND		49		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Vinyl chloride	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
Xylenes, Total	ND		9.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1
2,2-Dichloropropane	ND		4.9		ug/Kg		08/30/13 19:08	08/30/13 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*69*		*45 - 131*	*08/30/13 10:00*	*08/30/13 17:25*	*1*
4-Bromofluorobenzene	*85*		*45 - 131*	*08/30/13 19:08*	*08/30/13 22:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*60 - 140*	*08/30/13 10:00*	*08/30/13 17:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 140*	*08/30/13 19:08*	*08/30/13 22:16*	*1*
Toluene-d8 (Surr)	*78*		*58 - 140*	*08/30/13 10:00*	*08/30/13 17:25*	*1*
Toluene-d8 (Surr)	*91*		*58 - 140*	*08/30/13 19:08*	*08/30/13 22:16*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-143361/4
Matrix: Solid
Analysis Batch: 143361

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			08/30/13 08:51	1
Acetone	ND		50		ug/Kg			08/30/13 08:51	1
Benzene	ND		5.0		ug/Kg			08/30/13 08:51	1
Dichlorobromomethane	ND		5.0		ug/Kg			08/30/13 08:51	1
Bromobenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
Chlorobromomethane	ND		20		ug/Kg			08/30/13 08:51	1
Bromoform	ND		5.0		ug/Kg			08/30/13 08:51	1
Bromomethane	ND		10		ug/Kg			08/30/13 08:51	1
2-Butanone (MEK)	ND		50		ug/Kg			08/30/13 08:51	1
n-Butylbenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
sec-Butylbenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
tert-Butylbenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
Carbon disulfide	ND		5.0		ug/Kg			08/30/13 08:51	1
Carbon tetrachloride	ND		5.0		ug/Kg			08/30/13 08:51	1
Chlorobenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
Chloroethane	ND		10		ug/Kg			08/30/13 08:51	1
Chloroform	ND		5.0		ug/Kg			08/30/13 08:51	1
Chloromethane	ND		10		ug/Kg			08/30/13 08:51	1
2-Chlorotoluene	ND		5.0		ug/Kg			08/30/13 08:51	1
4-Chlorotoluene	ND		5.0		ug/Kg			08/30/13 08:51	1
Chlorodibromomethane	ND		5.0		ug/Kg			08/30/13 08:51	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
1,3-Dichloropropane	ND		5.0		ug/Kg			08/30/13 08:51	1
1,1-Dichloropropene	ND		5.0		ug/Kg			08/30/13 08:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			08/30/13 08:51	1
Ethylene Dibromide	ND		5.0		ug/Kg			08/30/13 08:51	1
Dibromomethane	ND		10		ug/Kg			08/30/13 08:51	1
Dichlorodifluoromethane	ND		10		ug/Kg			08/30/13 08:51	1
1,1-Dichloroethane	ND		5.0		ug/Kg			08/30/13 08:51	1
1,2-Dichloroethane	ND		5.0		ug/Kg			08/30/13 08:51	1
1,1-Dichloroethene	ND		5.0		ug/Kg			08/30/13 08:51	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			08/30/13 08:51	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			08/30/13 08:51	1
1,2-Dichloropropane	ND		5.0		ug/Kg			08/30/13 08:51	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			08/30/13 08:51	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			08/30/13 08:51	1
Ethylbenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
Hexachlorobutadiene	ND		5.0		ug/Kg			08/30/13 08:51	1
2-Hexanone	ND		50		ug/Kg			08/30/13 08:51	1
Isopropylbenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
4-Isopropyltoluene	ND		5.0		ug/Kg			08/30/13 08:51	1
Methylene Chloride	ND		10		ug/Kg			08/30/13 08:51	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			08/30/13 08:51	1
Naphthalene	ND		10		ug/Kg			08/30/13 08:51	1
N-Propylbenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
Styrene	ND		5.0		ug/Kg			08/30/13 08:51	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-143361/4
Matrix: Solid
Analysis Batch: 143361

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			08/30/13 08:51	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			08/30/13 08:51	1
Tetrachloroethene	ND		5.0		ug/Kg			08/30/13 08:51	1
Toluene	ND		5.0		ug/Kg			08/30/13 08:51	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			08/30/13 08:51	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			08/30/13 08:51	1
Trichloroethene	ND		5.0		ug/Kg			08/30/13 08:51	1
Trichlorofluoromethane	ND		5.0		ug/Kg			08/30/13 08:51	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			08/30/13 08:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			08/30/13 08:51	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			08/30/13 08:51	1
Vinyl acetate	ND		50		ug/Kg			08/30/13 08:51	1
Vinyl chloride	ND		5.0		ug/Kg			08/30/13 08:51	1
Xylenes, Total	ND		10		ug/Kg			08/30/13 08:51	1
2,2-Dichloropropane	ND		5.0		ug/Kg			08/30/13 08:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*83*		*45 - 131*		*08/30/13 08:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*		*08/30/13 08:51*	*1*
Toluene-d8 (Surr)	*89*		*58 - 140*		*08/30/13 08:51*	*1*

Lab Sample ID: LCS 720-143361/5
Matrix: Solid
Analysis Batch: 143361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	47.7		ug/Kg		95	70 - 144
Acetone	250	230		ug/Kg		92	30 - 162
Benzene	50.0	47.4		ug/Kg		95	70 - 130
Dichlorobromomethane	50.0	49.7		ug/Kg		99	70 - 131
Bromobenzene	50.0	46.3		ug/Kg		93	70 - 130
Chlorobromomethane	50.0	46.0		ug/Kg		92	70 - 130
Bromoform	50.0	52.6		ug/Kg		105	59 - 158
Bromomethane	50.0	40.5		ug/Kg		81	59 - 132
2-Butanone (MEK)	250	261		ug/Kg		104	53 - 124
n-Butylbenzene	50.0	47.2		ug/Kg		94	70 - 142
sec-Butylbenzene	50.0	47.4		ug/Kg		95	70 - 136
tert-Butylbenzene	50.0	48.1		ug/Kg		96	70 - 130
Carbon disulfide	50.0	43.1		ug/Kg		86	60 - 140
Carbon tetrachloride	50.0	50.0		ug/Kg		100	70 - 138
Chlorobenzene	50.0	50.5		ug/Kg		101	70 - 130
Chloroethane	50.0	40.8		ug/Kg		82	65 - 130
Chloroform	50.0	47.4		ug/Kg		95	77 - 127
Chloromethane	50.0	41.2		ug/Kg		82	55 - 140
2-Chlorotoluene	50.0	51.6		ug/Kg		103	70 - 138

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-143361/5
Matrix: Solid
Analysis Batch: 143361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	50.0	51.6		ug/Kg		103	70 - 136
Chlorodibromomethane	50.0	54.4		ug/Kg		109	70 - 146
1,2-Dichlorobenzene	50.0	46.6		ug/Kg		93	70 - 130
1,3-Dichlorobenzene	50.0	49.3		ug/Kg		99	70 - 131
1,4-Dichlorobenzene	50.0	47.7		ug/Kg		95	70 - 130
1,3-Dichloropropane	50.0	53.3		ug/Kg		107	70 - 140
1,1-Dichloropropene	50.0	50.2		ug/Kg		100	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.7		ug/Kg		97	60 - 145
Ethylene Dibromide	50.0	52.8		ug/Kg		106	70 - 140
Dibromomethane	50.0	46.7		ug/Kg		93	70 - 139
Dichlorodifluoromethane	50.0	44.7		ug/Kg		89	37 - 158
1,1-Dichloroethane	50.0	44.4		ug/Kg		89	70 - 130
1,2-Dichloroethane	50.0	48.7		ug/Kg		97	70 - 130
1,1-Dichloroethene	50.0	41.6		ug/Kg		83	76 - 122
cis-1,2-Dichloroethene	50.0	47.7		ug/Kg		95	70 - 138
trans-1,2-Dichloroethene	50.0	42.8		ug/Kg		86	67 - 130
1,2-Dichloropropane	50.0	48.7		ug/Kg		97	73 - 127
cis-1,3-Dichloropropene	50.0	54.4		ug/Kg		109	68 - 147
trans-1,3-Dichloropropene	50.0	53.9		ug/Kg		108	70 - 136
Ethylbenzene	50.0	50.3		ug/Kg		101	80 - 137
Hexachlorobutadiene	50.0	42.1		ug/Kg		84	70 - 132
2-Hexanone	250	271		ug/Kg		108	44 - 133
Isopropylbenzene	50.0	53.3		ug/Kg		107	88 - 128
4-Isopropyltoluene	50.0	46.8		ug/Kg		94	70 - 133
Methylene Chloride	50.0	43.1		ug/Kg		86	70 - 134
4-Methyl-2-pentanone (MIBK)	250	281		ug/Kg		112	60 - 160
Naphthalene	50.0	41.9		ug/Kg		84	60 - 147
N-Propylbenzene	50.0	47.4		ug/Kg		95	70 - 130
Styrene	50.0	55.6		ug/Kg		111	70 - 130
1,1,1,2-Tetrachloroethane	50.0	52.3		ug/Kg		105	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/Kg		102	70 - 146
Tetrachloroethene	50.0	50.7		ug/Kg		101	70 - 132
Toluene	50.0	47.9		ug/Kg		96	80 - 128
1,2,3-Trichlorobenzene	50.0	45.6		ug/Kg		91	60 - 140
1,2,4-Trichlorobenzene	50.0	45.1		ug/Kg		90	60 - 140
1,1,1-Trichloroethane	50.0	48.4		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	50.0	51.4		ug/Kg		103	70 - 130
Trichloroethene	50.0	48.1		ug/Kg		96	70 - 133
Trichlorofluoromethane	50.0	41.8		ug/Kg		84	60 - 140
1,2,3-Trichloropropane	50.0	50.7		ug/Kg		101	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.6		ug/Kg		89	60 - 140
1,2,4-Trimethylbenzene	50.0	50.7		ug/Kg		101	70 - 130
1,3,5-Trimethylbenzene	50.0	47.6		ug/Kg		95	70 - 131
Vinyl acetate	50.0	62.3		ug/Kg		125	38 - 176
Vinyl chloride	50.0	36.7		ug/Kg		73	58 - 125
m-Xylene & p-Xylene	100	99.3		ug/Kg		99	70 - 146
o-Xylene	50.0	52.3		ug/Kg		105	70 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-143361/5
Matrix: Solid
Analysis Batch: 143361

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	52.4		ug/Kg		105	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: LCSD 720-143361/6
Matrix: Solid
Analysis Batch: 143361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	49.5		ug/Kg		99	70 - 144	4	20
Acetone	250	238		ug/Kg		95	30 - 162	4	30
Benzene	50.0	46.7		ug/Kg		93	70 - 130	2	20
Dichlorobromomethane	50.0	48.8		ug/Kg		98	70 - 131	2	20
Bromobenzene	50.0	45.5		ug/Kg		91	70 - 130	2	20
Chlorobromomethane	50.0	45.9		ug/Kg		92	70 - 130	0	20
Bromoform	50.0	52.3		ug/Kg		105	59 - 158	0	20
Bromomethane	50.0	41.9		ug/Kg		84	59 - 132	3	20
2-Butanone (MEK)	250	272		ug/Kg		109	53 - 124	4	20
n-Butylbenzene	50.0	47.3		ug/Kg		95	70 - 142	0	20
sec-Butylbenzene	50.0	46.9		ug/Kg		94	70 - 136	1	20
tert-Butylbenzene	50.0	47.7		ug/Kg		95	70 - 130	1	20
Carbon disulfide	50.0	43.5		ug/Kg		87	60 - 140	1	20
Carbon tetrachloride	50.0	49.6		ug/Kg		99	70 - 138	1	20
Chlorobenzene	50.0	49.7		ug/Kg		99	70 - 130	2	20
Chloroethane	50.0	42.3		ug/Kg		85	65 - 130	4	20
Chloroform	50.0	47.2		ug/Kg		94	77 - 127	0	20
Chloromethane	50.0	43.3		ug/Kg		87	55 - 140	5	20
2-Chlorotoluene	50.0	50.5		ug/Kg		101	70 - 138	2	20
4-Chlorotoluene	50.0	50.1		ug/Kg		100	70 - 136	3	20
Chlorodibromomethane	50.0	53.5		ug/Kg		107	70 - 146	2	20
1,2-Dichlorobenzene	50.0	46.1		ug/Kg		92	70 - 130	1	20
1,3-Dichlorobenzene	50.0	48.4		ug/Kg		97	70 - 131	2	20
1,4-Dichlorobenzene	50.0	47.6		ug/Kg		95	70 - 130	0	20
1,3-Dichloropropane	50.0	51.5		ug/Kg		103	70 - 140	3	20
1,1-Dichloropropene	50.0	49.3		ug/Kg		99	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	49.4		ug/Kg		99	60 - 145	1	20
Ethylene Dibromide	50.0	51.2		ug/Kg		102	70 - 140	3	20
Dibromomethane	50.0	46.0		ug/Kg		92	70 - 139	1	20
Dichlorodifluoromethane	50.0	45.2		ug/Kg		90	37 - 158	1	20
1,1-Dichloroethane	50.0	44.5		ug/Kg		89	70 - 130	0	20
1,2-Dichloroethane	50.0	48.9		ug/Kg		98	70 - 130	0	20
1,1-Dichloroethene	50.0	42.6		ug/Kg		85	76 - 122	2	20
cis-1,2-Dichloroethene	50.0	47.0		ug/Kg		94	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	44.0		ug/Kg		88	67 - 130	3	20
1,2-Dichloropropane	50.0	47.6		ug/Kg		95	73 - 127	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-143361/6
Matrix: Solid
Analysis Batch: 143361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	50.0	53.7		ug/Kg		107	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	52.8		ug/Kg		106	70 - 136	2	20
Ethylbenzene	50.0	49.9		ug/Kg		100	80 - 137	1	20
Hexachlorobutadiene	50.0	45.0		ug/Kg		90	70 - 132	7	20
2-Hexanone	250	285		ug/Kg		114	44 - 133	5	20
Isopropylbenzene	50.0	52.3		ug/Kg		105	88 - 128	2	20
4-Isopropyltoluene	50.0	46.3		ug/Kg		93	70 - 133	1	20
Methylene Chloride	50.0	44.0		ug/Kg		88	70 - 134	2	20
4-Methyl-2-pentanone (MIBK)	250	293		ug/Kg		117	60 - 160	4	20
Naphthalene	50.0	43.7		ug/Kg		87	60 - 147	4	20
N-Propylbenzene	50.0	46.6		ug/Kg		93	70 - 130	2	20
Styrene	50.0	55.0		ug/Kg		110	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	51.2		ug/Kg		102	70 - 130	2	20
1,1,2,2-Tetrachloroethane	50.0	50.2		ug/Kg		100	70 - 146	1	20
Tetrachloroethene	50.0	49.6		ug/Kg		99	70 - 132	2	20
Toluene	50.0	47.0		ug/Kg		94	80 - 128	2	20
1,2,3-Trichlorobenzene	50.0	46.9		ug/Kg		94	60 - 140	3	20
1,2,4-Trichlorobenzene	50.0	46.1		ug/Kg		92	60 - 140	2	20
1,1,1-Trichloroethane	50.0	47.6		ug/Kg		95	70 - 130	2	20
1,1,2-Trichloroethane	50.0	51.3		ug/Kg		103	70 - 130	0	20
Trichloroethene	50.0	46.5		ug/Kg		93	70 - 133	3	20
Trichlorofluoromethane	50.0	42.7		ug/Kg		85	60 - 140	2	20
1,2,3-Trichloropropane	50.0	50.1		ug/Kg		100	70 - 146	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.4		ug/Kg		91	60 - 140	2	20
1,2,4-Trimethylbenzene	50.0	49.9		ug/Kg		100	70 - 130	2	20
1,3,5-Trimethylbenzene	50.0	46.5		ug/Kg		93	70 - 131	2	20
Vinyl acetate	50.0	65.2		ug/Kg		130	38 - 176	5	20
Vinyl chloride	50.0	37.2		ug/Kg		74	58 - 125	1	20
m-Xylene & p-Xylene	100	97.4		ug/Kg		97	70 - 146	2	20
o-Xylene	50.0	51.4		ug/Kg		103	70 - 140	2	20
2,2-Dichloropropane	50.0	52.2		ug/Kg		104	70 - 162	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*
Toluene-d8 (Surr)	*96*		*58 - 140*

Lab Sample ID: MB 720-143407/5
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			08/30/13 17:31	1
Acetone	ND		50		ug/Kg			08/30/13 17:31	1
Benzene	ND		5.0		ug/Kg			08/30/13 17:31	1
Dichlorobromomethane	ND		5.0		ug/Kg			08/30/13 17:31	1
Bromobenzene	ND		5.0		ug/Kg			08/30/13 17:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-143407/5
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobromomethane	ND		20		ug/Kg			08/30/13 17:31	1
Bromoform	ND		5.0		ug/Kg			08/30/13 17:31	1
Bromomethane	ND		10		ug/Kg			08/30/13 17:31	1
2-Butanone (MEK)	ND		50		ug/Kg			08/30/13 17:31	1
n-Butylbenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
sec-Butylbenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
tert-Butylbenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
Carbon disulfide	ND		5.0		ug/Kg			08/30/13 17:31	1
Carbon tetrachloride	ND		5.0		ug/Kg			08/30/13 17:31	1
Chlorobenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
Chloroethane	ND		10		ug/Kg			08/30/13 17:31	1
Chloroform	ND		5.0		ug/Kg			08/30/13 17:31	1
Chloromethane	ND		10		ug/Kg			08/30/13 17:31	1
2-Chlorotoluene	ND		5.0		ug/Kg			08/30/13 17:31	1
4-Chlorotoluene	ND		5.0		ug/Kg			08/30/13 17:31	1
Chlorodibromomethane	ND		5.0		ug/Kg			08/30/13 17:31	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
1,3-Dichloropropane	ND		5.0		ug/Kg			08/30/13 17:31	1
1,1-Dichloropropene	ND		5.0		ug/Kg			08/30/13 17:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			08/30/13 17:31	1
Ethylene Dibromide	ND		5.0		ug/Kg			08/30/13 17:31	1
Dibromomethane	ND		10		ug/Kg			08/30/13 17:31	1
Dichlorodifluoromethane	ND		10		ug/Kg			08/30/13 17:31	1
1,1-Dichloroethane	ND		5.0		ug/Kg			08/30/13 17:31	1
1,2-Dichloroethane	ND		5.0		ug/Kg			08/30/13 17:31	1
1,1-Dichloroethene	ND		5.0		ug/Kg			08/30/13 17:31	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			08/30/13 17:31	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			08/30/13 17:31	1
1,2-Dichloropropane	ND		5.0		ug/Kg			08/30/13 17:31	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			08/30/13 17:31	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			08/30/13 17:31	1
Ethylbenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
Hexachlorobutadiene	ND		5.0		ug/Kg			08/30/13 17:31	1
2-Hexanone	ND		50		ug/Kg			08/30/13 17:31	1
Isopropylbenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
4-Isopropyltoluene	ND		5.0		ug/Kg			08/30/13 17:31	1
Methylene Chloride	ND		10		ug/Kg			08/30/13 17:31	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			08/30/13 17:31	1
Naphthalene	ND		10		ug/Kg			08/30/13 17:31	1
N-Propylbenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
Styrene	ND		5.0		ug/Kg			08/30/13 17:31	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			08/30/13 17:31	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			08/30/13 17:31	1
Tetrachloroethene	ND		5.0		ug/Kg			08/30/13 17:31	1
Toluene	ND		5.0		ug/Kg			08/30/13 17:31	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			08/30/13 17:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-143407/5
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			08/30/13 17:31	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			08/30/13 17:31	1
Trichloroethene	ND		5.0		ug/Kg			08/30/13 17:31	1
Trichlorofluoromethane	ND		5.0		ug/Kg			08/30/13 17:31	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			08/30/13 17:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			08/30/13 17:31	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			08/30/13 17:31	1
Vinyl acetate	ND		50		ug/Kg			08/30/13 17:31	1
Vinyl chloride	ND		5.0		ug/Kg			08/30/13 17:31	1
Xylenes, Total	ND		10		ug/Kg			08/30/13 17:31	1
2,2-Dichloropropane	ND		5.0		ug/Kg			08/30/13 17:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*45 - 131*		*08/30/13 17:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 140*		*08/30/13 17:31*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*		*08/30/13 17:31*	*1*

Lab Sample ID: LCS 720-143407/6
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	46.5		ug/Kg		93	70 - 144
Acetone	250	216		ug/Kg		87	30 - 162
Benzene	50.0	45.6		ug/Kg		91	70 - 130
Dichlorobromomethane	50.0	50.4		ug/Kg		101	70 - 131
Bromobenzene	50.0	48.4		ug/Kg		97	70 - 130
Chlorobromomethane	50.0	49.6		ug/Kg		99	70 - 130
Bromoform	50.0	58.7		ug/Kg		117	59 - 158
Bromomethane	50.0	43.1		ug/Kg		86	59 - 132
2-Butanone (MEK)	250	217		ug/Kg		87	53 - 124
n-Butylbenzene	50.0	48.0		ug/Kg		96	70 - 142
sec-Butylbenzene	50.0	47.1		ug/Kg		94	70 - 136
tert-Butylbenzene	50.0	46.4		ug/Kg		93	70 - 130
Carbon disulfide	50.0	44.2		ug/Kg		88	60 - 140
Carbon tetrachloride	50.0	46.8		ug/Kg		94	70 - 138
Chlorobenzene	50.0	48.0		ug/Kg		96	70 - 130
Chloroethane	50.0	41.6		ug/Kg		83	65 - 130
Chloroform	50.0	45.6		ug/Kg		91	77 - 127
Chloromethane	50.0	38.8		ug/Kg		78	55 - 140
2-Chlorotoluene	50.0	46.5		ug/Kg		93	70 - 138
4-Chlorotoluene	50.0	45.5		ug/Kg		91	70 - 136
Chlorodibromomethane	50.0	55.9		ug/Kg		112	70 - 146
1,2-Dichlorobenzene	50.0	50.1		ug/Kg		100	70 - 130
1,3-Dichlorobenzene	50.0	51.9		ug/Kg		104	70 - 131
1,4-Dichlorobenzene	50.0	50.9		ug/Kg		102	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-143407/6
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichloropropane	50.0	48.8		ug/Kg		98	70 - 140
1,1-Dichloropropene	50.0	47.1		ug/Kg		94	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	54.1		ug/Kg		108	60 - 145
Ethylene Dibromide	50.0	52.4		ug/Kg		105	70 - 140
Dibromomethane	50.0	48.0		ug/Kg		96	70 - 139
Dichlorodifluoromethane	50.0	45.6		ug/Kg		91	37 - 158
1,1-Dichloroethane	50.0	43.2		ug/Kg		86	70 - 130
1,2-Dichloroethane	50.0	44.4		ug/Kg		89	70 - 130
1,1-Dichloroethene	50.0	42.8		ug/Kg		86	76 - 122
cis-1,2-Dichloroethene	50.0	45.0		ug/Kg		90	70 - 138
trans-1,2-Dichloroethene	50.0	46.3		ug/Kg		93	67 - 130
1,2-Dichloropropane	50.0	47.9		ug/Kg		96	73 - 127
cis-1,3-Dichloropropene	50.0	53.4		ug/Kg		107	68 - 147
trans-1,3-Dichloropropene	50.0	53.4		ug/Kg		107	70 - 136
Ethylbenzene	50.0	44.5		ug/Kg		89	80 - 137
Hexachlorobutadiene	50.0	47.1		ug/Kg		94	70 - 132
2-Hexanone	250	233		ug/Kg		93	44 - 133
Isopropylbenzene	50.0	49.4		ug/Kg		99	88 - 128
4-Isopropyltoluene	50.0	47.2		ug/Kg		94	70 - 133
Methylene Chloride	50.0	49.2		ug/Kg		98	70 - 134
4-Methyl-2-pentanone (MIBK)	250	244		ug/Kg		97	60 - 160
Naphthalene	50.0	51.3		ug/Kg		103	60 - 147
N-Propylbenzene	50.0	47.9		ug/Kg		96	70 - 130
Styrene	50.0	52.4		ug/Kg		105	70 - 130
1,1,1,2-Tetrachloroethane	50.0	53.7		ug/Kg		107	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.9		ug/Kg		100	70 - 146
Tetrachloroethene	50.0	50.7		ug/Kg		101	70 - 132
Toluene	50.0	45.1		ug/Kg		90	80 - 128
1,2,3-Trichlorobenzene	50.0	49.9		ug/Kg		100	60 - 140
1,2,4-Trichlorobenzene	50.0	51.3		ug/Kg		103	60 - 140
1,1,1-Trichloroethane	50.0	44.5		ug/Kg		89	70 - 130
1,1,2-Trichloroethane	50.0	53.9		ug/Kg		108	70 - 130
Trichloroethene	50.0	49.9		ug/Kg		100	70 - 133
Trichlorofluoromethane	50.0	44.6		ug/Kg		89	60 - 140
1,2,3-Trichloropropane	50.0	46.9		ug/Kg		94	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.3		ug/Kg		93	60 - 140
1,2,4-Trimethylbenzene	50.0	48.9		ug/Kg		98	70 - 130
1,3,5-Trimethylbenzene	50.0	47.6		ug/Kg		95	70 - 131
Vinyl acetate	50.0	60.0		ug/Kg		120	38 - 176
Vinyl chloride	50.0	39.8		ug/Kg		80	58 - 125
m-Xylene & p-Xylene	100	93.7		ug/Kg		94	70 - 146
o-Xylene	50.0	48.2		ug/Kg		96	70 - 140
2,2-Dichloropropane	50.0	47.1		ug/Kg		94	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 140*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-143407/6
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	97		58 - 140

Lab Sample ID: LCSD 720-143407/7
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether			50.0	49.8		ug/Kg		100	70 - 144	7	20
Acetone			250	255		ug/Kg		102	30 - 162	16	30
Benzene			50.0	45.9		ug/Kg		92	70 - 130	1	20
Dichlorobromomethane			50.0	52.2		ug/Kg		104	70 - 131	3	20
Bromobenzene			50.0	48.4		ug/Kg		97	70 - 130	0	20
Chlorobromomethane			50.0	51.6		ug/Kg		103	70 - 130	4	20
Bromoform			50.0	62.4		ug/Kg		125	59 - 158	6	20
Bromomethane			50.0	42.1		ug/Kg		84	59 - 132	2	20
2-Butanone (MEK)			250	230		ug/Kg		92	53 - 124	6	20
n-Butylbenzene			50.0	47.8		ug/Kg		96	70 - 142	1	20
sec-Butylbenzene			50.0	46.5		ug/Kg		93	70 - 136	1	20
tert-Butylbenzene			50.0	45.9		ug/Kg		92	70 - 130	1	20
Carbon disulfide			50.0	43.7		ug/Kg		87	60 - 140	1	20
Carbon tetrachloride			50.0	47.0		ug/Kg		94	70 - 138	0	20
Chlorobenzene			50.0	49.0		ug/Kg		98	70 - 130	2	20
Chloroethane			50.0	41.1		ug/Kg		82	65 - 130	1	20
Chloroform			50.0	47.3		ug/Kg		95	77 - 127	4	20
Chloromethane			50.0	39.6		ug/Kg		79	55 - 140	2	20
2-Chlorotoluene			50.0	46.5		ug/Kg		93	70 - 138	0	20
4-Chlorotoluene			50.0	45.5		ug/Kg		91	70 - 136	0	20
Chlorodibromomethane			50.0	58.5		ug/Kg		117	70 - 146	5	20
1,2-Dichlorobenzene			50.0	51.1		ug/Kg		102	70 - 130	2	20
1,3-Dichlorobenzene			50.0	52.2		ug/Kg		104	70 - 131	0	20
1,4-Dichlorobenzene			50.0	51.7		ug/Kg		103	70 - 130	2	20
1,3-Dichloropropane			50.0	50.7		ug/Kg		101	70 - 140	4	20
1,1-Dichloropropene			50.0	46.8		ug/Kg		94	70 - 130	1	20
1,2-Dibromo-3-Chloropropane			50.0	57.7		ug/Kg		115	60 - 145	6	20
Ethylene Dibromide			50.0	56.7		ug/Kg		113	70 - 140	8	20
Dibromomethane			50.0	49.9		ug/Kg		100	70 - 139	4	20
Dichlorodifluoromethane			50.0	45.9		ug/Kg		92	37 - 158	1	20
1,1-Dichloroethane			50.0	43.4		ug/Kg		87	70 - 130	0	20
1,2-Dichloroethane			50.0	46.1		ug/Kg		92	70 - 130	4	20
1,1-Dichloroethene			50.0	44.0		ug/Kg		88	76 - 122	3	20
cis-1,2-Dichloroethene			50.0	45.7		ug/Kg		91	70 - 138	2	20
trans-1,2-Dichloroethene			50.0	46.6		ug/Kg		93	67 - 130	1	20
1,2-Dichloropropane			50.0	48.4		ug/Kg		97	73 - 127	1	20
cis-1,3-Dichloropropene			50.0	54.3		ug/Kg		109	68 - 147	2	20
trans-1,3-Dichloropropene			50.0	54.3		ug/Kg		109	70 - 136	2	20
Ethylbenzene			50.0	45.5		ug/Kg		91	80 - 137	2	20
Hexachlorobutadiene			50.0	47.2		ug/Kg		94	70 - 132	0	20
2-Hexanone			250	249		ug/Kg		100	44 - 133	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-143407/7
Matrix: Solid
Analysis Batch: 143407

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropylbenzene	50.0	50.2		ug/Kg		100	88 - 128	2	20
4-Isopropyltoluene	50.0	47.0		ug/Kg		94	70 - 133	0	20
Methylene Chloride	50.0	50.5		ug/Kg		101	70 - 134	3	20
4-Methyl-2-pentanone (MIBK)	250	262		ug/Kg		105	60 - 160	7	20
Naphthalene	50.0	53.2		ug/Kg		106	60 - 147	4	20
N-Propylbenzene	50.0	46.9		ug/Kg		94	70 - 130	2	20
Styrene	50.0	54.4		ug/Kg		109	70 - 130	4	20
1,1,1,2-Tetrachloroethane	50.0	55.2		ug/Kg		110	70 - 130	3	20
1,1,2,2-Tetrachloroethane	50.0	51.0		ug/Kg		102	70 - 146	2	20
Tetrachloroethene	50.0	50.7		ug/Kg		101	70 - 132	0	20
Toluene	50.0	46.3		ug/Kg		93	80 - 128	3	20
1,2,3-Trichlorobenzene	50.0	50.9		ug/Kg		102	60 - 140	2	20
1,2,4-Trichlorobenzene	50.0	51.8		ug/Kg		104	60 - 140	1	20
1,1,1-Trichloroethane	50.0	44.5		ug/Kg		89	70 - 130	0	20
1,1,2-Trichloroethane	50.0	56.3		ug/Kg		113	70 - 130	4	20
Trichloroethene	50.0	51.0		ug/Kg		102	70 - 133	2	20
Trichlorofluoromethane	50.0	44.7		ug/Kg		89	60 - 140	0	20
1,2,3-Trichloropropane	50.0	48.8		ug/Kg		98	70 - 146	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.8		ug/Kg		94	60 - 140	1	20
1,2,4-Trimethylbenzene	50.0	49.1		ug/Kg		98	70 - 130	0	20
1,3,5-Trimethylbenzene	50.0	47.0		ug/Kg		94	70 - 131	1	20
Vinyl acetate	50.0	60.2		ug/Kg		120	38 - 176	0	20
Vinyl chloride	50.0	38.6		ug/Kg		77	58 - 125	3	20
m-Xylene & p-Xylene	100	94.8		ug/Kg		95	70 - 146	1	20
o-Xylene	50.0	49.8		ug/Kg		100	70 - 140	3	20
2,2-Dichloropropane	50.0	45.7		ug/Kg		91	70 - 162	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-4

GC/MS VOA

Analysis Batch: 143361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-5	EX11-SPOILS	Total/NA	Solid	8260B	143379
720-51739-10	EX9-SPOILS	Total/NA	Solid	8260B	143379
720-51739-15	EX10-SPOILS	Total/NA	Solid	8260B	143379
LCS 720-143361/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-143361/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-143361/4	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 143379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-5	EX11-SPOILS	Total/NA	Solid	5030B	
720-51739-10	EX9-SPOILS	Total/NA	Solid	5030B	
720-51739-15	EX10-SPOILS	Total/NA	Solid	5030B	

Analysis Batch: 143407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-5	EX11-SPOILS	Total/NA	Solid	8260B	143432
720-51739-15	EX10-SPOILS	Total/NA	Solid	8260B	143432
LCS 720-143407/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-143407/7	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-143407/5	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 143432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-51739-5	EX11-SPOILS	Total/NA	Solid	5030B	
720-51739-15	EX10-SPOILS	Total/NA	Solid	5030B	

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-4

Client Sample ID: EX11-SPOILS

Lab Sample ID: 720-51739-5

Date Collected: 08/19/13 13:30

Matrix: Solid

Date Received: 08/19/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			143379	08/30/13 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B		1	143361	08/30/13 16:26	ASC	TAL PLS
Total/NA	Prep	5030B			143432	08/30/13 19:08	LPL	TAL PLS
Total/NA	Analysis	8260B		1	143407	08/30/13 21:48	ASC	TAL PLS

Client Sample ID: EX9-SPOILS

Lab Sample ID: 720-51739-10

Date Collected: 08/19/13 13:50

Matrix: Solid

Date Received: 08/19/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			143379	08/30/13 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B		1	143361	08/30/13 16:56	ASC	TAL PLS

Client Sample ID: EX10-SPOILS

Lab Sample ID: 720-51739-15

Date Collected: 08/19/13 13:40

Matrix: Solid

Date Received: 08/19/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			143379	08/30/13 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B		1	143361	08/30/13 17:25	ASC	TAL PLS
Total/NA	Prep	5030B			143432	08/30/13 19:08	LPL	TAL PLS
Total/NA	Analysis	8260B		1	143407	08/30/13 22:16	ASC	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-4

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-4

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-51739-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-51739-5	EX11-SPOILS	Solid	08/19/13 13:30	08/19/13 16:10
720-51739-10	EX9-SPOILS	Solid	08/19/13 13:50	08/19/13 16:10
720-51739-15	EX10-SPOILS	Solid	08/19/13 13:40	08/19/13 16:10

Sharma, Dimple 720-51739-4

From: Sebik, Joanna [JSebik@haleyaldrich.com]
Sent: Thursday, August 29, 2013 1:05 PM
To: Sharma, Dimple
Cc: Guthrie, Kristin; Miller, Katherine; Minor, Pam
Subject: Additional Analyses for Hanson samples from 8/16 and 8/19

Dimple,

We just learned that the landfill accepting our soil waste requires VOC analysis by 8260. The relevant samples were submitted on 8/16 and 8/19 (these include the STLC samples requested yesterday). Would it be possible to run these samples for VOCs on a 48 hr TAT?

Samples are as follows:
720-51718-1 (8/16/13) - EX6-Spoils, EX7-Spoils
720-51729-1 (8/19/13) - EX3/4-Spoils, EX4-Spoils, EX5-Spoils, CS-Spoils
720-51739-1 (8/19/13) - EX9-Spoils, EX10-Spoils, EX11-Spoils

Thank you,

Joanna Sebik
Engineer
HALEY & ALDRICH
2033 North Main Street, Suite 309
Walnut Creek, CA 94596
Office: 925.949.1020
Cell: 925.357.7355
JSebik@HaleyAldrich.com
www.HaleyAldrich.com

720-51739 Chain of Custody

RUSH

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-51739-4

Login Number: 51739

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Bullock, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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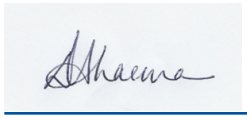
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-52116-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Kristin Guthrie



Authorized for release by:
9/13/2013 3:34:42 PM

Dimple Sharma, Project Manager I
dimple.sharma@testamericainc.com

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

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Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-52116-1

Comments
No additional comments.

Receipt
The samples were received on 9/5/2013 11:58 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 11.1º C.

GC/MS VOA
No analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: EX3-SPOILS COMPOSITE (720-52116-5).

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52116-1

Client Sample ID: EX3-SPOILS COMPOSITE

Lab Sample ID: 720-52116-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	130		5.0		mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	330		250		mg/Kg	5		8015B	Total/NA
Arsenic	3.5		3.5		mg/Kg	4		6010B	Total/NA
Barium	120		1.8		mg/Kg	4		6010B	Total/NA
Chromium	41		1.8		mg/Kg	4		6010B	Total/NA
Cobalt	9.3		0.71		mg/Kg	4		6010B	Total/NA
Copper	21		5.3		mg/Kg	4		6010B	Total/NA
Lead	7.7		1.8		mg/Kg	4		6010B	Total/NA
Nickel	62		1.8		mg/Kg	4		6010B	Total/NA
Vanadium	26		1.8		mg/Kg	4		6010B	Total/NA
Zinc	42		5.3		mg/Kg	4		6010B	Total/NA
Mercury	0.049		0.0090		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52116-1

Client Sample ID: EX3-SPOILS COMPOSITE
Date Collected: 09/05/13 09:35
Date Received: 09/05/13 11:58

Lab Sample ID: 720-52116-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Acetone	ND		50		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Benzene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Dichlorobromomethane	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Bromobenzene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Chlorobromomethane	ND		20		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Bromoform	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Bromomethane	ND		9.9		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
2-Butanone (MEK)	ND		50		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
n-Butylbenzene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
sec-Butylbenzene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
tert-Butylbenzene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Carbon disulfide	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Carbon tetrachloride	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Chlorobenzene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Chloroethane	ND		9.9		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Chloroform	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Chloromethane	ND		9.9		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
2-Chlorotoluene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
4-Chlorotoluene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Chlorodibromomethane	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,3-Dichloropropane	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,1-Dichloropropene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Ethylene Dibromide	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Dibromomethane	ND		9.9		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,1-Dichloroethane	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,2-Dichloroethane	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,1-Dichloroethene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,2-Dichloropropane	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Ethylbenzene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Hexachlorobutadiene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
2-Hexanone	ND		50		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Isopropylbenzene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
4-Isopropyltoluene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Methylene Chloride	ND		9.9		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Naphthalene	ND		9.9		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
N-Propylbenzene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Styrene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52116-1

Client Sample ID: EX3-SPOILS COMPOSITE — **Lab Sample ID: 720-52116-5**
Date Collected: 09/05/13 09:35 — **Matrix: Solid**
Date Received: 09/05/13 11:58

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Tetrachloroethene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Toluene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Trichloroethene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Trichlorofluoromethane	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Vinyl acetate	ND		50		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Vinyl chloride	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Xylenes, Total	ND		9.9		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
2,2-Dichloropropane	ND		5.0		ug/Kg		09/09/13 19:46	09/10/13 00:40	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		09/09/13 19:46	09/10/13 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*45 - 131*	*09/09/13 19:46*	*09/10/13 00:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*60 - 140*	*09/09/13 19:46*	*09/10/13 00:40*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*	*09/09/13 19:46*	*09/10/13 00:40*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**130**		5.0		mg/Kg		09/12/13 15:40	09/13/13 02:09	5
Motor Oil Range Organics [C24-C36]	**330**		250		mg/Kg		09/12/13 15:40	09/13/13 02:09	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*D X*	*40 - 130*	*09/12/13 15:40*	*09/13/13 02:09*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8		mg/Kg		09/10/13 21:28	09/11/13 17:59	4
Arsenic	**3.5**		3.5		mg/Kg		09/10/13 21:28	09/11/13 17:59	4
Barium	**120**		1.8		mg/Kg		09/10/13 21:28	09/11/13 17:59	4
Beryllium	ND		0.35		mg/Kg		09/10/13 21:28	09/11/13 17:59	4
Cadmium	ND		0.44		mg/Kg		09/10/13 21:28	09/11/13 17:59	4
Chromium	**41**		1.8		mg/Kg		09/10/13 21:28	09/11/13 17:59	4
Cobalt	**9.3**		0.71		mg/Kg		09/10/13 21:28	09/11/13 17:59	4
Copper	**21**		5.3		mg/Kg		09/10/13 21:28	09/11/13 17:59	4
Lead	**7.7**		1.8		mg/Kg		09/10/13 21:28	09/11/13 17:59	4
Molybdenum	ND		1.8		mg/Kg		09/10/13 21:28	09/11/13 17:59	4
Nickel	**62**		1.8		mg/Kg		09/10/13 21:28	09/11/13 17:59	4
Selenium	ND		3.5		mg/Kg		09/10/13 21:28	09/11/13 17:59	4
Silver	ND		0.88		mg/Kg		09/10/13 21:28	09/11/13 17:59	4
Thallium	ND		1.8		mg/Kg		09/10/13 21:28	09/11/13 17:59	4
Vanadium	**26**		1.8		mg/Kg		09/10/13 21:28	09/11/13 17:59	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52116-1

Client Sample ID: EX3-SPOILS COMPOSITE
Date Collected: 09/05/13 09:35
Date Received: 09/05/13 11:58

Lab Sample ID: 720-52116-5
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	42		5.3		mg/Kg		09/10/13 21:28	09/11/13 17:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049		0.0090		mg/Kg		09/10/13 20:11	09/11/13 10:13	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-143872/5
Matrix: Solid
Analysis Batch: 143872

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			09/09/13 19:36	1
Acetone	ND		50		ug/Kg			09/09/13 19:36	1
Benzene	ND		5.0		ug/Kg			09/09/13 19:36	1
Dichlorobromomethane	ND		5.0		ug/Kg			09/09/13 19:36	1
Bromobenzene	ND		5.0		ug/Kg			09/09/13 19:36	1
Chlorobromomethane	ND		20		ug/Kg			09/09/13 19:36	1
Bromoform	ND		5.0		ug/Kg			09/09/13 19:36	1
Bromomethane	ND		10		ug/Kg			09/09/13 19:36	1
2-Butanone (MEK)	ND		50		ug/Kg			09/09/13 19:36	1
n-Butylbenzene	ND		5.0		ug/Kg			09/09/13 19:36	1
sec-Butylbenzene	ND		5.0		ug/Kg			09/09/13 19:36	1
tert-Butylbenzene	ND		5.0		ug/Kg			09/09/13 19:36	1
Carbon disulfide	ND		5.0		ug/Kg			09/09/13 19:36	1
Carbon tetrachloride	ND		5.0		ug/Kg			09/09/13 19:36	1
Chlorobenzene	ND		5.0		ug/Kg			09/09/13 19:36	1
Chloroethane	ND		10		ug/Kg			09/09/13 19:36	1
Chloroform	ND		5.0		ug/Kg			09/09/13 19:36	1
Chloromethane	ND		10		ug/Kg			09/09/13 19:36	1
2-Chlorotoluene	ND		5.0		ug/Kg			09/09/13 19:36	1
4-Chlorotoluene	ND		5.0		ug/Kg			09/09/13 19:36	1
Chlorodibromomethane	ND		5.0		ug/Kg			09/09/13 19:36	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			09/09/13 19:36	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			09/09/13 19:36	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			09/09/13 19:36	1
1,3-Dichloropropane	ND		5.0		ug/Kg			09/09/13 19:36	1
1,1-Dichloropropene	ND		5.0		ug/Kg			09/09/13 19:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			09/09/13 19:36	1
Ethylene Dibromide	ND		5.0		ug/Kg			09/09/13 19:36	1
Dibromomethane	ND		10		ug/Kg			09/09/13 19:36	1
Dichlorodifluoromethane	ND		10		ug/Kg			09/09/13 19:36	1
1,1-Dichloroethane	ND		5.0		ug/Kg			09/09/13 19:36	1
1,2-Dichloroethane	ND		5.0		ug/Kg			09/09/13 19:36	1
1,1-Dichloroethene	ND		5.0		ug/Kg			09/09/13 19:36	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			09/09/13 19:36	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			09/09/13 19:36	1
1,2-Dichloropropane	ND		5.0		ug/Kg			09/09/13 19:36	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			09/09/13 19:36	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			09/09/13 19:36	1
Ethylbenzene	ND		5.0		ug/Kg			09/09/13 19:36	1
Hexachlorobutadiene	ND		5.0		ug/Kg			09/09/13 19:36	1
2-Hexanone	ND		50		ug/Kg			09/09/13 19:36	1
Isopropylbenzene	ND		5.0		ug/Kg			09/09/13 19:36	1
4-Isopropyltoluene	ND		5.0		ug/Kg			09/09/13 19:36	1
Methylene Chloride	ND		10		ug/Kg			09/09/13 19:36	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			09/09/13 19:36	1
Naphthalene	ND		10		ug/Kg			09/09/13 19:36	1
N-Propylbenzene	ND		5.0		ug/Kg			09/09/13 19:36	1
Styrene	ND		5.0		ug/Kg			09/09/13 19:36	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-143872/5
Matrix: Solid
Analysis Batch: 143872

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			09/09/13 19:36	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			09/09/13 19:36	1
Tetrachloroethene	ND		5.0		ug/Kg			09/09/13 19:36	1
Toluene	ND		5.0		ug/Kg			09/09/13 19:36	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			09/09/13 19:36	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			09/09/13 19:36	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			09/09/13 19:36	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			09/09/13 19:36	1
Trichloroethene	ND		5.0		ug/Kg			09/09/13 19:36	1
Trichlorofluoromethane	ND		5.0		ug/Kg			09/09/13 19:36	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			09/09/13 19:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			09/09/13 19:36	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			09/09/13 19:36	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			09/09/13 19:36	1
Vinyl acetate	ND		50		ug/Kg			09/09/13 19:36	1
Vinyl chloride	ND		5.0		ug/Kg			09/09/13 19:36	1
Xylenes, Total	ND		10		ug/Kg			09/09/13 19:36	1
2,2-Dichloropropane	ND		5.0		ug/Kg			09/09/13 19:36	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			09/09/13 19:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*45 - 131*		*09/09/13 19:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 140*		*09/09/13 19:36*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*		*09/09/13 19:36*	*1*

Lab Sample ID: LCS 720-143872/6
Matrix: Solid
Analysis Batch: 143872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	58.4		ug/Kg		117	70 - 144
Acetone	250	259		ug/Kg		104	30 - 162
Benzene	50.0	48.7		ug/Kg		97	70 - 130
Dichlorobromomethane	50.0	57.8		ug/Kg		116	70 - 131
Bromobenzene	50.0	50.0		ug/Kg		100	70 - 130
Chlorobromomethane	50.0	53.6		ug/Kg		107	70 - 130
Bromoform	50.0	62.2		ug/Kg		124	59 - 158
Bromomethane	50.0	41.8		ug/Kg		84	59 - 132
2-Butanone (MEK)	250	278		ug/Kg		111	53 - 124
n-Butylbenzene	50.0	51.5		ug/Kg		103	70 - 142
sec-Butylbenzene	50.0	49.2		ug/Kg		98	70 - 136
tert-Butylbenzene	50.0	50.0		ug/Kg		100	70 - 130
Carbon disulfide	50.0	48.5		ug/Kg		97	60 - 140
Carbon tetrachloride	50.0	54.4		ug/Kg		109	70 - 138
Chlorobenzene	50.0	52.2		ug/Kg		104	70 - 130
Chloroethane	50.0	45.3		ug/Kg		91	65 - 130
Chloroform	50.0	53.9		ug/Kg		108	77 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-143872/6
Matrix: Solid
Analysis Batch: 143872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	41.7		ug/Kg		83	55 - 140
2-Chlorotoluene	50.0	51.0		ug/Kg		102	70 - 138
4-Chlorotoluene	50.0	50.3		ug/Kg		101	70 - 136
Chlorodibromomethane	50.0	62.2		ug/Kg		124	70 - 146
1,2-Dichlorobenzene	50.0	54.2		ug/Kg		108	70 - 130
1,3-Dichlorobenzene	50.0	52.6		ug/Kg		105	70 - 131
1,4-Dichlorobenzene	50.0	52.6		ug/Kg		105	70 - 130
1,3-Dichloropropane	50.0	58.3		ug/Kg		117	70 - 140
1,1-Dichloropropene	50.0	53.9		ug/Kg		108	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	55.3		ug/Kg		111	60 - 145
Ethylene Dibromide	50.0	60.6		ug/Kg		121	70 - 140
Dibromomethane	50.0	56.2		ug/Kg		112	70 - 139
Dichlorodifluoromethane	50.0	38.3		ug/Kg		77	37 - 158
1,1-Dichloroethane	50.0	49.5		ug/Kg		99	70 - 130
1,2-Dichloroethane	50.0	61.3		ug/Kg		123	70 - 130
1,1-Dichloroethene	50.0	41.9		ug/Kg		84	76 - 122
cis-1,2-Dichloroethene	50.0	52.6		ug/Kg		105	70 - 138
trans-1,2-Dichloroethene	50.0	45.9		ug/Kg		92	67 - 130
1,2-Dichloropropane	50.0	53.7		ug/Kg		107	73 - 127
cis-1,3-Dichloropropene	50.0	58.5		ug/Kg		117	68 - 147
trans-1,3-Dichloropropene	50.0	63.1		ug/Kg		126	70 - 136
Ethylbenzene	50.0	50.6		ug/Kg		101	80 - 137
Hexachlorobutadiene	50.0	51.8		ug/Kg		104	70 - 132
2-Hexanone	250	304		ug/Kg		122	44 - 133
Isopropylbenzene	50.0	53.8		ug/Kg		108	88 - 128
4-Isopropyltoluene	50.0	50.3		ug/Kg		101	70 - 133
Methylene Chloride	50.0	48.8		ug/Kg		98	70 - 134
4-Methyl-2-pentanone (MIBK)	250	308		ug/Kg		123	60 - 160
Naphthalene	50.0	58.3		ug/Kg		117	60 - 147
N-Propylbenzene	50.0	50.9		ug/Kg		102	70 - 130
Styrene	50.0	56.0		ug/Kg		112	70 - 130
1,1,1,2-Tetrachloroethane	50.0	56.1		ug/Kg		112	70 - 130
1,1,2,2-Tetrachloroethane	50.0	54.9		ug/Kg		110	70 - 146
Tetrachloroethene	50.0	51.2		ug/Kg		102	70 - 132
Toluene	50.0	48.8		ug/Kg		98	80 - 128
1,2,3-Trichlorobenzene	50.0	56.5		ug/Kg		113	60 - 140
1,2,4-Trichlorobenzene	50.0	56.1		ug/Kg		112	60 - 140
1,1,1-Trichloroethane	50.0	52.7		ug/Kg		105	70 - 130
1,1,2-Trichloroethane	50.0	59.5		ug/Kg		119	70 - 130
Trichloroethene	50.0	51.8		ug/Kg		104	70 - 133
Trichlorofluoromethane	50.0	50.1		ug/Kg		100	60 - 140
1,2,3-Trichloropropane	50.0	58.6		ug/Kg		117	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.2		ug/Kg		92	60 - 140
1,2,4-Trimethylbenzene	50.0	52.8		ug/Kg		106	70 - 130
1,3,5-Trimethylbenzene	50.0	51.1		ug/Kg		102	70 - 131
Vinyl acetate	50.0	63.9		ug/Kg		128	38 - 176
Vinyl chloride	50.0	43.0		ug/Kg		86	58 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-143872/6
Matrix: Solid
Analysis Batch: 143872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	100	106		ug/Kg		106	70 - 146
o-Xylene	50.0	54.1		ug/Kg		108	70 - 140
2,2-Dichloropropane	50.0	53.7		ug/Kg		107	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCS 720-143872/8
Matrix: Solid
Analysis Batch: 143872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	948		ug/Kg		95	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: LCSD 720-143872/7
Matrix: Solid
Analysis Batch: 143872

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	55.3		ug/Kg		111	70 - 144	5	20
Acetone	250	245		ug/Kg		98	30 - 162	5	30
Benzene	50.0	48.4		ug/Kg		97	70 - 130	1	20
Dichlorobromomethane	50.0	56.0		ug/Kg		112	70 - 131	3	20
Bromobenzene	50.0	52.6		ug/Kg		105	70 - 130	5	20
Chlorobromomethane	50.0	52.4		ug/Kg		105	70 - 130	2	20
Bromoform	50.0	60.2		ug/Kg		120	59 - 158	3	20
Bromomethane	50.0	42.9		ug/Kg		86	59 - 132	3	20
2-Butanone (MEK)	250	254		ug/Kg		102	53 - 124	9	20
n-Butylbenzene	50.0	52.8		ug/Kg		106	70 - 142	2	20
sec-Butylbenzene	50.0	51.0		ug/Kg		102	70 - 136	4	20
tert-Butylbenzene	50.0	51.5		ug/Kg		103	70 - 130	3	20
Carbon disulfide	50.0	48.3		ug/Kg		97	60 - 140	0	20
Carbon tetrachloride	50.0	53.3		ug/Kg		107	70 - 138	2	20
Chlorobenzene	50.0	52.6		ug/Kg		105	70 - 130	1	20
Chloroethane	50.0	45.9		ug/Kg		92	65 - 130	1	20
Chloroform	50.0	52.8		ug/Kg		106	77 - 127	2	20
Chloromethane	50.0	42.5		ug/Kg		85	55 - 140	2	20
2-Chlorotoluene	50.0	53.0		ug/Kg		106	70 - 138	4	20
4-Chlorotoluene	50.0	52.0		ug/Kg		104	70 - 136	3	20
Chlorodibromomethane	50.0	59.0		ug/Kg		118	70 - 146	5	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-143872/7
Matrix: Solid
Analysis Batch: 143872

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	53.9		ug/Kg		108	70 - 130	0	20
1,3-Dichlorobenzene	50.0	53.8		ug/Kg		108	70 - 131	2	20
1,4-Dichlorobenzene	50.0	53.8		ug/Kg		108	70 - 130	2	20
1,3-Dichloropropane	50.0	56.2		ug/Kg		112	70 - 140	4	20
1,1-Dichloropropene	50.0	52.9		ug/Kg		106	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	54.5		ug/Kg		109	60 - 145	1	20
Ethylene Dibromide	50.0	56.9		ug/Kg		114	70 - 140	6	20
Dibromomethane	50.0	53.4		ug/Kg		107	70 - 139	5	20
Dichlorodifluoromethane	50.0	37.3		ug/Kg		75	37 - 158	2	20
1,1-Dichloroethane	50.0	49.1		ug/Kg		98	70 - 130	1	20
1,2-Dichloroethane	50.0	58.5		ug/Kg		117	70 - 130	5	20
1,1-Dichloroethene	50.0	40.6		ug/Kg		81	76 - 122	3	20
cis-1,2-Dichloroethene	50.0	51.7		ug/Kg		103	70 - 138	2	20
trans-1,2-Dichloroethene	50.0	45.1		ug/Kg		90	67 - 130	2	20
1,2-Dichloropropane	50.0	52.5		ug/Kg		105	73 - 127	2	20
cis-1,3-Dichloropropene	50.0	56.8		ug/Kg		114	68 - 147	3	20
trans-1,3-Dichloropropene	50.0	60.3		ug/Kg		121	70 - 136	5	20
Ethylbenzene	50.0	51.2		ug/Kg		102	80 - 137	1	20
Hexachlorobutadiene	50.0	53.3		ug/Kg		107	70 - 132	3	20
2-Hexanone	250	277		ug/Kg		111	44 - 133	9	20
Isopropylbenzene	50.0	53.6		ug/Kg		107	88 - 128	0	20
4-Isopropyltoluene	50.0	51.4		ug/Kg		103	70 - 133	2	20
Methylene Chloride	50.0	47.7		ug/Kg		95	70 - 134	2	20
4-Methyl-2-pentanone (MIBK)	250	283		ug/Kg		113	60 - 160	8	20
Naphthalene	50.0	58.4		ug/Kg		117	60 - 147	0	20
N-Propylbenzene	50.0	52.8		ug/Kg		106	70 - 130	4	20
Styrene	50.0	55.8		ug/Kg		112	70 - 130	0	20
1,1,1,2-Tetrachloroethane	50.0	55.8		ug/Kg		112	70 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	53.9		ug/Kg		108	70 - 146	2	20
Tetrachloroethene	50.0	51.0		ug/Kg		102	70 - 132	0	20
Toluene	50.0	49.6		ug/Kg		99	80 - 128	2	20
1,2,3-Trichlorobenzene	50.0	57.2		ug/Kg		114	60 - 140	1	20
1,2,4-Trichlorobenzene	50.0	56.0		ug/Kg		112	60 - 140	0	20
1,1,1-Trichloroethane	50.0	52.0		ug/Kg		104	70 - 130	1	20
1,1,2-Trichloroethane	50.0	57.0		ug/Kg		114	70 - 130	4	20
Trichloroethene	50.0	51.5		ug/Kg		103	70 - 133	1	20
Trichlorofluoromethane	50.0	49.1		ug/Kg		98	60 - 140	2	20
1,2,3-Trichloropropane	50.0	59.3		ug/Kg		119	70 - 146	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.8		ug/Kg		92	60 - 140	1	20
1,2,4-Trimethylbenzene	50.0	53.8		ug/Kg		108	70 - 130	2	20
1,3,5-Trimethylbenzene	50.0	52.8		ug/Kg		106	70 - 131	3	20
Vinyl acetate	50.0	58.0		ug/Kg		116	38 - 176	10	20
Vinyl chloride	50.0	44.7		ug/Kg		89	58 - 125	4	20
m-Xylene & p-Xylene	100	105		ug/Kg		105	70 - 146	0	20
o-Xylene	50.0	53.8		ug/Kg		108	70 - 140	1	20
2,2-Dichloropropane	50.0	51.4		ug/Kg		103	70 - 162	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-143872/7
Matrix: Solid
Analysis Batch: 143872

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*101*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*
Toluene-d8 (Surr)	*99*		*58 - 140*

Lab Sample ID: LCSD 720-143872/9
Matrix: Solid
Analysis Batch: 143872

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	961		ug/Kg		96	61 - 128	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*102*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-143986/1-A
Matrix: Solid
Analysis Batch: 144051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143986

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Arsenic	ND		1.0		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Barium	ND		0.50		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Beryllium	ND		0.10		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Cadmium	ND		0.13		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Chromium	ND		0.50		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Cobalt	ND		0.20		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Copper	ND		1.5		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Lead	ND		0.50		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Molybdenum	ND		0.50		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Nickel	ND		0.50		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Selenium	ND		1.0		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Silver	ND		0.25		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Thallium	ND		0.50		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Vanadium	ND		0.50		mg/Kg		09/10/13 21:28	09/11/13 17:26	1
Zinc	ND		1.5		mg/Kg		09/10/13 21:28	09/11/13 17:26	1

Lab Sample ID: LCS 720-143986/2-A
Matrix: Solid
Analysis Batch: 144051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143986

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Antimony			50.0	46.6		mg/Kg		93	80 - 120		
Arsenic			50.0	47.9		mg/Kg		96	80 - 120		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-143986/2-A
Matrix: Solid
Analysis Batch: 144051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	50.0	49.1		mg/Kg		98	80 - 120
Beryllium	50.0	49.7		mg/Kg		99	80 - 120
Cadmium	50.0	48.1		mg/Kg		96	80 - 120
Chromium	50.0	49.6		mg/Kg		99	80 - 120
Cobalt	50.0	49.5		mg/Kg		99	80 - 120
Copper	50.0	49.9		mg/Kg		100	80 - 120
Lead	50.0	49.0		mg/Kg		98	80 - 120
Molybdenum	50.0	49.3		mg/Kg		99	80 - 120
Nickel	50.0	49.2		mg/Kg		98	80 - 120
Selenium	50.0	45.7		mg/Kg		91	80 - 120
Silver	25.0	24.3		mg/Kg		97	80 - 120
Thallium	50.0	48.9		mg/Kg		98	80 - 120
Vanadium	50.0	48.9		mg/Kg		98	80 - 120
Zinc	50.0	48.5		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 720-143986/3-A
Matrix: Solid
Analysis Batch: 144051

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 143986

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	45.7		mg/Kg		91	80 - 120	2	20
Arsenic	50.0	46.4		mg/Kg		93	80 - 120	3	20
Barium	50.0	48.5		mg/Kg		97	80 - 120	1	20
Beryllium	50.0	49.0		mg/Kg		98	80 - 120	1	20
Cadmium	50.0	47.0		mg/Kg		94	80 - 120	2	20
Chromium	50.0	47.4		mg/Kg		95	80 - 120	4	20
Cobalt	50.0	48.1		mg/Kg		96	80 - 120	3	20
Copper	50.0	47.7		mg/Kg		95	80 - 120	5	20
Lead	50.0	47.8		mg/Kg		96	80 - 120	3	20
Molybdenum	50.0	48.2		mg/Kg		96	80 - 120	2	20
Nickel	50.0	48.0		mg/Kg		96	80 - 120	3	20
Selenium	50.0	44.5		mg/Kg		89	80 - 120	3	20
Silver	25.0	23.2		mg/Kg		93	80 - 120	5	20
Thallium	50.0	47.6		mg/Kg		95	80 - 120	3	20
Vanadium	50.0	47.1		mg/Kg		94	80 - 120	4	20
Zinc	50.0	47.0		mg/Kg		94	80 - 120	3	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-143978/1-A
Matrix: Solid
Analysis Batch: 144017

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143978

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		09/10/13 20:11	09/11/13 09:45	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-143978/2-A
Matrix: Solid
Analysis Batch: 144017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143978

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.867		mg/Kg		104	80 - 120		

Lab Sample ID: LCSD 720-143978/3-A
Matrix: Solid
Analysis Batch: 144017

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 143978

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.833	0.883		mg/Kg		106	80 - 120	2	20

GC/MS VOA

Analysis Batch: 143872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52116-5	EX3-SPOILS COMPOSITE	Total/NA	Solid	8260B	143891
LCS 720-143872/6	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-143872/8	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-143872/7	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-143872/9	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-143872/5	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 143891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52116-5	EX3-SPOILS COMPOSITE	Total/NA	Solid	5030B	

GC Semi VOA

Analysis Batch: 144086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52116-5	EX3-SPOILS COMPOSITE	Total/NA	Solid	8015B	144132

Prep Batch: 144132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52116-5	EX3-SPOILS COMPOSITE	Total/NA	Solid	3546	

Metals

Prep Batch: 143978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52116-5	EX3-SPOILS COMPOSITE	Total/NA	Solid	7471A	
LCS 720-143978/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-143978/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-143978/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 143986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52116-5	EX3-SPOILS COMPOSITE	Total/NA	Solid	3050B	
LCS 720-143986/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-143986/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-143986/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 144017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52116-5	EX3-SPOILS COMPOSITE	Total/NA	Solid	7471A	143978
LCS 720-143978/2-A	Lab Control Sample	Total/NA	Solid	7471A	143978
LCSD 720-143978/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	143978
MB 720-143978/1-A	Method Blank	Total/NA	Solid	7471A	143978

Analysis Batch: 144051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52116-5	EX3-SPOILS COMPOSITE	Total/NA	Solid	6010B	143986
LCS 720-143986/2-A	Lab Control Sample	Total/NA	Solid	6010B	143986
LCSD 720-143986/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	143986
MB 720-143986/1-A	Method Blank	Total/NA	Solid	6010B	143986

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52116-1

Client Sample ID: EX3-SPOILS COMPOSITE — **Lab Sample ID: 720-52116-5**

Date Collected: 09/05/13 09:35 — **Matrix: Solid**

Date Received: 09/05/13 11:58

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			143891	09/09/13 19:46	LPL	TAL PLS
Total/NA	Analysis	8260B		1	143872	09/10/13 00:40	ASC	TAL PLS
Total/NA	Prep	3546			144132	09/12/13 15:40	DBT	TAL PLS
Total/NA	Analysis	8015B		5	144086	09/13/13 02:09	JL	TAL PLS
Total/NA	Prep	7471A			143978	09/10/13 20:11	ASB	TAL PLS
Total/NA	Analysis	7471A		1	144017	09/11/13 10:13	EFH	TAL PLS
Total/NA	Prep	3050B			143986	09/10/13 21:28	ASB	TAL PLS
Total/NA	Analysis	6010B		4	144051	09/11/13 17:59	CAM	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52116-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52116-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52116-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-52116-5	EX3-SPOILS COMPOSITE	Solid	09/05/13 09:35	09/05/13 11:58

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-52116

Reference #: 148409

Date 9/5/13 Page 1 of 1

9/13/2013

Report To

Attn: K Guthrie, J Schwartz
Company: Haley & Aldrich
Address: 2033 N Main St Walnut Creek
Email: KGuthrie@haleyaldrich.com
Bill To: H&A
Sampled By: JSebik
Attn.
Phone: 925-357-7355

Analysis Request

Sample ID	Date	Time	Mat trix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals ☐ 6020 ☐ 200.8 (ICP-MS)	☐ W E T (STLC) ☐ W E T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
EX3-Spoils	9/5/13	0935	S	—	X		X	X					X													4

Project Info

Project Name/ #: Former Hanson Aggregate Facility
PO#: 39792
Credit Card Y/N:

Sample Receipt

of Containers:
Head Space:
Temp: 11.1°
If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____
Please composite 4 8-oz jars

See Terms and Conditions on reverse

	1) Relinquished by:	2) Relinquished by:	3) Relinquished by.
Signature / Time	1158		
Printed Name / Date	JOANNA SEBIK 9/5/13		
Company	Haley & Aldrich		

720-52116 Chain of Custody

	1) Received by:	2) Received by:	3) Received by
Signature / Time	1158		
Printed Name / Date	9-5-13		
Company			

Rev 10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-52116-1

Login Number: 52116

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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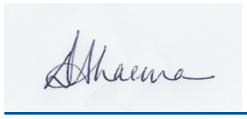
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-52758-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz



Authorized for release by:
10/10/2013 4:03:22 PM

Dimple Sharma, Project Manager I
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-52758-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-52758-1

Comments
No additional comments.

Receipt
The samples were received on 10/3/2013 4:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.7º C.

GC/MS VOA
Method 8260B: Internal standard response for the following sample 52758-10,15 exceeded the lower control limit and confirmed by reanalysis. As such, the sample results may be biased high.

Method 8260B: Internal standard response for the following sample exceeded the lower control limit: EX4-2-SPOILS-COMP.A (720-52758-25), EX4-2-SPOILS-COMP.B (720-52758-30). As such, the sample results may be biased high; confirmed by re-analysis.

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: EX3-2-SPOILS-COMP. (720-52758-15), EX4-2-SPOILS-COMP.A (720-52758-25), EX4-2-SPOILS-COMP.B (720-52758-30), EX5-2-SPOILS-COMP. (720-52758-20).

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX6-2-SPOILS-COMP.A — Lab Sample ID: 720-52758-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	100		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	320		250		mg/Kg	5		8015B	Silica Gel Cleanup
Barium	80		1.5		mg/Kg	4		6010B	Total/NA
Chromium	36		1.5		mg/Kg	4		6010B	Total/NA
Cobalt	11		0.62		mg/Kg	4		6010B	Total/NA
Copper	55		4.6		mg/Kg	4		6010B	Total/NA
Lead	31		1.5		mg/Kg	4		6010B	Total/NA
Nickel	46		1.5		mg/Kg	4		6010B	Total/NA
Vanadium	43		1.5		mg/Kg	4		6010B	Total/NA
Zinc	68		4.6		mg/Kg	4		6010B	Total/NA
Mercury	0.88		0.0095		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX6-2-SPOILS-COMPB. — Lab Sample ID: 720-52758-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	98		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	260		150		mg/Kg	3		8015B	Silica Gel Cleanup
Barium	88		1.6		mg/Kg	4		6010B	Total/NA
Chromium	31		1.6		mg/Kg	4		6010B	Total/NA
Cobalt	7.4		0.63		mg/Kg	4		6010B	Total/NA
Copper	20		4.7		mg/Kg	4		6010B	Total/NA
Lead	11		1.6		mg/Kg	4		6010B	Total/NA
Nickel	47		1.6		mg/Kg	4		6010B	Total/NA
Vanadium	23		1.6		mg/Kg	4		6010B	Total/NA
Zinc	42		4.7		mg/Kg	4		6010B	Total/NA
Mercury	0.062		0.0085		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX3-2-SPOILS-COMP. — Lab Sample ID: 720-52758-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	630		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	2200		990		mg/Kg	20		8015B	Silica Gel Cleanup
Arsenic	3.9		3.6		mg/Kg	4		6010B	Total/NA
Barium	120		1.8		mg/Kg	4		6010B	Total/NA
Chromium	54		1.8		mg/Kg	4		6010B	Total/NA
Cobalt	10		0.73		mg/Kg	4		6010B	Total/NA
Copper	24		5.5		mg/Kg	4		6010B	Total/NA
Lead	9.7		1.8		mg/Kg	4		6010B	Total/NA
Nickel	62		1.8		mg/Kg	4		6010B	Total/NA
Vanadium	29		1.8		mg/Kg	4		6010B	Total/NA
Zinc	41		5.5		mg/Kg	4		6010B	Total/NA
Mercury	0.047		0.0088		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX5-2-SPOILS-COMP. — Lab Sample ID: 720-52758-20

This Detection Summary does not include radiochemical test results.

Client Sample ID: EX5-2-SPOILS-COMP. (Continued) — Lab Sample ID: 720-52758-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	160		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	440		250		mg/Kg	5		8015B	Silica Gel Cleanup
Barium	120		1.9		mg/Kg	4		6010B	Total/NA
Chromium	37		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	9.1		0.76		mg/Kg	4		6010B	Total/NA
Copper	27		5.7		mg/Kg	4		6010B	Total/NA
Lead	7.5		1.9		mg/Kg	4		6010B	Total/NA
Nickel	54		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	32		1.9		mg/Kg	4		6010B	Total/NA
Zinc	44		5.7		mg/Kg	4		6010B	Total/NA
Mercury	0.12		0.0088		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX4-2-SPOILS-COMP.A — Lab Sample ID: 720-52758-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	520		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1300		990		mg/Kg	20		8015B	Silica Gel Cleanup
Arsenic	3.8		3.5		mg/Kg	4		6010B	Total/NA
Barium	130		1.8		mg/Kg	4		6010B	Total/NA
Chromium	52		1.8		mg/Kg	4		6010B	Total/NA
Cobalt	9.4		0.70		mg/Kg	4		6010B	Total/NA
Copper	24		5.3		mg/Kg	4		6010B	Total/NA
Lead	7.0		1.8		mg/Kg	4		6010B	Total/NA
Nickel	69		1.8		mg/Kg	4		6010B	Total/NA
Vanadium	33		1.8		mg/Kg	4		6010B	Total/NA
Zinc	41		5.3		mg/Kg	4		6010B	Total/NA
Mercury	0.063		0.0098		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX4-2-SPOILS-COMP.B — Lab Sample ID: 720-52758-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	930		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	2300		980		mg/Kg	20		8015B	Silica Gel Cleanup
Arsenic	4.0		3.0		mg/Kg	4		6010B	Total/NA
Barium	110		1.5		mg/Kg	4		6010B	Total/NA
Chromium	64		1.5		mg/Kg	4		6010B	Total/NA
Cobalt	10		0.59		mg/Kg	4		6010B	Total/NA
Copper	26		4.4		mg/Kg	4		6010B	Total/NA
Lead	10		1.5		mg/Kg	4		6010B	Total/NA
Nickel	68		1.5		mg/Kg	4		6010B	Total/NA
Vanadium	33		1.5		mg/Kg	4		6010B	Total/NA
Zinc	48		4.4		mg/Kg	4		6010B	Total/NA
Mercury	0.048		0.0087		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX10/11-S1(20.0) — Lab Sample ID: 720-52758-31

This Detection Summary does not include radiochemical test results.

Client Sample ID: EX10/11-S1(20.0) (Continued)

Lab Sample ID: 720-52758-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.9		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX6-2-SPOILS-COMP.A — **Lab Sample ID: 720-52758-5**
Date Collected: 10/03/13 13:05 — **Matrix: Solid**
Date Received: 10/03/13 16:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Acetone	ND		46		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Benzene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Dichlorobromomethane	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Bromobenzene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Chlorobromomethane	ND		18		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Bromoform	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Bromomethane	ND		9.1		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
2-Butanone (MEK)	ND		46		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
n-Butylbenzene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
sec-Butylbenzene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
tert-Butylbenzene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Carbon disulfide	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Carbon tetrachloride	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Chlorobenzene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Chloroethane	ND		9.1		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Chloroform	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Chloromethane	ND		9.1		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
2-Chlorotoluene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
4-Chlorotoluene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Chlorodibromomethane	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,3-Dichloropropane	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,1-Dichloropropene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Ethylene Dibromide	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Dibromomethane	ND		9.1		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Dichlorodifluoromethane	ND		9.1		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,1-Dichloroethane	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,2-Dichloroethane	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,1-Dichloroethene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,2-Dichloropropane	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Ethylbenzene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Hexachlorobutadiene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
2-Hexanone	ND		46		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Isopropylbenzene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
4-Isopropyltoluene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Methylene Chloride	ND		9.1		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Naphthalene	ND		9.1		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
N-Propylbenzene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Styrene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX6-2-SPOILS-COMP.A — **Lab Sample ID: 720-52758-5**
Date Collected: 10/03/13 13:05 — **Matrix: Solid**
Date Received: 10/03/13 16:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Tetrachloroethene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Toluene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Trichloroethene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Trichlorofluoromethane	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Vinyl acetate	ND		46		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Vinyl chloride	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Xylenes, Total	ND		9.1		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
2,2-Dichloropropane	ND		4.6		ug/Kg		10/09/13 17:00	10/10/13 00:15	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		10/09/13 17:00	10/10/13 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*45 - 131*	*10/09/13 17:00*	*10/10/13 00:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*	*10/09/13 17:00*	*10/10/13 00:15*	*1*
Toluene-d8 (Surr)	*96*		*58 - 140*	*10/09/13 17:00*	*10/10/13 00:15*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**100**		5.0		mg/Kg		10/08/13 13:35	10/09/13 22:14	5
Motor Oil Range Organics [C24-C36]	**320**		250		mg/Kg		10/08/13 13:35	10/09/13 22:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.7*		*0 - 1*	*10/08/13 13:35*	*10/09/13 22:14*	*5*
p-Terphenyl	*69*		*38 - 148*	*10/08/13 13:35*	*10/09/13 22:14*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.5		mg/Kg		10/08/13 20:58	10/09/13 19:37	4
Arsenic	ND		3.1		mg/Kg		10/08/13 20:58	10/09/13 19:37	4
Barium	**80**		1.5		mg/Kg		10/08/13 20:58	10/09/13 19:37	4
Beryllium	ND		0.31		mg/Kg		10/08/13 20:58	10/09/13 19:37	4
Cadmium	ND		0.38		mg/Kg		10/08/13 20:58	10/09/13 19:37	4
Chromium	**36**		1.5		mg/Kg		10/08/13 20:58	10/09/13 19:37	4
Cobalt	**11**		0.62		mg/Kg		10/08/13 20:58	10/09/13 19:37	4
Copper	**55**		4.6		mg/Kg		10/08/13 20:58	10/09/13 19:37	4
Lead	**31**		1.5		mg/Kg		10/08/13 20:58	10/09/13 19:37	4
Molybdenum	ND		1.5		mg/Kg		10/08/13 20:58	10/09/13 19:37	4
Nickel	**46**		1.5		mg/Kg		10/08/13 20:58	10/09/13 19:37	4
Selenium	ND		3.1		mg/Kg		10/08/13 20:58	10/09/13 19:37	4
Silver	ND		0.77		mg/Kg		10/08/13 20:58	10/09/13 19:37	4
Thallium	ND		1.5		mg/Kg		10/08/13 20:58	10/09/13 19:37	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX6-2-SPOILS-COMP.A
Date Collected: 10/03/13 13:05
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-5
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	43		1.5		mg/Kg		10/08/13 20:58	10/09/13 19:37	4
Zinc	68		4.6		mg/Kg		10/08/13 20:58	10/09/13 19:37	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.88		0.0095		mg/Kg		10/08/13 22:28	10/10/13 14:21	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX6-2-SPOILS-COMPB.
Date Collected: 10/03/13 13:30
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Acetone	ND		47		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Benzene	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Dichlorobromomethane	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Bromobenzene	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Chlorobromomethane	ND		19		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Bromoform	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Bromomethane	ND		9.4		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
2-Butanone (MEK)	ND		47		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
n-Butylbenzene	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
sec-Butylbenzene	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
tert-Butylbenzene	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Carbon disulfide	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Carbon tetrachloride	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Chlorobenzene	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Chloroethane	ND		9.4		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Chloroform	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Chloromethane	ND		9.4		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
2-Chlorotoluene	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
4-Chlorotoluene	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Chlorodibromomethane	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,2-Dichlorobenzene	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,3-Dichlorobenzene	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,4-Dichlorobenzene	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,3-Dichloropropane	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,1-Dichloropropene	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,2-Dibromo-3-Chloropropane	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Ethylene Dibromide	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Dibromomethane	ND		9.4		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Dichlorodifluoromethane	ND		9.4		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,1-Dichloroethane	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,2-Dichloroethane	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,1-Dichloroethene	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,2-Dichloropropane	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Ethylbenzene	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Hexachlorobutadiene	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
2-Hexanone	ND		47		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Isopropylbenzene	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
4-Isopropyltoluene	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Methylene Chloride	ND		9.4		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
4-Methyl-2-pentanone (MIBK)	ND		47		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Naphthalene	ND	*	9.4		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
N-Propylbenzene	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Styrene	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX6-2-SPOILS-COMPB.
Date Collected: 10/03/13 13:30
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Tetrachloroethene	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Toluene	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,2,3-Trichlorobenzene	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,2,4-Trichlorobenzene	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Trichloroethene	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Trichlorofluoromethane	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,2,3-Trichloropropane	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,2,4-Trimethylbenzene	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
1,3,5-Trimethylbenzene	ND	*	4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Vinyl acetate	ND		47		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Vinyl chloride	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Xylenes, Total	ND		9.4		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
2,2-Dichloropropane	ND		4.7		ug/Kg		10/09/13 17:00	10/10/13 00:43	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		10/09/13 17:00	10/10/13 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*82*		*45 - 131*	*10/09/13 17:00*	*10/10/13 00:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*	*10/09/13 17:00*	*10/10/13 00:43*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*10/09/13 17:00*	*10/10/13 00:43*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**98**		3.0		mg/Kg		10/08/13 13:35	10/10/13 09:53	3
Motor Oil Range Organics [C24-C36]	**260**		150		mg/Kg		10/08/13 13:35	10/10/13 09:53	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.7*		*0 - 1*	*10/08/13 13:35*	*10/10/13 09:53*	*3*
p-Terphenyl	*87*		*38 - 148*	*10/08/13 13:35*	*10/10/13 09:53*	*3*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6		mg/Kg		10/08/13 20:58	10/09/13 19:41	4
Arsenic	ND		3.1		mg/Kg		10/08/13 20:58	10/09/13 19:41	4
Barium	**88**		1.6		mg/Kg		10/08/13 20:58	10/09/13 19:41	4
Beryllium	ND		0.31		mg/Kg		10/08/13 20:58	10/09/13 19:41	4
Cadmium	ND		0.39		mg/Kg		10/08/13 20:58	10/09/13 19:41	4
Chromium	**31**		1.6		mg/Kg		10/08/13 20:58	10/09/13 19:41	4
Cobalt	**7.4**		0.63		mg/Kg		10/08/13 20:58	10/09/13 19:41	4
Copper	**20**		4.7		mg/Kg		10/08/13 20:58	10/09/13 19:41	4
Lead	**11**		1.6		mg/Kg		10/08/13 20:58	10/09/13 19:41	4
Molybdenum	ND		1.6		mg/Kg		10/08/13 20:58	10/09/13 19:41	4
Nickel	**47**		1.6		mg/Kg		10/08/13 20:58	10/09/13 19:41	4
Selenium	ND		3.1		mg/Kg		10/08/13 20:58	10/09/13 19:41	4
Silver	ND		0.79		mg/Kg		10/08/13 20:58	10/09/13 19:41	4
Thallium	ND		1.6		mg/Kg		10/08/13 20:58	10/09/13 19:41	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX6-2-SPOILS-COMPB.
Date Collected: 10/03/13 13:30
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-10
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	23		1.6		mg/Kg		10/08/13 20:58	10/09/13 19:41	4
Zinc	42		4.7		mg/Kg		10/08/13 20:58	10/09/13 19:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.062		0.0085		mg/Kg		10/08/13 22:28	10/10/13 14:28	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX3-2-SPOILS-COMP.
Date Collected: 10/03/13 09:50
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-15
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Acetone	ND		48		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Benzene	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Dichlorobromomethane	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Bromobenzene	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Chlorobromomethane	ND		19		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Bromoform	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Bromomethane	ND		9.6		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
2-Butanone (MEK)	ND		48		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
n-Butylbenzene	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
sec-Butylbenzene	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
tert-Butylbenzene	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Carbon disulfide	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Carbon tetrachloride	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Chlorobenzene	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Chloroethane	ND		9.6		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Chloroform	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Chloromethane	ND		9.6		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
2-Chlorotoluene	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
4-Chlorotoluene	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Chlorodibromomethane	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,2-Dichlorobenzene	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,3-Dichlorobenzene	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,4-Dichlorobenzene	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,3-Dichloropropane	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,1-Dichloropropene	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,2-Dibromo-3-Chloropropane	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Ethylene Dibromide	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Dibromomethane	ND		9.6		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,1-Dichloroethane	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,2-Dichloroethane	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,1-Dichloroethene	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,2-Dichloropropane	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Ethylbenzene	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Hexachlorobutadiene	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
2-Hexanone	ND		48		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Isopropylbenzene	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
4-Isopropyltoluene	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Methylene Chloride	ND		9.6		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Naphthalene	ND	*	9.6		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
N-Propylbenzene	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Styrene	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX3-2-SPOILS-COMP.
Date Collected: 10/03/13 09:50
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-15
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Tetrachloroethene	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Toluene	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,2,3-Trichlorobenzene	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,2,4-Trichlorobenzene	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Trichloroethene	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Trichlorofluoromethane	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,2,3-Trichloropropane	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,2,4-Trimethylbenzene	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
1,3,5-Trimethylbenzene	ND	*	4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Vinyl acetate	ND		48		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Vinyl chloride	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Xylenes, Total	ND		9.6		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
2,2-Dichloropropane	ND		4.8		ug/Kg		10/09/13 17:00	10/10/13 01:12	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		10/09/13 17:00	10/10/13 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*72*		*45 - 131*	*10/09/13 17:00*	*10/10/13 01:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*	*10/09/13 17:00*	*10/10/13 01:12*	*1*
Toluene-d8 (Surr)	*89*		*58 - 140*	*10/09/13 17:00*	*10/10/13 01:12*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**630**		20		mg/Kg		10/08/13 13:35	10/09/13 16:07	20
Motor Oil Range Organics [C24-C36]	**2200**		990		mg/Kg		10/08/13 13:35	10/09/13 16:07	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/08/13 13:35*	*10/09/13 16:07*	*20*
p-Terphenyl	*0*	*D X*	*38 - 148*	*10/08/13 13:35*	*10/09/13 16:07*	*20*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8		mg/Kg		10/08/13 20:58	10/09/13 19:46	4
Arsenic	**3.9**		3.6		mg/Kg		10/08/13 20:58	10/09/13 19:46	4
Barium	**120**		1.8		mg/Kg		10/08/13 20:58	10/09/13 19:46	4
Beryllium	ND		0.36		mg/Kg		10/08/13 20:58	10/09/13 19:46	4
Cadmium	ND		0.45		mg/Kg		10/08/13 20:58	10/09/13 19:46	4
Chromium	**54**		1.8		mg/Kg		10/08/13 20:58	10/09/13 19:46	4
Cobalt	**10**		0.73		mg/Kg		10/08/13 20:58	10/09/13 19:46	4
Copper	**24**		5.5		mg/Kg		10/08/13 20:58	10/09/13 19:46	4
Lead	**9.7**		1.8		mg/Kg		10/08/13 20:58	10/09/13 19:46	4
Molybdenum	ND		1.8		mg/Kg		10/08/13 20:58	10/09/13 19:46	4
Nickel	**62**		1.8		mg/Kg		10/08/13 20:58	10/09/13 19:46	4
Selenium	ND		3.6		mg/Kg		10/08/13 20:58	10/09/13 19:46	4
Silver	ND		0.91		mg/Kg		10/08/13 20:58	10/09/13 19:46	4
Thallium	ND		1.8		mg/Kg		10/08/13 20:58	10/09/13 19:46	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX3-2-SPOILS-COMP.
Date Collected: 10/03/13 09:50
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-15
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	29		1.8		mg/Kg		10/08/13 20:58	10/09/13 19:46	4
Zinc	41		5.5		mg/Kg		10/08/13 20:58	10/09/13 19:46	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.0088		mg/Kg		10/08/13 22:28	10/10/13 14:30	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX5-2-SPOILS-COMP.
Date Collected: 10/03/13 12:25
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-20
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Acetone	ND		48		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Benzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Dichlorobromomethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Bromobenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Chlorobromomethane	ND		19		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Bromoform	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Bromomethane	ND		9.5		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
2-Butanone (MEK)	ND		48		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
n-Butylbenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
sec-Butylbenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
tert-Butylbenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Carbon disulfide	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Carbon tetrachloride	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Chlorobenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Chloroethane	ND		9.5		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Chloroform	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Chloromethane	ND		9.5		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
2-Chlorotoluene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
4-Chlorotoluene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Chlorodibromomethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,3-Dichloropropane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,1-Dichloropropene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Ethylene Dibromide	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Dibromomethane	ND		9.5		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Dichlorodifluoromethane	ND		9.5		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,1-Dichloroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,2-Dichloroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,1-Dichloroethene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,2-Dichloropropane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Ethylbenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Hexachlorobutadiene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
2-Hexanone	ND		48		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Isopropylbenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
4-Isopropyltoluene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Methylene Chloride	ND		9.5		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Naphthalene	ND		9.5		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
N-Propylbenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Styrene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1

Client Sample ID: EX5-2-SPOILS-COMP.
Date Collected: 10/03/13 12:25
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-20
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Tetrachloroethene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Toluene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Trichloroethene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Trichlorofluoromethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Vinyl acetate	ND		48		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Vinyl chloride	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Xylenes, Total	ND		9.5		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
2,2-Dichloropropane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:20	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		10/10/13 10:00	10/10/13 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*83*		*45 - 131*	*10/10/13 10:00*	*10/10/13 13:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 140*	*10/10/13 10:00*	*10/10/13 13:20*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*	*10/10/13 10:00*	*10/10/13 13:20*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**160**		5.0		mg/Kg		10/08/13 13:35	10/09/13 16:32	5
Motor Oil Range Organics [C24-C36]	**440**		250		mg/Kg		10/08/13 13:35	10/09/13 16:32	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/08/13 13:35*	*10/09/13 16:32*	*5*
p-Terphenyl	*0*	*D X*	*38 - 148*	*10/08/13 13:35*	*10/09/13 16:32*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		10/08/13 20:58	10/09/13 19:50	4
Arsenic	ND		3.8		mg/Kg		10/08/13 20:58	10/09/13 19:50	4
Barium	**120**		1.9		mg/Kg		10/08/13 20:58	10/09/13 19:50	4
Beryllium	ND		0.38		mg/Kg		10/08/13 20:58	10/09/13 19:50	4
Cadmium	ND		0.48		mg/Kg		10/08/13 20:58	10/09/13 19:50	4
Chromium	**37**		1.9		mg/Kg		10/08/13 20:58	10/09/13 19:50	4
Cobalt	**9.1**		0.76		mg/Kg		10/08/13 20:58	10/09/13 19:50	4
Copper	**27**		5.7		mg/Kg		10/08/13 20:58	10/09/13 19:50	4
Lead	**7.5**		1.9		mg/Kg		10/08/13 20:58	10/09/13 19:50	4
Molybdenum	ND		1.9		mg/Kg		10/08/13 20:58	10/09/13 19:50	4
Nickel	**54**		1.9		mg/Kg		10/08/13 20:58	10/09/13 19:50	4
Selenium	ND		3.8		mg/Kg		10/08/13 20:58	10/09/13 19:50	4
Silver	ND		0.95		mg/Kg		10/08/13 20:58	10/09/13 19:50	4
Thallium	ND		1.9		mg/Kg		10/08/13 20:58	10/09/13 19:50	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX5-2-SPOILS-COMP.
Date Collected: 10/03/13 12:25
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-20
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	32		1.9		mg/Kg		10/08/13 20:58	10/09/13 19:50	4
Zinc	44		5.7		mg/Kg		10/08/13 20:58	10/09/13 19:50	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.0088		mg/Kg		10/08/13 22:28	10/10/13 14:32	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX4-2-SPOILS-COMP.A
Date Collected: 10/03/13 10:25
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-25
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Acetone	ND		48		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Benzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Dichlorobromomethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Bromobenzene	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Chlorobromomethane	ND		19		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Bromoform	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Bromomethane	ND		9.6		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
2-Butanone (MEK)	ND		48		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
n-Butylbenzene	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
sec-Butylbenzene	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
tert-Butylbenzene	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Carbon disulfide	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Carbon tetrachloride	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Chlorobenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Chloroethane	ND		9.6		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Chloroform	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Chloromethane	ND		9.6		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
2-Chlorotoluene	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
4-Chlorotoluene	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Chlorodibromomethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,2-Dichlorobenzene	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,3-Dichlorobenzene	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,4-Dichlorobenzene	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,3-Dichloropropane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,1-Dichloropropene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,2-Dibromo-3-Chloropropane	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Ethylene Dibromide	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Dibromomethane	ND		9.6		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,1-Dichloroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,2-Dichloroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,1-Dichloroethene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,2-Dichloropropane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Ethylbenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Hexachlorobutadiene	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
2-Hexanone	ND		48		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Isopropylbenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
4-Isopropyltoluene	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Methylene Chloride	ND		9.6		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Naphthalene	ND	*	9.6		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
N-Propylbenzene	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Styrene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX4-2-SPOILS-COMP.A
Date Collected: 10/03/13 10:25
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-25
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Tetrachloroethene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Toluene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,2,3-Trichlorobenzene	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,2,4-Trichlorobenzene	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Trichloroethene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Trichlorofluoromethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,2,3-Trichloropropane	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,2,4-Trimethylbenzene	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
1,3,5-Trimethylbenzene	ND	*	4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Vinyl acetate	ND		48		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Vinyl chloride	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Xylenes, Total	ND		9.6		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
2,2-Dichloropropane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 13:46	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		10/10/13 10:00	10/10/13 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*82*		*45 - 131*	*10/10/13 10:00*	*10/10/13 13:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*	*10/10/13 10:00*	*10/10/13 13:46*	*1*
Toluene-d8 (Surr)	*90*		*58 - 140*	*10/10/13 10:00*	*10/10/13 13:46*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**520**		20		mg/Kg		10/08/13 13:35	10/09/13 16:56	20
Motor Oil Range Organics [C24-C36]	**1300**		990		mg/Kg		10/08/13 13:35	10/09/13 16:56	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/08/13 13:35*	*10/09/13 16:56*	*20*
p-Terphenyl	*0*	*D X*	*38 - 148*	*10/08/13 13:35*	*10/09/13 16:56*	*20*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8		mg/Kg		10/08/13 20:58	10/09/13 19:55	4
Arsenic	**3.8**		3.5		mg/Kg		10/08/13 20:58	10/09/13 19:55	4
Barium	**130**		1.8		mg/Kg		10/08/13 20:58	10/09/13 19:55	4
Beryllium	ND		0.35		mg/Kg		10/08/13 20:58	10/09/13 19:55	4
Cadmium	ND		0.44		mg/Kg		10/08/13 20:58	10/09/13 19:55	4
Chromium	**52**		1.8		mg/Kg		10/08/13 20:58	10/09/13 19:55	4
Cobalt	**9.4**		0.70		mg/Kg		10/08/13 20:58	10/09/13 19:55	4
Copper	**24**		5.3		mg/Kg		10/08/13 20:58	10/09/13 19:55	4
Lead	**7.0**		1.8		mg/Kg		10/08/13 20:58	10/09/13 19:55	4
Molybdenum	ND		1.8		mg/Kg		10/08/13 20:58	10/09/13 19:55	4
Nickel	**69**		1.8		mg/Kg		10/08/13 20:58	10/09/13 19:55	4
Selenium	ND		3.5		mg/Kg		10/08/13 20:58	10/09/13 19:55	4
Silver	ND		0.88		mg/Kg		10/08/13 20:58	10/09/13 19:55	4
Thallium	ND		1.8		mg/Kg		10/08/13 20:58	10/09/13 19:55	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX4-2-SPOILS-COMP.A
Date Collected: 10/03/13 10:25
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-25
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	33		1.8		mg/Kg		10/08/13 20:58	10/09/13 19:55	4
Zinc	41		5.3		mg/Kg		10/08/13 20:58	10/09/13 19:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.0098		mg/Kg		10/08/13 22:28	10/10/13 14:34	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX4-2-SPOILS-COMP.B
Date Collected: 10/03/13 10:45
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-30
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Acetone	ND		47		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Benzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Dichlorobromomethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Bromobenzene	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Chlorobromomethane	ND		19		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Bromoform	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Bromomethane	ND		9.5		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
2-Butanone (MEK)	ND		47		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
n-Butylbenzene	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
sec-Butylbenzene	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
tert-Butylbenzene	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Carbon disulfide	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Carbon tetrachloride	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Chlorobenzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Chloroethane	ND		9.5		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Chloroform	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Chloromethane	ND		9.5		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
2-Chlorotoluene	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
4-Chlorotoluene	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Chlorodibromomethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,2-Dichlorobenzene	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,3-Dichlorobenzene	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,4-Dichlorobenzene	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,3-Dichloropropane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,1-Dichloropropene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,2-Dibromo-3-Chloropropane	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Ethylene Dibromide	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Dibromomethane	ND		9.5		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Dichlorodifluoromethane	ND		9.5		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,1-Dichloroethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,2-Dichloroethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,1-Dichloroethene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,2-Dichloropropane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Ethylbenzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Hexachlorobutadiene	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
2-Hexanone	ND		47		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Isopropylbenzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
4-Isopropyltoluene	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Methylene Chloride	ND		9.5		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
4-Methyl-2-pentanone (MIBK)	ND		47		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Naphthalene	ND	*	9.5		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
N-Propylbenzene	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Styrene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX4-2-SPOILS-COMP.B
Date Collected: 10/03/13 10:45
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-30
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Tetrachloroethene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Toluene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,2,3-Trichlorobenzene	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,2,4-Trichlorobenzene	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Trichloroethene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Trichlorofluoromethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,2,3-Trichloropropane	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,2,4-Trimethylbenzene	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
1,3,5-Trimethylbenzene	ND	*	4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Vinyl acetate	ND		47		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Vinyl chloride	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Xylenes, Total	ND		9.5		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
2,2-Dichloropropane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 14:12	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		10/10/13 10:00	10/10/13 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*85*		*45 - 131*	*10/10/13 10:00*	*10/10/13 14:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*	*10/10/13 10:00*	*10/10/13 14:12*	*1*
Toluene-d8 (Surr)	*90*		*58 - 140*	*10/10/13 10:00*	*10/10/13 14:12*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**930**		20		mg/Kg		10/08/13 13:35	10/09/13 17:20	20
Motor Oil Range Organics [C24-C36]	**2300**		980		mg/Kg		10/08/13 13:35	10/09/13 17:20	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/08/13 13:35*	*10/09/13 17:20*	*20*
p-Terphenyl	*0*	*D X*	*38 - 148*	*10/08/13 13:35*	*10/09/13 17:20*	*20*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.5		mg/Kg		10/08/13 20:58	10/09/13 19:59	4
Arsenic	**4.0**		3.0		mg/Kg		10/08/13 20:58	10/09/13 19:59	4
Barium	**110**		1.5		mg/Kg		10/08/13 20:58	10/09/13 19:59	4
Beryllium	ND		0.30		mg/Kg		10/08/13 20:58	10/09/13 19:59	4
Cadmium	ND		0.37		mg/Kg		10/08/13 20:58	10/09/13 19:59	4
Chromium	**64**		1.5		mg/Kg		10/08/13 20:58	10/09/13 19:59	4
Cobalt	**10**		0.59		mg/Kg		10/08/13 20:58	10/09/13 19:59	4
Copper	**26**		4.4		mg/Kg		10/08/13 20:58	10/09/13 19:59	4
Lead	**10**		1.5		mg/Kg		10/08/13 20:58	10/09/13 19:59	4
Molybdenum	ND		1.5		mg/Kg		10/08/13 20:58	10/09/13 19:59	4
Nickel	**68**		1.5		mg/Kg		10/08/13 20:58	10/09/13 19:59	4
Selenium	ND		3.0		mg/Kg		10/08/13 20:58	10/09/13 19:59	4
Silver	ND		0.74		mg/Kg		10/08/13 20:58	10/09/13 19:59	4
Thallium	ND		1.5		mg/Kg		10/08/13 20:58	10/09/13 19:59	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX4-2-SPOILS-COMP.B
Date Collected: 10/03/13 10:45
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-30
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	33		1.5		mg/Kg		10/08/13 20:58	10/09/13 19:59	4
Zinc	48		4.4		mg/Kg		10/08/13 20:58	10/09/13 19:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.0087		mg/Kg		10/08/13 22:28	10/10/13 14:37	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Client Sample ID: EX10/11-S1(20.0)
Date Collected: 10/03/13 14:10
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-31
Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1.9**		0.99		mg/Kg		10/08/13 13:35	10/09/13 15:43	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		10/08/13 13:35	10/09/13 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.04*		*0 - 1*	*10/08/13 13:35*	*10/09/13 15:43*	*1*
p-Terphenyl	*90*		*38 - 148*	*10/08/13 13:35*	*10/09/13 15:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-145894/9
Matrix: Solid
Analysis Batch: 145894

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			10/09/13 20:26	1
Acetone	ND		50		ug/Kg			10/09/13 20:26	1
Benzene	ND		5.0		ug/Kg			10/09/13 20:26	1
Dichlorobromomethane	ND		5.0		ug/Kg			10/09/13 20:26	1
Bromobenzene	ND		5.0		ug/Kg			10/09/13 20:26	1
Chlorobromomethane	ND		20		ug/Kg			10/09/13 20:26	1
Bromoform	ND		5.0		ug/Kg			10/09/13 20:26	1
Bromomethane	ND		10		ug/Kg			10/09/13 20:26	1
2-Butanone (MEK)	ND		50		ug/Kg			10/09/13 20:26	1
n-Butylbenzene	ND		5.0		ug/Kg			10/09/13 20:26	1
sec-Butylbenzene	ND		5.0		ug/Kg			10/09/13 20:26	1
tert-Butylbenzene	ND		5.0		ug/Kg			10/09/13 20:26	1
Carbon disulfide	ND		5.0		ug/Kg			10/09/13 20:26	1
Carbon tetrachloride	ND		5.0		ug/Kg			10/09/13 20:26	1
Chlorobenzene	ND		5.0		ug/Kg			10/09/13 20:26	1
Chloroethane	ND		10		ug/Kg			10/09/13 20:26	1
Chloroform	ND		5.0		ug/Kg			10/09/13 20:26	1
Chloromethane	ND		10		ug/Kg			10/09/13 20:26	1
2-Chlorotoluene	ND		5.0		ug/Kg			10/09/13 20:26	1
4-Chlorotoluene	ND		5.0		ug/Kg			10/09/13 20:26	1
Chlorodibromomethane	ND		5.0		ug/Kg			10/09/13 20:26	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			10/09/13 20:26	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			10/09/13 20:26	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			10/09/13 20:26	1
1,3-Dichloropropane	ND		5.0		ug/Kg			10/09/13 20:26	1
1,1-Dichloropropene	ND		5.0		ug/Kg			10/09/13 20:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			10/09/13 20:26	1
Ethylene Dibromide	ND		5.0		ug/Kg			10/09/13 20:26	1
Dibromomethane	ND		10		ug/Kg			10/09/13 20:26	1
Dichlorodifluoromethane	ND		10		ug/Kg			10/09/13 20:26	1
1,1-Dichloroethane	ND		5.0		ug/Kg			10/09/13 20:26	1
1,2-Dichloroethane	ND		5.0		ug/Kg			10/09/13 20:26	1
1,1-Dichloroethene	ND		5.0		ug/Kg			10/09/13 20:26	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			10/09/13 20:26	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			10/09/13 20:26	1
1,2-Dichloropropane	ND		5.0		ug/Kg			10/09/13 20:26	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			10/09/13 20:26	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			10/09/13 20:26	1
Ethylbenzene	ND		5.0		ug/Kg			10/09/13 20:26	1
Hexachlorobutadiene	ND		5.0		ug/Kg			10/09/13 20:26	1
2-Hexanone	ND		50		ug/Kg			10/09/13 20:26	1
Isopropylbenzene	ND		5.0		ug/Kg			10/09/13 20:26	1
4-Isopropyltoluene	ND		5.0		ug/Kg			10/09/13 20:26	1
Methylene Chloride	ND		10		ug/Kg			10/09/13 20:26	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			10/09/13 20:26	1
Naphthalene	ND		10		ug/Kg			10/09/13 20:26	1
N-Propylbenzene	ND		5.0		ug/Kg			10/09/13 20:26	1
Styrene	ND		5.0		ug/Kg			10/09/13 20:26	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-145894/9
Matrix: Solid
Analysis Batch: 145894

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			10/09/13 20:26	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			10/09/13 20:26	1
Tetrachloroethene	ND		5.0		ug/Kg			10/09/13 20:26	1
Toluene	ND		5.0		ug/Kg			10/09/13 20:26	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			10/09/13 20:26	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			10/09/13 20:26	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			10/09/13 20:26	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			10/09/13 20:26	1
Trichloroethene	ND		5.0		ug/Kg			10/09/13 20:26	1
Trichlorofluoromethane	ND		5.0		ug/Kg			10/09/13 20:26	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			10/09/13 20:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			10/09/13 20:26	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			10/09/13 20:26	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			10/09/13 20:26	1
Vinyl acetate	ND		50		ug/Kg			10/09/13 20:26	1
Vinyl chloride	ND		5.0		ug/Kg			10/09/13 20:26	1
Xylenes, Total	ND		10		ug/Kg			10/09/13 20:26	1
2,2-Dichloropropane	ND		5.0		ug/Kg			10/09/13 20:26	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			10/09/13 20:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*45 - 131*		*10/09/13 20:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*		*10/09/13 20:26*	*1*
Toluene-d8 (Surr)	*99*		*58 - 140*		*10/09/13 20:26*	*1*

Lab Sample ID: LCS 720-145894/10
Matrix: Solid
Analysis Batch: 145894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	51.4		ug/Kg		103	70 - 144
Acetone	250	230		ug/Kg		92	30 - 162
Benzene	50.0	50.2		ug/Kg		100	70 - 130
Dichlorobromomethane	50.0	51.8		ug/Kg		104	70 - 131
Bromobenzene	50.0	53.4		ug/Kg		107	70 - 130
Chlorobromomethane	50.0	52.4		ug/Kg		105	70 - 130
Bromoform	50.0	59.5		ug/Kg		119	59 - 158
Bromomethane	50.0	43.5		ug/Kg		87	59 - 132
2-Butanone (MEK)	250	251		ug/Kg		100	53 - 124
n-Butylbenzene	50.0	54.1		ug/Kg		108	70 - 142
sec-Butylbenzene	50.0	50.7		ug/Kg		101	70 - 136
tert-Butylbenzene	50.0	52.8		ug/Kg		106	70 - 130
Carbon disulfide	50.0	50.7		ug/Kg		101	60 - 140
Carbon tetrachloride	50.0	51.8		ug/Kg		104	70 - 138
Chlorobenzene	50.0	50.6		ug/Kg		101	70 - 130
Chloroethane	50.0	45.6		ug/Kg		91	65 - 130
Chloroform	50.0	49.6		ug/Kg		99	77 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-145894/10
Matrix: Solid
Analysis Batch: 145894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	42.3		ug/Kg		85	55 - 140
2-Chlorotoluene	50.0	53.5		ug/Kg		107	70 - 138
4-Chlorotoluene	50.0	52.2		ug/Kg		104	70 - 136
Chlorodibromomethane	50.0	52.7		ug/Kg		105	70 - 146
1,2-Dichlorobenzene	50.0	51.8		ug/Kg		104	70 - 130
1,3-Dichlorobenzene	50.0	54.2		ug/Kg		108	70 - 131
1,4-Dichlorobenzene	50.0	51.8		ug/Kg		104	70 - 130
1,3-Dichloropropane	50.0	51.3		ug/Kg		103	70 - 140
1,1-Dichloropropene	50.0	57.6		ug/Kg		115	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	51.9		ug/Kg		104	60 - 145
Ethylene Dibromide	50.0	56.6		ug/Kg		113	70 - 140
Dibromomethane	50.0	49.1		ug/Kg		98	70 - 139
Dichlorodifluoromethane	50.0	38.5		ug/Kg		77	37 - 158
1,1-Dichloroethane	50.0	48.6		ug/Kg		97	70 - 130
1,2-Dichloroethane	50.0	51.5		ug/Kg		103	70 - 130
1,1-Dichloroethene	50.0	50.2		ug/Kg		100	76 - 122
cis-1,2-Dichloroethene	50.0	50.8		ug/Kg		102	70 - 138
trans-1,2-Dichloroethene	50.0	50.6		ug/Kg		101	67 - 130
1,2-Dichloropropane	50.0	52.3		ug/Kg		105	73 - 127
cis-1,3-Dichloropropene	50.0	53.0		ug/Kg		106	68 - 147
trans-1,3-Dichloropropene	50.0	53.0		ug/Kg		106	70 - 136
Ethylbenzene	50.0	50.9		ug/Kg		102	80 - 137
Hexachlorobutadiene	50.0	47.5		ug/Kg		95	70 - 132
2-Hexanone	250	270		ug/Kg		108	44 - 133
Isopropylbenzene	50.0	55.9		ug/Kg		112	88 - 128
4-Isopropyltoluene	50.0	52.0		ug/Kg		104	70 - 133
Methylene Chloride	50.0	48.3		ug/Kg		97	70 - 134
4-Methyl-2-pentanone (MIBK)	250	281		ug/Kg		112	60 - 160
Naphthalene	50.0	51.9		ug/Kg		104	60 - 147
N-Propylbenzene	50.0	52.8		ug/Kg		106	70 - 130
Styrene	50.0	53.7		ug/Kg		107	70 - 130
1,1,1,2-Tetrachloroethane	50.0	55.5		ug/Kg		111	70 - 130
1,1,2,2-Tetrachloroethane	50.0	53.0		ug/Kg		106	70 - 146
Tetrachloroethene	50.0	55.6		ug/Kg		111	70 - 132
Toluene	50.0	49.3		ug/Kg		99	80 - 128
1,2,3-Trichlorobenzene	50.0	51.9		ug/Kg		104	60 - 140
1,2,4-Trichlorobenzene	50.0	52.1		ug/Kg		104	60 - 140
1,1,1-Trichloroethane	50.0	51.0		ug/Kg		102	70 - 130
1,1,2-Trichloroethane	50.0	53.8		ug/Kg		108	70 - 130
Trichloroethene	50.0	53.6		ug/Kg		107	70 - 133
Trichlorofluoromethane	50.0	48.0		ug/Kg		96	60 - 140
1,2,3-Trichloropropane	50.0	52.5		ug/Kg		105	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.5		ug/Kg		105	60 - 140
1,2,4-Trimethylbenzene	50.0	53.7		ug/Kg		107	70 - 130
1,3,5-Trimethylbenzene	50.0	52.4		ug/Kg		105	70 - 131
Vinyl acetate	50.0	63.0		ug/Kg		126	38 - 176
Vinyl chloride	50.0	41.2		ug/Kg		82	58 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-145894/10
Matrix: Solid
Analysis Batch: 145894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	100	112		ug/Kg		112	70 - 146
o-Xylene	50.0	53.3		ug/Kg		107	70 - 140
2,2-Dichloropropane	50.0	52.1		ug/Kg		104	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*105*		*58 - 140*

Lab Sample ID: LCS 720-145894/12
Matrix: Solid
Analysis Batch: 145894

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1020		ug/Kg		102	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*107*		*58 - 140*

Lab Sample ID: LCSD 720-145894/11
Matrix: Solid
Analysis Batch: 145894

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	52.2		ug/Kg		104	70 - 144	2	20
Acetone	250	225		ug/Kg		90	30 - 162	2	30
Benzene	50.0	50.6		ug/Kg		101	70 - 130	1	20
Dichlorobromomethane	50.0	52.0		ug/Kg		104	70 - 131	0	20
Bromobenzene	50.0	52.9		ug/Kg		106	70 - 130	1	20
Chlorobromomethane	50.0	52.7		ug/Kg		105	70 - 130	0	20
Bromoform	50.0	57.9		ug/Kg		116	59 - 158	3	20
Bromomethane	50.0	43.7		ug/Kg		87	59 - 132	0	20
2-Butanone (MEK)	250	244		ug/Kg		97	53 - 124	3	20
n-Butylbenzene	50.0	54.9		ug/Kg		110	70 - 142	2	20
sec-Butylbenzene	50.0	51.1		ug/Kg		102	70 - 136	1	20
tert-Butylbenzene	50.0	53.3		ug/Kg		107	70 - 130	1	20
Carbon disulfide	50.0	50.4		ug/Kg		101	60 - 140	1	20
Carbon tetrachloride	50.0	52.5		ug/Kg		105	70 - 138	1	20
Chlorobenzene	50.0	50.6		ug/Kg		101	70 - 130	0	20
Chloroethane	50.0	45.1		ug/Kg		90	65 - 130	1	20
Chloroform	50.0	49.5		ug/Kg		99	77 - 127	0	20
Chloromethane	50.0	42.6		ug/Kg		85	55 - 140	1	20
2-Chlorotoluene	50.0	54.0		ug/Kg		108	70 - 138	1	20
4-Chlorotoluene	50.0	52.0		ug/Kg		104	70 - 136	0	20
Chlorodibromomethane	50.0	52.9		ug/Kg		106	70 - 146	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-145894/11
Matrix: Solid
Analysis Batch: 145894

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	51.3		ug/Kg		103	70 - 130	1	20
1,3-Dichlorobenzene	50.0	53.8		ug/Kg		108	70 - 131	1	20
1,4-Dichlorobenzene	50.0	51.8		ug/Kg		104	70 - 130	0	20
1,3-Dichloropropane	50.0	50.8		ug/Kg		102	70 - 140	1	20
1,1-Dichloropropene	50.0	58.1		ug/Kg		116	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	50.0	53.8		ug/Kg		108	60 - 145	4	20
Ethylene Dibromide	50.0	56.0		ug/Kg		112	70 - 140	1	20
Dibromomethane	50.0	49.7		ug/Kg		99	70 - 139	1	20
Dichlorodifluoromethane	50.0	38.2		ug/Kg		76	37 - 158	1	20
1,1-Dichloroethane	50.0	49.1		ug/Kg		98	70 - 130	1	20
1,2-Dichloroethane	50.0	50.9		ug/Kg		102	70 - 130	1	20
1,1-Dichloroethene	50.0	49.3		ug/Kg		99	76 - 122	2	20
cis-1,2-Dichloroethene	50.0	51.5		ug/Kg		103	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	51.9		ug/Kg		104	67 - 130	2	20
1,2-Dichloropropane	50.0	52.3		ug/Kg		105	73 - 127	0	20
cis-1,3-Dichloropropene	50.0	53.6		ug/Kg		107	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	53.6		ug/Kg		107	70 - 136	1	20
Ethylbenzene	50.0	50.9		ug/Kg		102	80 - 137	0	20
Hexachlorobutadiene	50.0	49.8		ug/Kg		100	70 - 132	5	20
2-Hexanone	250	256		ug/Kg		103	44 - 133	5	20
Isopropylbenzene	50.0	56.0		ug/Kg		112	88 - 128	0	20
4-Isopropyltoluene	50.0	52.4		ug/Kg		105	70 - 133	1	20
Methylene Chloride	50.0	48.7		ug/Kg		97	70 - 134	1	20
4-Methyl-2-pentanone (MIBK)	250	269		ug/Kg		107	60 - 160	4	20
Naphthalene	50.0	52.0		ug/Kg		104	60 - 147	0	20
N-Propylbenzene	50.0	53.3		ug/Kg		107	70 - 130	1	20
Styrene	50.0	53.5		ug/Kg		107	70 - 130	0	20
1,1,1,2-Tetrachloroethane	50.0	55.9		ug/Kg		112	70 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	49.9		ug/Kg		100	70 - 146	6	20
Tetrachloroethene	50.0	56.2		ug/Kg		112	70 - 132	1	20
Toluene	50.0	49.6		ug/Kg		99	80 - 128	1	20
1,2,3-Trichlorobenzene	50.0	53.1		ug/Kg		106	60 - 140	2	20
1,2,4-Trichlorobenzene	50.0	54.4		ug/Kg		109	60 - 140	4	20
1,1,1-Trichloroethane	50.0	52.1		ug/Kg		104	70 - 130	2	20
1,1,2-Trichloroethane	50.0	53.2		ug/Kg		106	70 - 130	1	20
Trichloroethene	50.0	53.7		ug/Kg		107	70 - 133	0	20
Trichlorofluoromethane	50.0	47.7		ug/Kg		95	60 - 140	1	20
1,2,3-Trichloropropane	50.0	51.9		ug/Kg		104	70 - 146	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.2		ug/Kg		104	60 - 140	1	20
1,2,4-Trimethylbenzene	50.0	53.7		ug/Kg		107	70 - 130	0	20
1,3,5-Trimethylbenzene	50.0	52.7		ug/Kg		105	70 - 131	1	20
Vinyl acetate	50.0	62.1		ug/Kg		124	38 - 176	1	20
Vinyl chloride	50.0	40.2		ug/Kg		80	58 - 125	3	20
m-Xylene & p-Xylene	100	113		ug/Kg		113	70 - 146	0	20
o-Xylene	50.0	53.0		ug/Kg		106	70 - 140	1	20
2,2-Dichloropropane	50.0	55.8		ug/Kg		112	70 - 162	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-145894/11
Matrix: Solid
Analysis Batch: 145894

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*107*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*106*		*58 - 140*

Lab Sample ID: LCSD 720-145894/13
Matrix: Solid
Analysis Batch: 145894

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1030		ug/Kg		103	61 - 128	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*101*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*108*		*58 - 140*

Lab Sample ID: MB 720-145910/4
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			10/10/13 08:41	1
Acetone	ND		50		ug/Kg			10/10/13 08:41	1
Benzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Dichlorobromomethane	ND		5.0		ug/Kg			10/10/13 08:41	1
Bromobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Chlorobromomethane	ND		20		ug/Kg			10/10/13 08:41	1
Bromoform	ND		5.0		ug/Kg			10/10/13 08:41	1
Bromomethane	ND		10		ug/Kg			10/10/13 08:41	1
2-Butanone (MEK)	ND		50		ug/Kg			10/10/13 08:41	1
n-Butylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
sec-Butylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
tert-Butylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Carbon disulfide	ND		5.0		ug/Kg			10/10/13 08:41	1
Carbon tetrachloride	ND		5.0		ug/Kg			10/10/13 08:41	1
Chlorobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Chloroethane	ND		10		ug/Kg			10/10/13 08:41	1
Chloroform	ND		5.0		ug/Kg			10/10/13 08:41	1
Chloromethane	ND		10		ug/Kg			10/10/13 08:41	1
2-Chlorotoluene	ND		5.0		ug/Kg			10/10/13 08:41	1
4-Chlorotoluene	ND		5.0		ug/Kg			10/10/13 08:41	1
Chlorodibromomethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,3-Dichloropropane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1-Dichloropropene	ND		5.0		ug/Kg			10/10/13 08:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-145910/4
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			10/10/13 08:41	1
Ethylene Dibromide	ND		5.0		ug/Kg			10/10/13 08:41	1
Dibromomethane	ND		10		ug/Kg			10/10/13 08:41	1
Dichlorodifluoromethane	ND		10		ug/Kg			10/10/13 08:41	1
1,1-Dichloroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2-Dichloroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1-Dichloroethene	ND		5.0		ug/Kg			10/10/13 08:41	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			10/10/13 08:41	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2-Dichloropropane	ND		5.0		ug/Kg			10/10/13 08:41	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			10/10/13 08:41	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			10/10/13 08:41	1
Ethylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Hexachlorobutadiene	ND		5.0		ug/Kg			10/10/13 08:41	1
2-Hexanone	ND		50		ug/Kg			10/10/13 08:41	1
Isopropylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
4-Isopropyltoluene	ND		5.0		ug/Kg			10/10/13 08:41	1
Methylene Chloride	ND		10		ug/Kg			10/10/13 08:41	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			10/10/13 08:41	1
Naphthalene	ND		10		ug/Kg			10/10/13 08:41	1
N-Propylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Styrene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
Tetrachloroethene	ND		5.0		ug/Kg			10/10/13 08:41	1
Toluene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
Trichloroethene	ND		5.0		ug/Kg			10/10/13 08:41	1
Trichlorofluoromethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Vinyl acetate	ND		50		ug/Kg			10/10/13 08:41	1
Vinyl chloride	ND		5.0		ug/Kg			10/10/13 08:41	1
Xylenes, Total	ND		10		ug/Kg			10/10/13 08:41	1
2,2-Dichloropropane	ND		5.0		ug/Kg			10/10/13 08:41	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			10/10/13 08:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*45 - 131*		*10/10/13 08:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*		*10/10/13 08:41*	*1*
Toluene-d8 (Surr)	*101*		*58 - 140*		*10/10/13 08:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-145910/10
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	49.0		ug/Kg		98	70 - 144
Acetone	250	212		ug/Kg		85	30 - 162
Benzene	50.0	47.9		ug/Kg		96	70 - 130
Dichlorobromomethane	50.0	50.4		ug/Kg		101	70 - 131
Bromobenzene	50.0	51.7		ug/Kg		103	70 - 130
Chlorobromomethane	50.0	54.6		ug/Kg		109	70 - 130
Bromoform	50.0	60.6		ug/Kg		121	59 - 158
Bromomethane	50.0	46.9		ug/Kg		94	59 - 132
2-Butanone (MEK)	250	211		ug/Kg		84	53 - 124
n-Butylbenzene	50.0	48.5		ug/Kg		97	70 - 142
sec-Butylbenzene	50.0	48.1		ug/Kg		96	70 - 136
tert-Butylbenzene	50.0	49.6		ug/Kg		99	70 - 130
Carbon disulfide	50.0	48.0		ug/Kg		96	60 - 140
Carbon tetrachloride	50.0	53.3		ug/Kg		107	70 - 138
Chlorobenzene	50.0	52.5		ug/Kg		105	70 - 130
Chloroethane	50.0	41.5		ug/Kg		83	65 - 130
Chloroform	50.0	50.1		ug/Kg		100	77 - 127
Chloromethane	50.0	35.1		ug/Kg		70	55 - 140
2-Chlorotoluene	50.0	47.2		ug/Kg		94	70 - 138
4-Chlorotoluene	50.0	46.5		ug/Kg		93	70 - 136
Chlorodibromomethane	50.0	56.2		ug/Kg		112	70 - 146
1,2-Dichlorobenzene	50.0	54.0		ug/Kg		108	70 - 130
1,3-Dichlorobenzene	50.0	54.1		ug/Kg		108	70 - 131
1,4-Dichlorobenzene	50.0	54.7		ug/Kg		109	70 - 130
1,3-Dichloropropane	50.0	51.2		ug/Kg		102	70 - 140
1,1-Dichloropropene	50.0	52.2		ug/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	57.1		ug/Kg		114	60 - 145
Ethylene Dibromide	50.0	56.1		ug/Kg		112	70 - 140
Dibromomethane	50.0	51.6		ug/Kg		103	70 - 139
Dichlorodifluoromethane	50.0	44.8		ug/Kg		90	37 - 158
1,1-Dichloroethane	50.0	46.7		ug/Kg		93	70 - 130
1,2-Dichloroethane	50.0	47.5		ug/Kg		95	70 - 130
1,1-Dichloroethene	50.0	51.7		ug/Kg		103	76 - 122
cis-1,2-Dichloroethene	50.0	46.4		ug/Kg		93	70 - 138
trans-1,2-Dichloroethene	50.0	52.7		ug/Kg		105	67 - 130
1,2-Dichloropropane	50.0	48.9		ug/Kg		98	73 - 127
cis-1,3-Dichloropropene	50.0	52.2		ug/Kg		104	68 - 147
trans-1,3-Dichloropropene	50.0	51.6		ug/Kg		103	70 - 136
Ethylbenzene	50.0	48.7		ug/Kg		97	80 - 137
Hexachlorobutadiene	50.0	58.7		ug/Kg		117	70 - 132
2-Hexanone	250	178		ug/Kg		71	44 - 133
Isopropylbenzene	50.0	51.7		ug/Kg		103	88 - 128
4-Isopropyltoluene	50.0	49.9		ug/Kg		100	70 - 133
Methylene Chloride	50.0	50.0		ug/Kg		100	70 - 134
4-Methyl-2-pentanone (MIBK)	250	184		ug/Kg		74	60 - 160
Naphthalene	50.0	53.6		ug/Kg		107	60 - 147
N-Propylbenzene	50.0	47.7		ug/Kg		95	70 - 130
Styrene	50.0	50.0		ug/Kg		100	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-145910/10
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	54.3		ug/Kg		109	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.0		ug/Kg		98	70 - 146
Tetrachloroethene	50.0	58.5		ug/Kg		117	70 - 132
Toluene	50.0	48.7		ug/Kg		97	80 - 128
1,2,3-Trichlorobenzene	50.0	58.3		ug/Kg		117	60 - 140
1,2,4-Trichlorobenzene	50.0	58.6		ug/Kg		117	60 - 140
1,1,1-Trichloroethane	50.0	50.8		ug/Kg		102	70 - 130
1,1,2-Trichloroethane	50.0	54.0		ug/Kg		108	70 - 130
Trichloroethene	50.0	55.8		ug/Kg		112	70 - 133
Trichlorofluoromethane	50.0	49.6		ug/Kg		99	60 - 140
1,2,3-Trichloropropane	50.0	50.6		ug/Kg		101	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.5		ug/Kg		117	60 - 140
1,2,4-Trimethylbenzene	50.0	49.7		ug/Kg		99	70 - 130
1,3,5-Trimethylbenzene	50.0	48.7		ug/Kg		97	70 - 131
Vinyl acetate	50.0	ND		ug/Kg		99	38 - 176
Vinyl chloride	50.0	40.5		ug/Kg		81	58 - 125
m-Xylene & p-Xylene	100	97.6		ug/Kg		98	70 - 146
o-Xylene	50.0	49.2		ug/Kg		98	70 - 140
2,2-Dichloropropane	50.0	51.0		ug/Kg		102	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCS 720-145910/7
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1090		ug/Kg		109	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCSD 720-145910/11
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	47.1		ug/Kg		94	70 - 144	4	20
Acetone	250	185		ug/Kg		74	30 - 162	13	30
Benzene	50.0	48.3		ug/Kg		97	70 - 130	1	20
Dichlorobromomethane	50.0	48.9		ug/Kg		98	70 - 131	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-145910/11
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	51.7		ug/Kg		103	70 - 130	0	20
Chlorobromomethane	50.0	53.7		ug/Kg		107	70 - 130	2	20
Bromoform	50.0	56.5		ug/Kg		113	59 - 158	7	20
Bromomethane	50.0	48.7		ug/Kg		97	59 - 132	4	20
2-Butanone (MEK)	250	205		ug/Kg		82	53 - 124	3	20
n-Butylbenzene	50.0	48.6		ug/Kg		97	70 - 142	0	20
sec-Butylbenzene	50.0	49.1		ug/Kg		98	70 - 136	2	20
tert-Butylbenzene	50.0	50.5		ug/Kg		101	70 - 130	2	20
Carbon disulfide	50.0	49.1		ug/Kg		98	60 - 140	2	20
Carbon tetrachloride	50.0	54.4		ug/Kg		109	70 - 138	2	20
Chlorobenzene	50.0	53.0		ug/Kg		106	70 - 130	1	20
Chloroethane	50.0	43.0		ug/Kg		86	65 - 130	4	20
Chloroform	50.0	50.3		ug/Kg		101	77 - 127	0	20
Chloromethane	50.0	35.4		ug/Kg		71	55 - 140	1	20
2-Chlorotoluene	50.0	47.7		ug/Kg		95	70 - 138	1	20
4-Chlorotoluene	50.0	46.5		ug/Kg		93	70 - 136	0	20
Chlorodibromomethane	50.0	54.2		ug/Kg		108	70 - 146	4	20
1,2-Dichlorobenzene	50.0	52.1		ug/Kg		104	70 - 130	3	20
1,3-Dichlorobenzene	50.0	53.7		ug/Kg		107	70 - 131	1	20
1,4-Dichlorobenzene	50.0	53.1		ug/Kg		106	70 - 130	3	20
1,3-Dichloropropane	50.0	49.8		ug/Kg		100	70 - 140	3	20
1,1-Dichloropropene	50.0	53.2		ug/Kg		106	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	48.9		ug/Kg		98	60 - 145	15	20
Ethylene Dibromide	50.0	52.9		ug/Kg		106	70 - 140	6	20
Dibromomethane	50.0	49.0		ug/Kg		98	70 - 139	5	20
Dichlorodifluoromethane	50.0	45.9		ug/Kg		92	37 - 158	2	20
1,1-Dichloroethane	50.0	47.5		ug/Kg		95	70 - 130	2	20
1,2-Dichloroethane	50.0	46.1		ug/Kg		92	70 - 130	3	20
1,1-Dichloroethene	50.0	53.7		ug/Kg		107	76 - 122	4	20
cis-1,2-Dichloroethene	50.0	46.7		ug/Kg		93	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	53.3		ug/Kg		107	67 - 130	1	20
1,2-Dichloropropane	50.0	48.3		ug/Kg		97	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	51.8		ug/Kg		104	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	49.5		ug/Kg		99	70 - 136	4	20
Ethylbenzene	50.0	49.1		ug/Kg		98	80 - 137	1	20
Hexachlorobutadiene	50.0	57.5		ug/Kg		115	70 - 132	2	20
2-Hexanone	250	159		ug/Kg		64	44 - 133	11	20
Isopropylbenzene	50.0	53.0		ug/Kg		106	88 - 128	3	20
4-Isopropyltoluene	50.0	50.8		ug/Kg		102	70 - 133	2	20
Methylene Chloride	50.0	50.3		ug/Kg		101	70 - 134	1	20
4-Methyl-2-pentanone (MIBK)	250	166		ug/Kg		67	60 - 160	10	20
Naphthalene	50.0	48.5		ug/Kg		97	60 - 147	10	20
N-Propylbenzene	50.0	48.5		ug/Kg		97	70 - 130	2	20
Styrene	50.0	50.2		ug/Kg		100	70 - 130	0	20
1,1,1,2-Tetrachloroethane	50.0	54.1		ug/Kg		108	70 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	44.5		ug/Kg		89	70 - 146	10	20
Tetrachloroethene	50.0	60.1		ug/Kg		120	70 - 132	3	20
Toluene	50.0	49.4		ug/Kg		99	80 - 128	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-145910/11
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene			50.0	54.4		ug/Kg		109	60 - 140	7	20
1,2,4-Trichlorobenzene			50.0	56.0		ug/Kg		112	60 - 140	4	20
1,1,1-Trichloroethane			50.0	52.2		ug/Kg		104	70 - 130	3	20
1,1,2-Trichloroethane			50.0	51.1		ug/Kg		102	70 - 130	5	20
Trichloroethene			50.0	56.6		ug/Kg		113	70 - 133	1	20
Trichlorofluoromethane			50.0	51.2		ug/Kg		102	60 - 140	3	20
1,2,3-Trichloropropane			50.0	45.7		ug/Kg		91	70 - 146	10	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	61.4		ug/Kg		123	60 - 140	5	20
1,2,4-Trimethylbenzene			50.0	49.8		ug/Kg		100	70 - 130	0	20
1,3,5-Trimethylbenzene			50.0	49.4		ug/Kg		99	70 - 131	1	20
Vinyl acetate			50.0	ND		ug/Kg		91	38 - 176	8	20
Vinyl chloride			50.0	42.0		ug/Kg		84	58 - 125	4	20
m-Xylene & p-Xylene			100	99.4		ug/Kg		99	70 - 146	2	20
o-Xylene			50.0	50.0		ug/Kg		100	70 - 140	2	20
2,2-Dichloropropane			50.0	52.3		ug/Kg		105	70 - 162	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCSD 720-145910/8
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1010		ug/Kg		101	61 - 128	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-145762/1-A
Matrix: Solid
Analysis Batch: 145826

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 145762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		10/08/13 13:35	10/09/13 18:34	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		10/08/13 13:35	10/09/13 18:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.006*		*0 - 1*	*10/08/13 13:35*	*10/09/13 18:34*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-145762/1-A
Matrix: Solid
Analysis Batch: 145826

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 145762

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	100		38 - 148	10/08/13 13:35	10/09/13 18:34	1

Lab Sample ID: LCS 720-145762/2-A
Matrix: Solid
Analysis Batch: 145826

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 145762

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.2	82.8		mg/Kg		100	36 - 112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	105		38 - 148

Lab Sample ID: LCSD 720-145762/3-A
Matrix: Solid
Analysis Batch: 145826

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 145762

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	82.3	83.0		mg/Kg		101	36 - 112	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	107		38 - 148

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-145806/1-A
Matrix: Solid
Analysis Batch: 145901

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 145806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		10/08/13 20:58	10/09/13 18:31	1
Arsenic	ND		1.0		mg/Kg		10/08/13 20:58	10/09/13 18:31	1
Barium	ND		0.50		mg/Kg		10/08/13 20:58	10/09/13 18:31	1
Beryllium	ND		0.10		mg/Kg		10/08/13 20:58	10/09/13 18:31	1
Cadmium	ND		0.13		mg/Kg		10/08/13 20:58	10/09/13 18:31	1
Chromium	ND		0.50		mg/Kg		10/08/13 20:58	10/09/13 18:31	1
Cobalt	ND		0.20		mg/Kg		10/08/13 20:58	10/09/13 18:31	1
Copper	ND		1.5		mg/Kg		10/08/13 20:58	10/09/13 18:31	1
Lead	ND		0.50		mg/Kg		10/08/13 20:58	10/09/13 18:31	1
Molybdenum	ND		0.50		mg/Kg		10/08/13 20:58	10/09/13 18:31	1
Nickel	ND		0.50		mg/Kg		10/08/13 20:58	10/09/13 18:31	1
Selenium	ND		1.0		mg/Kg		10/08/13 20:58	10/09/13 18:31	1
Silver	ND		0.25		mg/Kg		10/08/13 20:58	10/09/13 18:31	1
Thallium	ND		0.50		mg/Kg		10/08/13 20:58	10/09/13 18:31	1
Vanadium	ND		0.50		mg/Kg		10/08/13 20:58	10/09/13 18:31	1
Zinc	ND		1.5		mg/Kg		10/08/13 20:58	10/09/13 18:31	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-145806/2-A
Matrix: Solid
Analysis Batch: 145901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 145806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	46.7		mg/Kg		93	80 - 120
Arsenic	50.0	48.0		mg/Kg		96	80 - 120
Barium	50.0	48.8		mg/Kg		98	80 - 120
Beryllium	50.0	49.0		mg/Kg		98	80 - 120
Cadmium	50.0	50.1		mg/Kg		100	80 - 120
Chromium	50.0	50.0		mg/Kg		100	80 - 120
Cobalt	50.0	50.0		mg/Kg		100	80 - 120
Copper	50.0	49.2		mg/Kg		98	80 - 120
Lead	50.0	50.1		mg/Kg		100	80 - 120
Molybdenum	50.0	49.2		mg/Kg		98	80 - 120
Nickel	50.0	49.4		mg/Kg		99	80 - 120
Selenium	50.0	46.7		mg/Kg		93	80 - 120
Silver	25.0	25.0		mg/Kg		100	80 - 120
Thallium	50.0	49.7		mg/Kg		99	80 - 120
Vanadium	50.0	48.7		mg/Kg		97	80 - 120
Zinc	50.0	49.4		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 720-145806/3-A
Matrix: Solid
Analysis Batch: 145901

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 145806

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	48.5		mg/Kg		97	80 - 120	4	20
Arsenic	50.0	48.9		mg/Kg		98	80 - 120	2	20
Barium	50.0	50.4		mg/Kg		101	80 - 120	3	20
Beryllium	50.0	49.4		mg/Kg		99	80 - 120	1	20
Cadmium	50.0	51.3		mg/Kg		103	80 - 120	2	20
Chromium	50.0	50.0		mg/Kg		100	80 - 120	0	20
Cobalt	50.0	51.2		mg/Kg		102	80 - 120	2	20
Copper	50.0	50.2		mg/Kg		100	80 - 120	2	20
Lead	50.0	50.9		mg/Kg		102	80 - 120	2	20
Molybdenum	50.0	50.6		mg/Kg		101	80 - 120	3	20
Nickel	50.0	50.3		mg/Kg		101	80 - 120	2	20
Selenium	50.0	47.2		mg/Kg		94	80 - 120	1	20
Silver	25.0	25.7		mg/Kg		103	80 - 120	3	20
Thallium	50.0	50.7		mg/Kg		101	80 - 120	2	20
Vanadium	50.0	49.4		mg/Kg		99	80 - 120	1	20
Zinc	50.0	50.7		mg/Kg		101	80 - 120	3	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-145811/1-A
Matrix: Solid
Analysis Batch: 145959

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 145811

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		10/08/13 22:28	10/10/13 13:30	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-145811/2-A
Matrix: Solid
Analysis Batch: 145959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 145811

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.833		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 720-145811/3-A
Matrix: Solid
Analysis Batch: 145959

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 145811

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.833	0.842		mg/Kg		101	80 - 120	1	20

GC/MS VOA

Analysis Batch: 145894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52758-5	EX6-2-SPOILS-COMP.A	Total/NA	Solid	8260B	145933
720-52758-10	EX6-2-SPOILS-COMPB.	Total/NA	Solid	8260B	145933
720-52758-15	EX3-2-SPOILS-COMP.	Total/NA	Solid	8260B	145933
LCS 720-145894/10	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-145894/12	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-145894/11	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-145894/13	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-145894/9	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 145910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52758-20	EX5-2-SPOILS-COMP.	Total/NA	Solid	8260B	145942
720-52758-25	EX4-2-SPOILS-COMP.A	Total/NA	Solid	8260B	145942
720-52758-30	EX4-2-SPOILS-COMP.B	Total/NA	Solid	8260B	145942
LCS 720-145910/10	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-145910/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-145910/11	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-145910/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-145910/4	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 145933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52758-5	EX6-2-SPOILS-COMP.A	Total/NA	Solid	5030B	
720-52758-10	EX6-2-SPOILS-COMPB.	Total/NA	Solid	5030B	
720-52758-15	EX3-2-SPOILS-COMP.	Total/NA	Solid	5030B	

Prep Batch: 145942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52758-20	EX5-2-SPOILS-COMP.	Total/NA	Solid	5030B	
720-52758-25	EX4-2-SPOILS-COMP.A	Total/NA	Solid	5030B	
720-52758-30	EX4-2-SPOILS-COMP.B	Total/NA	Solid	5030B	

GC Semi VOA

Prep Batch: 145762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52758-5	EX6-2-SPOILS-COMP.A	Silica Gel Cleanup	Solid	3546	
720-52758-10	EX6-2-SPOILS-COMPB.	Silica Gel Cleanup	Solid	3546	
720-52758-15	EX3-2-SPOILS-COMP.	Silica Gel Cleanup	Solid	3546	
720-52758-20	EX5-2-SPOILS-COMP.	Silica Gel Cleanup	Solid	3546	
720-52758-25	EX4-2-SPOILS-COMP.A	Silica Gel Cleanup	Solid	3546	
720-52758-30	EX4-2-SPOILS-COMP.B	Silica Gel Cleanup	Solid	3546	
720-52758-31	EX10/11-S1(20.0)	Silica Gel Cleanup	Solid	3546	
LCS 720-145762/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-145762/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-145762/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 145826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52758-5	EX6-2-SPOILS-COMP.A	Silica Gel Cleanup	Solid	8015B	145762

GC Semi VOA (Continued)

Analysis Batch: 145826 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52758-15	EX3-2-SPOILS-COMP.	Silica Gel Cleanup	Solid	8015B	145762
720-52758-20	EX5-2-SPOILS-COMP.	Silica Gel Cleanup	Solid	8015B	145762
720-52758-25	EX4-2-SPOILS-COMP.A	Silica Gel Cleanup	Solid	8015B	145762
720-52758-30	EX4-2-SPOILS-COMP.B	Silica Gel Cleanup	Solid	8015B	145762
LCS 720-145762/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	145762
LCSD 720-145762/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	145762
MB 720-145762/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	145762

Analysis Batch: 145827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52758-31	EX10/11-S1(20.0)	Silica Gel Cleanup	Solid	8015B	145762

Analysis Batch: 145912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52758-10	EX6-2-SPOILS-COMPB.	Silica Gel Cleanup	Solid	8015B	145762

Metals

Prep Batch: 145806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52758-5	EX6-2-SPOILS-COMP.A	Total/NA	Solid	3050B	
720-52758-10	EX6-2-SPOILS-COMPB.	Total/NA	Solid	3050B	
720-52758-15	EX3-2-SPOILS-COMP.	Total/NA	Solid	3050B	
720-52758-20	EX5-2-SPOILS-COMP.	Total/NA	Solid	3050B	
720-52758-25	EX4-2-SPOILS-COMP.A	Total/NA	Solid	3050B	
720-52758-30	EX4-2-SPOILS-COMP.B	Total/NA	Solid	3050B	
LCS 720-145806/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-145806/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-145806/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 145811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52758-5	EX6-2-SPOILS-COMP.A	Total/NA	Solid	7471A	
720-52758-10	EX6-2-SPOILS-COMPB.	Total/NA	Solid	7471A	
720-52758-15	EX3-2-SPOILS-COMP.	Total/NA	Solid	7471A	
720-52758-20	EX5-2-SPOILS-COMP.	Total/NA	Solid	7471A	
720-52758-25	EX4-2-SPOILS-COMP.A	Total/NA	Solid	7471A	
720-52758-30	EX4-2-SPOILS-COMP.B	Total/NA	Solid	7471A	
LCS 720-145811/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-145811/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-145811/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 145901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52758-5	EX6-2-SPOILS-COMP.A	Total/NA	Solid	6010B	145806
720-52758-10	EX6-2-SPOILS-COMPB.	Total/NA	Solid	6010B	145806
720-52758-15	EX3-2-SPOILS-COMP.	Total/NA	Solid	6010B	145806
720-52758-20	EX5-2-SPOILS-COMP.	Total/NA	Solid	6010B	145806
720-52758-25	EX4-2-SPOILS-COMP.A	Total/NA	Solid	6010B	145806
720-52758-30	EX4-2-SPOILS-COMP.B	Total/NA	Solid	6010B	145806

Metals (Continued)

Analysis Batch: 145901 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-145806/2-A	Lab Control Sample	Total/NA	Solid	6010B	145806
LCSD 720-145806/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	145806
MB 720-145806/1-A	Method Blank	Total/NA	Solid	6010B	145806

Analysis Batch: 145959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52758-5	EX6-2-SPOILS-COMP.A	Total/NA	Solid	7471A	145811
720-52758-10	EX6-2-SPOILS-COMPB.	Total/NA	Solid	7471A	145811
720-52758-15	EX3-2-SPOILS-COMP.	Total/NA	Solid	7471A	145811
720-52758-20	EX5-2-SPOILS-COMP.	Total/NA	Solid	7471A	145811
720-52758-25	EX4-2-SPOILS-COMP.A	Total/NA	Solid	7471A	145811
720-52758-30	EX4-2-SPOILS-COMP.B	Total/NA	Solid	7471A	145811
LCS 720-145811/2-A	Lab Control Sample	Total/NA	Solid	7471A	145811
LCSD 720-145811/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	145811
MB 720-145811/1-A	Method Blank	Total/NA	Solid	7471A	145811

Client Sample ID: EX6-2-SPOILS-COMP.A

Lab Sample ID: 720-52758-5

Date Collected: 10/03/13 13:05

Matrix: Solid

Date Received: 10/03/13 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145933	10/09/13 17:00	ASC	TAL PLS
Total/NA	Analysis	8260B		1	145894	10/10/13 00:15	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			145762	10/08/13 13:35	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	145826	10/09/13 22:14	JL	TAL PLS
Total/NA	Prep	3050B			145806	10/08/13 20:58	ASB	TAL PLS
Total/NA	Analysis	6010B		4	145901	10/09/13 19:37	SLK	TAL PLS
Total/NA	Prep	7471A			145811	10/08/13 22:28	ASB	TAL PLS
Total/NA	Analysis	7471A		1	145959	10/10/13 14:21	EFH	TAL PLS

Client Sample ID: EX6-2-SPOILS-COMPB.

Lab Sample ID: 720-52758-10

Date Collected: 10/03/13 13:30

Matrix: Solid

Date Received: 10/03/13 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145933	10/09/13 17:00	ASC	TAL PLS
Total/NA	Analysis	8260B		1	145894	10/10/13 00:43	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			145762	10/08/13 13:35	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		3	145912	10/10/13 09:53	DCH	TAL PLS
Total/NA	Prep	3050B			145806	10/08/13 20:58	ASB	TAL PLS
Total/NA	Analysis	6010B		4	145901	10/09/13 19:41	SLK	TAL PLS
Total/NA	Prep	7471A			145811	10/08/13 22:28	ASB	TAL PLS
Total/NA	Analysis	7471A		1	145959	10/10/13 14:28	EFH	TAL PLS

Client Sample ID: EX3-2-SPOILS-COMP.

Lab Sample ID: 720-52758-15

Date Collected: 10/03/13 09:50

Matrix: Solid

Date Received: 10/03/13 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145933	10/09/13 17:00	ASC	TAL PLS
Total/NA	Analysis	8260B		1	145894	10/10/13 01:12	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			145762	10/08/13 13:35	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	145826	10/09/13 16:07	JL	TAL PLS
Total/NA	Prep	3050B			145806	10/08/13 20:58	ASB	TAL PLS
Total/NA	Analysis	6010B		4	145901	10/09/13 19:46	SLK	TAL PLS
Total/NA	Prep	7471A			145811	10/08/13 22:28	ASB	TAL PLS
Total/NA	Analysis	7471A		1	145959	10/10/13 14:30	EFH	TAL PLS

Client Sample ID: EX5-2-SPOILS-COMP.

Lab Sample ID: 720-52758-20

Date Collected: 10/03/13 12:25

Matrix: Solid

Date Received: 10/03/13 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145942	10/10/13 10:00	PDR	TAL PLS

Client Sample ID: EX5-2-SPOILS-COMP.

Lab Sample ID: 720-52758-20

Date Collected: 10/03/13 12:25

Matrix: Solid

Date Received: 10/03/13 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145910	10/10/13 13:20	LPL	TAL PLS
Silica Gel Cleanup	Prep	3546			145762	10/08/13 13:35	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	145826	10/09/13 16:32	JL	TAL PLS
Total/NA	Prep	3050B			145806	10/08/13 20:58	ASB	TAL PLS
Total/NA	Analysis	6010B		4	145901	10/09/13 19:50	SLK	TAL PLS
Total/NA	Prep	7471A			145811	10/08/13 22:28	ASB	TAL PLS
Total/NA	Analysis	7471A		1	145959	10/10/13 14:32	EFH	TAL PLS

Client Sample ID: EX4-2-SPOILS-COMP.A

Lab Sample ID: 720-52758-25

Date Collected: 10/03/13 10:25

Matrix: Solid

Date Received: 10/03/13 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145942	10/10/13 10:00	PDR	TAL PLS
Total/NA	Analysis	8260B		1	145910	10/10/13 13:46	LPL	TAL PLS
Silica Gel Cleanup	Prep	3546			145762	10/08/13 13:35	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	145826	10/09/13 16:56	JL	TAL PLS
Total/NA	Prep	3050B			145806	10/08/13 20:58	ASB	TAL PLS
Total/NA	Analysis	6010B		4	145901	10/09/13 19:55	SLK	TAL PLS
Total/NA	Prep	7471A			145811	10/08/13 22:28	ASB	TAL PLS
Total/NA	Analysis	7471A		1	145959	10/10/13 14:34	EFH	TAL PLS

Client Sample ID: EX4-2-SPOILS-COMP.B

Lab Sample ID: 720-52758-30

Date Collected: 10/03/13 10:45

Matrix: Solid

Date Received: 10/03/13 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145942	10/10/13 10:00	PDR	TAL PLS
Total/NA	Analysis	8260B		1	145910	10/10/13 14:12	LPL	TAL PLS
Silica Gel Cleanup	Prep	3546			145762	10/08/13 13:35	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	145826	10/09/13 17:20	JL	TAL PLS
Total/NA	Prep	3050B			145806	10/08/13 20:58	ASB	TAL PLS
Total/NA	Analysis	6010B		4	145901	10/09/13 19:59	SLK	TAL PLS
Total/NA	Prep	7471A			145811	10/08/13 22:28	ASB	TAL PLS
Total/NA	Analysis	7471A		1	145959	10/10/13 14:37	EFH	TAL PLS

Client Sample ID: EX10/11-S1(20.0)

Lab Sample ID: 720-52758-31

Date Collected: 10/03/13 14:10

Matrix: Solid

Date Received: 10/03/13 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			145762	10/08/13 13:35	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	145827	10/09/13 15:43	JL	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-52758-5	EX6-2-SPOILS-COMP.A	Solid	10/03/13 13:05	10/03/13 16:15
720-52758-10	EX6-2-SPOILS-COMPB.	Solid	10/03/13 13:30	10/03/13 16:15
720-52758-15	EX3-2-SPOILS-COMP.	Solid	10/03/13 09:50	10/03/13 16:15
720-52758-20	EX5-2-SPOILS-COMP.	Solid	10/03/13 12:25	10/03/13 16:15
720-52758-25	EX4-2-SPOILS-COMP.A	Solid	10/03/13 10:25	10/03/13 16:15
720-52758-30	EX4-2-SPOILS-COMP.B	Solid	10/03/13 10:45	10/03/13 16:15
720-52758-31	EX10/11-S1(20.0)	Solid	10/03/13 14:10	10/03/13 16:15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane ⊛ Pleasanton CA 94566-4756
Phone: (925) 484-1919 ⊛ Fax: (925) 600-3002

720-52758

Reference #: 149057

Date 10/3/13 (TAT) Page 1 of 4

10/10/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St., Walnut Creek, CA
Email: jschwartz@haleyaldrich.com
Bill To: Accts. Payable/H&A
Sampled By: VT, BSM
Attn: Accts Payable
Phone: 925-357-7355

Analysis Request

Sample ID	Date	Time	Mat. Matrix	Preserv.	Volatile Organics GC/MS (VOCs) X EPA 8260B: ___	HVOCs by ☐ EPA 8260B	EPA 8260B: X Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B: X Silica Gel X Diesel X Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS) ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Please complete prior to Eurofins: 1L Jar Comp. Sample Ex6.2-Spoils-Comp. A	Please complete prior to Eurofins: 1L Jar Comp. Sample Ex6.2-Spoils-Comp. B	Number of Containers
EX6-2-Spoils-1	10/3/13	1305	Soil	unp.																			X		1
EX6-2-Spoils-2	10/3/13	1310	Soil	unp.																			X		1
EX6-2-Spoils-3	10/3/13	1315	Soil	unp.																			X		1
EX6-2-Spoils-4	10/3/13	1320	Soil	unp.																			X		1
EX6-2-Spoils-5	10/3/13	1330	Soil	unp.																				X	1
EX6-2-Spoils-6	10/3/13	1335	Soil	unp.																				X	1
EX6-2-Spoils-7	10/3/13	1340	Soil	unp.																				X	1
EX6-2-Spoils-8	10/3/13	1345	Soil	unp.																				X	1
EX6-2-Spoils-Comp. A					X		X	X					X												
EX6-2-Spoils-Comp B.					X		X	X					X												

Project Info

Project Name/ #: Former Hansen Aggregates Radium Facility
PO#: # 39792
Credit Card Y/N:

Sample Receipt

of Containers:
Head Space:
Temp: 7.7°C
If yes, please call with payment information ASAP

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___

See Terms and Conditions on reverse

1) Relinquished by: [signature] Time
Brendan J. Mulholland 1615
Printed Name Date
Haley & Aldrich 10/3/13
Company

2) Relinquished by.
Signature Time
Printed Name Date
Company

3) Relinquished by
Signature Time
Printed Name Date
Company

720-52758 Chain of Custody

1) Received by: [signature] 1615
Signature Time
Justin Gonzales 10/3/13
Printed Name Date
TAP
Company

2) Received by
Signature Time
Printed Name Date
Company

3) Received by:
Signature Time
Printed Name Date
Company

Rev. 10/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 149057

720-52758

Date 10/3/13 (TM) Page 2 of 4

10/10/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St., Walnut Creek, CA
Email: jschwartz@haleyaldrich.com
Bill To: H&A
Sampled By: VT, BSM
Attn: Accts. Payable
Phone: 925-357-7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☒ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200 8 (ICP-MS)	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314 0	COD ☐ EPA 410 4 ☐ SM5220D ☐ Turbidity	Please composite prior to analysis. Global Comp.	Please composite prior to analysis. Spoils Comp.	Number of Containers
EX3-2-Spoils-1	10/3/13	0950	soil	unp.																		X			1
EX3-2-Spoils-2	10/3/13	0955	soil	unp.																		X			1
EX3-2-Spoils-3	10/3/13	1000	soil	unp.																		X			1
EX3-2-Spoils-4	10/3/13	1005	soil	unp.																		X			1
EX3-2-Spoils-Comp.					X		X	X					X												1
EX5-2-Spoils-1	10/3/13	1225	soil	unp.																			X		1
EX5-2-Spoils-2	10/3/13	1230	soil	unp.																			X		1
EX5-2-Spoils-3	10/3/13	1235	soil	unp.																			X		1
EX5-2-Spoils-4	10/3/13	1240	soil	unp.																			X		1
EX5-2-Spoils-Comp.					X		X	X					X												1

Project Info

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: # 39792
Credit Card Y/N:

Sample Receipt

of Containers:
Head Space:
Temp:
If yes, please call with payment information ASAP

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other

Report ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1615	Signature: Time:	Signature: Time:
Printed Name: Brendan J. Mulholland Date: 10/3/13	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1615	Signature: Time:	Signature: Time:
Printed Name: Justin Gonzalo Date: 10/3/13	Printed Name: Date:	Printed Name: Date:
Company: TAP	Company:	Company:

Rev 10/2012

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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane ⊛ Pleasanton CA 94566-4756
Phone: (925) 484-1919 ⊛ Fax: (925) 600-3002

720-52758

Reference #: 149057

Date 10/3/13 (TW) Page 3 of 4

10/10/2013

Report To

Attn: James Schwertz
Company: Haley & Aldrich
Address: 2033 N. Main St., Walnut Creek, CA
Email: jschwertz@haleyaldrich.com
Bill To: H&A
Sampled By: VT, BSM
Attn: Accts. Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B, ☒ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Please composite prior to analysis: 1 Lead Comp. Sample: EX4-2-Spoils Comp	Please composite prior to analysis: 1 Lead Comp. Sample: EX4-2-Spoils Comp	Number of Containers
EX4-2-Spoils-1	10/3/13	1025	Soil	unp.																				X		1
EX4-2-Spoils-2	10/3/13	1030	Soil	unp.																				X		1
EX4-2-Spoils-3	10/3/13	1035	Soil	unp.																				X		1
EX4-2-Spoils-4	10/3/13	1040	Soil	unp.																				X		1
EX4-2-Spoils-5	10/3/13	1045	Soil	unp.																					X	1
EX4-2-Spoils-6	10/3/13	1050	Soil	unp.																					X	1
EX4-2-Spoils-7	10/3/13	1055	Soil	unp.																					X	1
EX4-2-Spoils-8	10/3/13	1100	Soil	unp.																					X	1
EX4-2-Spoils-Comp-A					X		X	X					X													
EX4-2-Spoils-Comp-B					X		X	X					X													

Project Info

Project Name/ #: Former Hansen Aggregates Radium Facility
PO#: # 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp:

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other

Report ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:
Signature Time
Brendan J. Mulholland 1615
Printed Name Date
Haley & Aldrich 10/3/13
Company

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by
Signature Time
Printed Name Date
Company

1) Received by:
Signature 1615 Time
Justin Gonzales 10/3/13
Printed Name Date
TAP
Company

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by:
Signature Time
Printed Name Date
Company

Rev 10/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-52758

Reference #: 149057

Date 10/3/13 (Th.) Page 4 of 4

10/10/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St., Walnut Creek, CA
Email: JSchwartz@haleyaldrich.com
Bill To: H&A
Sampled By: VT, BJM
Attn: Accts. Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Mat rix	Preserv.	Volatile Organics GC/MS (VOCs) ☐-EPA-8260B	HVOCs by ☐ EPA 8260B	EPA 8260B. ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐200.7 ☐ Lead ☐ LUFT ☐RCRA ☐ Other: ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS) ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions · ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
EX10/11-S2(20.0)	10/3/13	1410	Soil	unp.				X																	1

Project Info.

Project Name/ #: Former Hansen Aggregate Radium Facility
PO#: # 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp:

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other.

Report ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___

See Terms and Conditions on reverse

	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	[signature] 1615		
Printed Name / Date	Brendan J. Millward 10/3/13		
Company	Haley & Aldrich		

	1) Received by:	2) Received by:	3) Received by:
Signature / Time	[signature] 1615		
Printed Name / Date	Dustin Emmons 10/3/13		
Company	TAP		

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-52758-1

Login Number: 52758

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-52758-2
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz

Authorized for release by:
10/29/2013 9:02:52 AM

Dimple Sharma, Project Manager I
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-52758-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-52758-2

Comments
No additional comments.

Receipt
The samples were received on 10/3/2013 4:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 7.7º C.

Metals
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-2

Client Sample ID: EX3-2-SPOILS-COMP. — Lab Sample ID: 720-52758-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.26		0.25		mg/L	2.5		6010B	STLC Citrate

Client Sample ID: EX4-2-SPOILS-COMP.A — Lab Sample ID: 720-52758-25

No Detections.

Client Sample ID: EX4-2-SPOILS-COMP.B — Lab Sample ID: 720-52758-30

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-2

Client Sample ID: EX3-2-SPOILS-COMP.
Date Collected: 10/03/13 09:50
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-15
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.26		0.25		mg/L		10/28/13 10:31	10/28/13 15:47	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-2

Client Sample ID: EX4-2-SPOILS-COMP.A — **Lab Sample ID: 720-52758-25**

Date Collected: 10/03/13 10:25 — **Matrix: Solid**

Date Received: 10/03/13 16:15

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		10/28/13 10:31	10/28/13 15:51	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-2

Client Sample ID: EX4-2-SPOILS-COMP.B
Date Collected: 10/03/13 10:45
Date Received: 10/03/13 16:15

Lab Sample ID: 720-52758-30
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		10/28/13 10:31	10/28/13 15:56	2.5

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-147161/1-A
Matrix: Solid
Analysis Batch: 147201

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 147161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.010		mg/L		10/28/13 10:31	10/28/13 14:40	1

Lab Sample ID: LCS 720-147161/2-A
Matrix: Solid
Analysis Batch: 147201

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 147161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.00	0.861		mg/L		86	80 - 120

Lab Sample ID: LCSD 720-147161/3-A
Matrix: Solid
Analysis Batch: 147201

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 147161

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	1.00	0.925		mg/L		93	80 - 120	7	20

Lab Sample ID: LB4 720-147094/1-C LB4
Matrix: Solid
Analysis Batch: 147201

Client Sample ID: Method Blank
Prep Type: STLC Citrate
Prep Batch: 147161

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10		mg/L		10/28/13 10:31	10/28/13 14:53	1

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-2

Metals

Leach Batch: 147094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52758-15	EX3-2-SPOILS-COMP.	STLC Citrate	Solid	CA WET Citrate	
720-52758-25	EX4-2-SPOILS-COMP.A	STLC Citrate	Solid	CA WET Citrate	
720-52758-30	EX4-2-SPOILS-COMP.B	STLC Citrate	Solid	CA WET Citrate	
LB4 720-147094/1-C LB4	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 147161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52758-15	EX3-2-SPOILS-COMP.	STLC Citrate	Solid	3005A	147094
720-52758-25	EX4-2-SPOILS-COMP.A	STLC Citrate	Solid	3005A	147094
720-52758-30	EX4-2-SPOILS-COMP.B	STLC Citrate	Solid	3005A	147094
LB4 720-147094/1-C LB4	Method Blank	STLC Citrate	Solid	3005A	147094
LCS 720-147161/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-147161/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-147161/1-A	Method Blank	Total Recoverable	Solid	3005A	

Analysis Batch: 147201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52758-15	EX3-2-SPOILS-COMP.	STLC Citrate	Solid	6010B	147161
720-52758-25	EX4-2-SPOILS-COMP.A	STLC Citrate	Solid	6010B	147161
720-52758-30	EX4-2-SPOILS-COMP.B	STLC Citrate	Solid	6010B	147161
LB4 720-147094/1-C LB4	Method Blank	STLC Citrate	Solid	6010B	147161
LCS 720-147161/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	147161
LCSD 720-147161/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	147161
MB 720-147161/1-A	Method Blank	Total Recoverable	Solid	6010B	147161

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-2

Client Sample ID: EX3-2-SPOILS-COMP.

Lab Sample ID: 720-52758-15

Date Collected: 10/03/13 09:50

Matrix: Solid

Date Received: 10/03/13 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			147094	10/26/13 09:04	ASB	TAL PLS
STLC Citrate	Prep	3005A			147161	10/28/13 10:31	JCR	TAL PLS
STLC Citrate	Analysis	6010B		2.5	147201	10/28/13 15:47	EFH	TAL PLS

Client Sample ID: EX4-2-SPOILS-COMP.A

Lab Sample ID: 720-52758-25

Date Collected: 10/03/13 10:25

Matrix: Solid

Date Received: 10/03/13 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			147094	10/26/13 09:04	ASB	TAL PLS
STLC Citrate	Prep	3005A			147161	10/28/13 10:31	JCR	TAL PLS
STLC Citrate	Analysis	6010B		2.5	147201	10/28/13 15:51	EFH	TAL PLS

Client Sample ID: EX4-2-SPOILS-COMP.B

Lab Sample ID: 720-52758-30

Date Collected: 10/03/13 10:45

Matrix: Solid

Date Received: 10/03/13 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			147094	10/26/13 09:04	ASB	TAL PLS
STLC Citrate	Prep	3005A			147161	10/28/13 10:31	JCR	TAL PLS
STLC Citrate	Analysis	6010B		2.5	147201	10/28/13 15:56	EFH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-2

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52758-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-52758-15	EX3-2-SPOILS-COMP.	Solid	10/03/13 09:50	10/03/13 16:15
720-52758-25	EX4-2-SPOILS-COMP.A	Solid	10/03/13 10:25	10/03/13 16:15
720-52758-30	EX4-2-SPOILS-COMP.B	Solid	10/03/13 10:45	10/03/13 16:15

720-52758-2

Mullen, Joan

From: Sharma, Dimple
Sent: Thursday, October 24, 2013 12:57 PM
To: Mullen, Joan
Subject: FW: Haley & Aldrich - Former Hanson Site - Additional Analysis Request (RUSH!)

-----Original Message-----
From: Brendan J. Mulholland [mailto:brendan@albionpartners.com]
Sent: Thu 10/24/2013 11:24 AM
To: Sharma, Dimple
Cc: James Schwartz; Vincent Tilotta
Subject: Haley & Aldrich - Former Hanson Site - Additional Analysis Request (RUSH!)

Good Morning Dimple,

Haley & Aldrich is hereby requesting additional analysis for W.E.T. STLC Chromium (Cr) on a RUSH (3-Day TAT) for the following samples:

EX3-2-Spoils-Comp., submitted on 10/3/2013; EX4-2-Spoils-Comp. A, submitted on 10/3/2013; EX4-2-Spoils-Comp. B, submitted on 10/3/2013; CF5-1-Spoils-Comp., submitted on 10/4/2013; EX9-2-Spoils-Comp., submitted on 10/4/2013; EX10/11-Seg.1-Spoils-Comp., submitted on 10/4/2013; EX10/11-2-Spoils-Comp.B, submitted on 10/7/2013; EX10/11-2-Spoils-Comp.C, submitted on 10/7/2013; EX10/11-2-Spoils-Comp.E, submitted on 10/7/2013; and EX10/11-2-Spoils-Comp.F, submitted on 10/7/2013.

Please contact me if you have any questions or comments, or require additional information.

Thanks Dimple and the TAP Team!

Sincerely,

Brendan J. Mulholland, PG,QSD
Albion Partners
410 China Basin Street
San Francisco, CA 94158
415-355-6647 direct
510-381-5584 cell
www.albionpartners.com

RUSH



720-52758 Chain of Custody

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-52758-2

Login Number: 52758

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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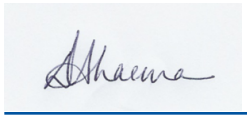
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-52801-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz



Authorized for release by:
10/14/2013 4:15:05 PM

Dimple Sharma, Project Manager I
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-52801-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-52801-1

Comments
No additional comments.

Receipt
The samples were received on 10/4/2013 5:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° C.

GC/MS VOA
Method 8260B: Internal standard response for the following sample 52801-5,15,30 exceeded the lower control limit and confirmed by reanalysis. As such, the sample results may be biased high.

No other analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: CF5-1-SPOILS-COMP. (720-52801-5), EX7-2-SPOILS-COMP. (720-52801-15), EX9-2-SPOILS-COMP. (720-52801-10), EX10/11-SEG2-SPOILS-COMP.A. (720-52801-25), EX10/11-SEG2-SPOILS-COMP.B. (720-52801-30).

No other analytical or quality issues were noted.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 145898 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 6010B: The serial dilution performed for the following sample associated with analytical batch 145898 was outside control limits: (720-52801-5 SD)

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: CF5-1-SPOILS-COMP. — Lab Sample ID: 720-52801-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	530		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1500		980		mg/Kg	20		8015B	Silica Gel Cleanup
Arsenic	4.7		3.9		mg/Kg	4		6010B	Total/NA
Barium	180		1.9		mg/Kg	4		6010B	Total/NA
Chromium	65		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	12		0.78		mg/Kg	4		6010B	Total/NA
Copper	38		5.8		mg/Kg	4		6010B	Total/NA
Lead	33		1.9		mg/Kg	4		6010B	Total/NA
Nickel	75		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	43		1.9		mg/Kg	4		6010B	Total/NA
Zinc	93		5.8		mg/Kg	4		6010B	Total/NA
Mercury	0.14		0.0095		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX9-2-SPOILS-COMP. — Lab Sample ID: 720-52801-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	150		9.9		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1200		490		mg/Kg	10		8015B	Silica Gel Cleanup
Arsenic	4.4		3.4		mg/Kg	4		6010B	Total/NA
Barium	96		1.7		mg/Kg	4		6010B	Total/NA
Chromium	52		1.7		mg/Kg	4		6010B	Total/NA
Cobalt	9.5		0.68		mg/Kg	4		6010B	Total/NA
Copper	23		5.1		mg/Kg	4		6010B	Total/NA
Lead	5.6		1.7		mg/Kg	4		6010B	Total/NA
Nickel	71		1.7		mg/Kg	4		6010B	Total/NA
Vanadium	30		1.7		mg/Kg	4		6010B	Total/NA
Zinc	45		5.1		mg/Kg	4		6010B	Total/NA
Mercury	0.026		0.0094		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX7-2-SPOILS-COMP. — Lab Sample ID: 720-52801-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	540		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	1500		990		mg/Kg	20		8015B	Silica Gel Cleanup
Barium	120		1.8		mg/Kg	4		6010B	Total/NA
Chromium	39		1.8		mg/Kg	4		6010B	Total/NA
Cobalt	8.6		0.70		mg/Kg	4		6010B	Total/NA
Copper	23		5.3		mg/Kg	4		6010B	Total/NA
Lead	18		1.8		mg/Kg	4		6010B	Total/NA
Nickel	57		1.8		mg/Kg	4		6010B	Total/NA
Vanadium	33		1.8		mg/Kg	4		6010B	Total/NA
Zinc	80		5.3		mg/Kg	4		6010B	Total/NA
Mercury	0.030		0.0097		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX10/11-SEG1-SPOILS-COMP. — Lab Sample ID: 720-52801-20

This Detection Summary does not include radiochemical test results.

Client Sample ID: EX10/11-SEG1-SPOILS-COMP. (Continued) — Lab Sample ID: 720-52801-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	5.8		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Arsenic	6.1		3.7		mg/Kg	4		6010B	Total/NA
Barium	170		1.9		mg/Kg	4		6010B	Total/NA
Chromium	66		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	14		0.74		mg/Kg	4		6010B	Total/NA
Copper	32		5.6		mg/Kg	4		6010B	Total/NA
Lead	9.8		1.9		mg/Kg	4		6010B	Total/NA
Nickel	88		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	32		1.9		mg/Kg	4		6010B	Total/NA
Zinc	54		5.6		mg/Kg	4		6010B	Total/NA
Mercury	0.44		0.0097		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX10/11-SEG2-SPOILS-COMP.A. — Lab Sample ID: 720-52801-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1900		49		mg/Kg	50		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	4500		2500		mg/Kg	50		8015B	Silica Gel Cleanup
Arsenic	3.6		3.6		mg/Kg	4		6010B	Total/NA
Barium	120		1.8		mg/Kg	4		6010B	Total/NA
Chromium	32		1.8		mg/Kg	4		6010B	Total/NA
Cobalt	9.1		0.71		mg/Kg	4		6010B	Total/NA
Copper	35		5.4		mg/Kg	4		6010B	Total/NA
Lead	38		1.8		mg/Kg	4		6010B	Total/NA
Nickel	47		1.8		mg/Kg	4		6010B	Total/NA
Vanadium	22		1.8		mg/Kg	4		6010B	Total/NA
Zinc	74		5.4		mg/Kg	4		6010B	Total/NA
Mercury	0.056		0.0095		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX10/11-SEG2-SPOILS-COMP.B. — Lab Sample ID: 720-52801-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2500		49		mg/Kg	50		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	5400		2500		mg/Kg	50		8015B	Silica Gel Cleanup
Antimony	2.0		1.9		mg/Kg	4		6010B	Total/NA
Arsenic	5.0		3.8		mg/Kg	4		6010B	Total/NA
Barium	180		1.9		mg/Kg	4		6010B	Total/NA
Chromium	49		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	11		0.75		mg/Kg	4		6010B	Total/NA
Copper	40		5.7		mg/Kg	4		6010B	Total/NA
Lead	39		1.9		mg/Kg	4		6010B	Total/NA
Nickel	68		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	29		1.9		mg/Kg	4		6010B	Total/NA
Zinc	74		5.7		mg/Kg	4		6010B	Total/NA
Mercury	0.037		0.010		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EB10042013 **Lab Sample ID: 720-52801-31**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: CF5-1-SPOILS-COMP.
Date Collected: 10/04/13 08:30
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Acetone	ND		50		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Benzene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Dichlorobromomethane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Bromobenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Chlorobromomethane	ND		20		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Bromoform	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Bromomethane	ND		9.9		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
2-Butanone (MEK)	ND		50		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
n-Butylbenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
sec-Butylbenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
tert-Butylbenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Carbon disulfide	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Carbon tetrachloride	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Chlorobenzene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Chloroethane	ND		9.9		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Chloroform	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Chloromethane	ND		9.9		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
2-Chlorotoluene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
4-Chlorotoluene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Chlorodibromomethane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,2-Dichlorobenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,3-Dichlorobenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,4-Dichlorobenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,3-Dichloropropane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,1-Dichloropropene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,2-Dibromo-3-Chloropropane	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Ethylene Dibromide	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Dibromomethane	ND		9.9		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,1-Dichloroethane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,2-Dichloroethane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,1-Dichloroethene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,2-Dichloropropane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Ethylbenzene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Hexachlorobutadiene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
2-Hexanone	ND		50		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Isopropylbenzene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
4-Isopropyltoluene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Methylene Chloride	ND		9.9		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Naphthalene	ND	*	9.9		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
N-Propylbenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Styrene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: CF5-1-SPOILS-COMP.
Date Collected: 10/04/13 08:30
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Tetrachloroethene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Toluene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,2,3-Trichlorobenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,2,4-Trichlorobenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Trichloroethene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Trichlorofluoromethane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,2,3-Trichloropropane	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,2,4-Trimethylbenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
1,3,5-Trimethylbenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Vinyl acetate	ND		50		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Vinyl chloride	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Xylenes, Total	ND		9.9		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
2,2-Dichloropropane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 00:51	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		10/10/13 21:26	10/11/13 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*80*		*45 - 131*	*10/10/13 21:26*	*10/11/13 00:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*	*10/10/13 21:26*	*10/11/13 00:51*	*1*
Toluene-d8 (Surr)	*90*		*58 - 140*	*10/10/13 21:26*	*10/11/13 00:51*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**530**		20		mg/Kg		10/09/13 11:07	10/11/13 18:32	20
Motor Oil Range Organics [C24-C36]	**1500**		980		mg/Kg		10/09/13 11:07	10/11/13 18:32	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/09/13 11:07*	*10/11/13 18:32*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*10/09/13 11:07*	*10/11/13 18:32*	*20*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		10/09/13 19:17	10/10/13 15:35	4
Arsenic	**4.7**		3.9		mg/Kg		10/09/13 19:17	10/10/13 15:35	4
Barium	**180**		1.9		mg/Kg		10/09/13 19:17	10/10/13 15:35	4
Beryllium	ND		0.39		mg/Kg		10/09/13 19:17	10/10/13 15:35	4
Cadmium	ND		0.49		mg/Kg		10/09/13 19:17	10/10/13 15:35	4
Chromium	**65**		1.9		mg/Kg		10/09/13 19:17	10/10/13 15:35	4
Cobalt	**12**		0.78		mg/Kg		10/09/13 19:17	10/10/13 15:35	4
Copper	**38**		5.8		mg/Kg		10/09/13 19:17	10/10/13 15:35	4
Lead	**33**		1.9		mg/Kg		10/09/13 19:17	10/10/13 15:35	4
Molybdenum	ND		1.9		mg/Kg		10/09/13 19:17	10/10/13 15:35	4
Nickel	**75**		1.9		mg/Kg		10/09/13 19:17	10/10/13 15:35	4
Selenium	ND		3.9		mg/Kg		10/09/13 19:17	10/10/13 15:35	4
Silver	ND		0.97		mg/Kg		10/09/13 19:17	10/10/13 15:35	4
Thallium	ND		1.9		mg/Kg		10/09/13 19:17	10/10/13 15:35	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: CF5-1-SPOILS-COMP.
Date Collected: 10/04/13 08:30
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-5
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	43		1.9		mg/Kg		10/09/13 19:17	10/10/13 15:35	4
Zinc	93		5.8		mg/Kg		10/09/13 19:17	10/10/13 15:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.0095		mg/Kg		10/10/13 18:04	10/11/13 13:42	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EX9-2-SPOILS-COMP.
Date Collected: 10/04/13 08:50
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Acetone	ND		48		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Benzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Dichlorobromomethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Bromobenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Chlorobromomethane	ND		19		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Bromoform	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Bromomethane	ND		9.6		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
2-Butanone (MEK)	ND		48		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
n-Butylbenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
sec-Butylbenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
tert-Butylbenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Carbon disulfide	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Carbon tetrachloride	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Chlorobenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Chloroethane	ND		9.6		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Chloroform	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Chloromethane	ND		9.6		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
2-Chlorotoluene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
4-Chlorotoluene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Chlorodibromomethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,2-Dichlorobenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,3-Dichlorobenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,4-Dichlorobenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,3-Dichloropropane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,1-Dichloropropene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,2-Dibromo-3-Chloropropane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Ethylene Dibromide	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Dibromomethane	ND		9.6		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,1-Dichloroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,2-Dichloroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,1-Dichloroethene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,2-Dichloropropane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Ethylbenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Hexachlorobutadiene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
2-Hexanone	ND		48		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Isopropylbenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
4-Isopropyltoluene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Methylene Chloride	ND		9.6		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Naphthalene	ND		9.6		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
N-Propylbenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Styrene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EX9-2-SPOILS-COMP.
Date Collected: 10/04/13 08:50
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Tetrachloroethene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Toluene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,2,3-Trichlorobenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,2,4-Trichlorobenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Trichloroethene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Trichlorofluoromethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,2,3-Trichloropropane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,2,4-Trimethylbenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
1,3,5-Trimethylbenzene	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Vinyl acetate	ND		48		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Vinyl chloride	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Xylenes, Total	ND		9.6		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
2,2-Dichloropropane	ND		4.8		ug/Kg		10/10/13 10:00	10/10/13 15:03	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		10/10/13 10:00	10/10/13 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*45 - 131*	*10/10/13 10:00*	*10/10/13 15:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*	*10/10/13 10:00*	*10/10/13 15:03*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*10/10/13 10:00*	*10/10/13 15:03*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**150**		9.9		mg/Kg		10/09/13 11:07	10/11/13 18:07	10
Motor Oil Range Organics [C24-C36]	**1200**		490		mg/Kg		10/09/13 11:07	10/11/13 18:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/09/13 11:07*	*10/11/13 18:07*	*10*
p-Terphenyl	*0*	*X D*	*38 - 148*	*10/09/13 11:07*	*10/11/13 18:07*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7		mg/Kg		10/09/13 19:17	10/10/13 20:31	4
Arsenic	**4.4**		3.4		mg/Kg		10/09/13 19:17	10/10/13 20:31	4
Barium	**96**		1.7		mg/Kg		10/09/13 19:17	10/10/13 20:31	4
Beryllium	ND		0.34		mg/Kg		10/09/13 19:17	10/10/13 20:31	4
Cadmium	ND		0.43		mg/Kg		10/09/13 19:17	10/10/13 20:31	4
Chromium	**52**		1.7		mg/Kg		10/09/13 19:17	10/10/13 20:31	4
Cobalt	**9.5**		0.68		mg/Kg		10/09/13 19:17	10/10/13 20:31	4
Copper	**23**		5.1		mg/Kg		10/09/13 19:17	10/10/13 20:31	4
Lead	**5.6**		1.7		mg/Kg		10/09/13 19:17	10/10/13 20:31	4
Molybdenum	ND		1.7		mg/Kg		10/09/13 19:17	10/10/13 20:31	4
Nickel	**71**		1.7		mg/Kg		10/09/13 19:17	10/10/13 20:31	4
Selenium	ND		3.4		mg/Kg		10/09/13 19:17	10/10/13 20:31	4
Silver	ND		0.85		mg/Kg		10/09/13 19:17	10/10/13 20:31	4
Thallium	ND		1.7		mg/Kg		10/09/13 19:17	10/10/13 20:31	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EX9-2-SPOILS-COMP.
Date Collected: 10/04/13 08:50
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-10
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	30		1.7		mg/Kg		10/09/13 19:17	10/10/13 20:31	4
Zinc	45		5.1		mg/Kg		10/09/13 19:17	10/10/13 20:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.0094		mg/Kg		10/10/13 18:04	10/11/13 13:45	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EX7-2-SPOILS-COMP.
Date Collected: 10/04/13 11:00
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-15
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Acetone	ND		50		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Benzene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Dichlorobromomethane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Bromobenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Chlorobromomethane	ND		20		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Bromoform	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Bromomethane	ND		10		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
2-Butanone (MEK)	ND		50		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
n-Butylbenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
sec-Butylbenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
tert-Butylbenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Carbon disulfide	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Carbon tetrachloride	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Chlorobenzene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Chloroethane	ND		10		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Chloroform	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Chloromethane	ND		10		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
2-Chlorotoluene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
4-Chlorotoluene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Chlorodibromomethane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,2-Dichlorobenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,3-Dichlorobenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,4-Dichlorobenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,3-Dichloropropane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,1-Dichloropropene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,2-Dibromo-3-Chloropropane	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Ethylene Dibromide	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Dibromomethane	ND		10		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Dichlorodifluoromethane	ND		10		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,1-Dichloroethane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,2-Dichloroethane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,1-Dichloroethene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,2-Dichloropropane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Ethylbenzene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Hexachlorobutadiene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
2-Hexanone	ND		50		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Isopropylbenzene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
4-Isopropyltoluene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Methylene Chloride	ND		10		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Naphthalene	ND	*	10		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
N-Propylbenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Styrene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EX7-2-SPOILS-COMP.
Date Collected: 10/04/13 11:00
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-15
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Tetrachloroethene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Toluene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,2,3-Trichlorobenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,2,4-Trichlorobenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Trichloroethene	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Trichlorofluoromethane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,2,3-Trichloropropane	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,2,4-Trimethylbenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
1,3,5-Trimethylbenzene	ND	*	5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Vinyl acetate	ND		50		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Vinyl chloride	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Xylenes, Total	ND		10		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
2,2-Dichloropropane	ND		5.0		ug/Kg		10/10/13 21:26	10/11/13 01:17	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		10/10/13 21:26	10/11/13 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*83*		*45 - 131*	*10/10/13 21:26*	*10/11/13 01:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*	*10/10/13 21:26*	*10/11/13 01:17*	*1*
Toluene-d8 (Surr)	*91*		*58 - 140*	*10/10/13 21:26*	*10/11/13 01:17*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**540**		20		mg/Kg		10/09/13 11:07	10/11/13 18:56	20
Motor Oil Range Organics [C24-C36]	**1500**		990		mg/Kg		10/09/13 11:07	10/11/13 18:56	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/09/13 11:07*	*10/11/13 18:56*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*10/09/13 11:07*	*10/11/13 18:56*	*20*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:35	4
Arsenic	ND		3.5		mg/Kg		10/09/13 19:17	10/10/13 20:35	4
Barium	**120**		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:35	4
Beryllium	ND		0.35		mg/Kg		10/09/13 19:17	10/10/13 20:35	4
Cadmium	ND		0.44		mg/Kg		10/09/13 19:17	10/10/13 20:35	4
Chromium	**39**		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:35	4
Cobalt	**8.6**		0.70		mg/Kg		10/09/13 19:17	10/10/13 20:35	4
Copper	**23**		5.3		mg/Kg		10/09/13 19:17	10/10/13 20:35	4
Lead	**18**		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:35	4
Molybdenum	ND		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:35	4
Nickel	**57**		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:35	4
Selenium	ND		3.5		mg/Kg		10/09/13 19:17	10/10/13 20:35	4
Silver	ND		0.88		mg/Kg		10/09/13 19:17	10/10/13 20:35	4
Thallium	ND		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:35	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EX7-2-SPOILS-COMP.
Date Collected: 10/04/13 11:00
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-15
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	33		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:35	4
Zinc	80		5.3		mg/Kg		10/09/13 19:17	10/10/13 20:35	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.0097		mg/Kg		10/10/13 18:04	10/11/13 13:47	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EX10/11-SEG1-SPOILS-COMP.
Lab Sample ID: 720-52801-20
Date Collected: 10/04/13 11:30
Matrix: Solid
Date Received: 10/04/13 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Acetone	ND		50		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Benzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Dichlorobromomethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Bromobenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Chlorobromomethane	ND		20		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Bromoform	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Bromomethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
2-Butanone (MEK)	ND		50		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
n-Butylbenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
sec-Butylbenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
tert-Butylbenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Carbon disulfide	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Carbon tetrachloride	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Chlorobenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Chloroethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Chloroform	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Chloromethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
2-Chlorotoluene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
4-Chlorotoluene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Chlorodibromomethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,3-Dichloropropane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,1-Dichloropropene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Ethylene Dibromide	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Dibromomethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,1-Dichloroethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,2-Dichloroethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,1-Dichloroethene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,2-Dichloropropane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Ethylbenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Hexachlorobutadiene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
2-Hexanone	ND		50		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Isopropylbenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
4-Isopropyltoluene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Methylene Chloride	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Naphthalene	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
N-Propylbenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Styrene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EX10/11-SEG1-SPOILS-COMP.
Date Collected: 10/04/13 11:30
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-20
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Tetrachloroethene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Toluene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Trichloroethene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Trichlorofluoromethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Vinyl acetate	ND		50		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Vinyl chloride	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Xylenes, Total	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
2,2-Dichloropropane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 15:55	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		10/10/13 10:00	10/10/13 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*45 - 131*	*10/10/13 10:00*	*10/10/13 15:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*	*10/10/13 10:00*	*10/10/13 15:55*	*1*
Toluene-d8 (Surr)	*98*		*58 - 140*	*10/10/13 10:00*	*10/10/13 15:55*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**5.8**		0.99		mg/Kg		10/09/13 11:07	10/11/13 17:43	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		10/09/13 11:07	10/11/13 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.06*		*0 - 1*	*10/09/13 11:07*	*10/11/13 17:43*	*1*
p-Terphenyl	*96*		*38 - 148*	*10/09/13 11:07*	*10/11/13 17:43*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:40	4
Arsenic	**6.1**		3.7		mg/Kg		10/09/13 19:17	10/10/13 20:40	4
Barium	**170**		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:40	4
Beryllium	ND		0.37		mg/Kg		10/09/13 19:17	10/10/13 20:40	4
Cadmium	ND		0.46		mg/Kg		10/09/13 19:17	10/10/13 20:40	4
Chromium	**66**		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:40	4
Cobalt	**14**		0.74		mg/Kg		10/09/13 19:17	10/10/13 20:40	4
Copper	**32**		5.6		mg/Kg		10/09/13 19:17	10/10/13 20:40	4
Lead	**9.8**		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:40	4
Molybdenum	ND		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:40	4
Nickel	**88**		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:40	4
Selenium	ND		3.7		mg/Kg		10/09/13 19:17	10/10/13 20:40	4
Silver	ND		0.93		mg/Kg		10/09/13 19:17	10/10/13 20:40	4
Thallium	ND		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:40	4
Vanadium	**32**		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:40	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EX10/11-SEG1-SPOILS-COMP.
Date Collected: 10/04/13 11:30
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-20
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	54		5.6		mg/Kg		10/09/13 19:17	10/10/13 20:40	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.44		0.0097		mg/Kg		10/10/13 18:04	10/11/13 13:50	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EX10/11-SEG2-SPOILS-COMP.A.
Lab Sample ID: 720-52801-25
Date Collected: 10/04/13 13:50
Matrix: Solid
Date Received: 10/04/13 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Acetone	ND		46		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Benzene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Dichlorobromomethane	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Bromobenzene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Chlorobromomethane	ND		18		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Bromoform	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Bromomethane	ND		9.2		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
2-Butanone (MEK)	ND		46		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
n-Butylbenzene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
sec-Butylbenzene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
tert-Butylbenzene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Carbon disulfide	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Carbon tetrachloride	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Chlorobenzene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Chloroethane	ND		9.2		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Chloroform	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Chloromethane	ND		9.2		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
2-Chlorotoluene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
4-Chlorotoluene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Chlorodibromomethane	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,3-Dichloropropane	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,1-Dichloropropene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,2-Dibromo-3-Chloropropane	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Ethylene Dibromide	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Dibromomethane	ND		9.2		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Dichlorodifluoromethane	ND		9.2		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,1-Dichloroethane	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,2-Dichloroethane	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,1-Dichloroethene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,2-Dichloropropane	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Ethylbenzene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Hexachlorobutadiene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
2-Hexanone	ND		46		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Isopropylbenzene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
4-Isopropyltoluene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Methylene Chloride	ND		9.2		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Naphthalene	ND		9.2		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
N-Propylbenzene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Styrene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EX10/11-SEG2-SPOILS-COMP.A.
Date Collected: 10/04/13 13:50
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-25
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Tetrachloroethene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Toluene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Trichloroethene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Trichlorofluoromethane	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Vinyl acetate	ND		46		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Vinyl chloride	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Xylenes, Total	ND		9.2		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
2,2-Dichloropropane	ND		4.6		ug/Kg		10/10/13 21:26	10/11/13 01:43	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		10/10/13 21:26	10/11/13 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*45 - 131*	*10/10/13 21:26*	*10/11/13 01:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*	*10/10/13 21:26*	*10/11/13 01:43*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*10/10/13 21:26*	*10/11/13 01:43*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1900**		49		mg/Kg		10/08/13 13:35	10/09/13 22:14	50
Motor Oil Range Organics [C24-C36]	**4500**		2500		mg/Kg		10/08/13 13:35	10/09/13 22:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/08/13 13:35*	*10/09/13 22:14*	*50*
p-Terphenyl	*0*	*X D*	*38 - 148*	*10/08/13 13:35*	*10/09/13 22:14*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:44	4
Arsenic	**3.6**		3.6		mg/Kg		10/09/13 19:17	10/10/13 20:44	4
Barium	**120**		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:44	4
Beryllium	ND		0.36		mg/Kg		10/09/13 19:17	10/10/13 20:44	4
Cadmium	ND		0.45		mg/Kg		10/09/13 19:17	10/10/13 20:44	4
Chromium	**32**		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:44	4
Cobalt	**9.1**		0.71		mg/Kg		10/09/13 19:17	10/10/13 20:44	4
Copper	**35**		5.4		mg/Kg		10/09/13 19:17	10/10/13 20:44	4
Lead	**38**		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:44	4
Molybdenum	ND		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:44	4
Nickel	**47**		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:44	4
Selenium	ND		3.6		mg/Kg		10/09/13 19:17	10/10/13 20:44	4
Silver	ND		0.89		mg/Kg		10/09/13 19:17	10/10/13 20:44	4
Thallium	ND		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:44	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EX10/11-SEG2-SPOILS-COMP.A.
Date Collected: 10/04/13 13:50
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-25
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	22		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:44	4
Zinc	74		5.4		mg/Kg		10/09/13 19:17	10/10/13 20:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.0095		mg/Kg		10/10/13 18:04	10/11/13 13:52	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EX10/11-SEG2-SPOILS-COMP.B. — **Lab Sample ID: 720-52801-30**
Date Collected: 10/04/13 14:10 — **Matrix: Solid**
Date Received: 10/04/13 17:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Acetone	ND		47		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Benzene	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Dichlorobromomethane	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Bromobenzene	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Chlorobromomethane	ND		19		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Bromoform	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Bromomethane	ND		9.4		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
2-Butanone (MEK)	ND		47		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
n-Butylbenzene	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
sec-Butylbenzene	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
tert-Butylbenzene	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Carbon disulfide	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Carbon tetrachloride	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Chlorobenzene	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Chloroethane	ND		9.4		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Chloroform	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Chloromethane	ND		9.4		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
2-Chlorotoluene	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
4-Chlorotoluene	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Chlorodibromomethane	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,2-Dichlorobenzene	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,3-Dichlorobenzene	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,4-Dichlorobenzene	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,3-Dichloropropane	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,1-Dichloropropene	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,2-Dibromo-3-Chloropropane	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Ethylene Dibromide	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Dibromomethane	ND		9.4		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Dichlorodifluoromethane	ND		9.4		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,1-Dichloroethane	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,2-Dichloroethane	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,1-Dichloroethene	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,2-Dichloropropane	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Ethylbenzene	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Hexachlorobutadiene	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
2-Hexanone	ND		47		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Isopropylbenzene	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
4-Isopropyltoluene	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Methylene Chloride	ND		9.4		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
4-Methyl-2-pentanone (MIBK)	ND		47		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Naphthalene	ND	*	9.4		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
N-Propylbenzene	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Styrene	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EX10/11-SEG2-SPOILS-COMP.B.
Date Collected: 10/04/13 14:10
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-30
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Tetrachloroethene	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Toluene	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,2,3-Trichlorobenzene	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,2,4-Trichlorobenzene	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Trichloroethene	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Trichlorofluoromethane	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,2,3-Trichloropropane	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,2,4-Trimethylbenzene	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
1,3,5-Trimethylbenzene	ND	*	4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Vinyl acetate	ND		47		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Vinyl chloride	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Xylenes, Total	ND		9.4		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
2,2-Dichloropropane	ND		4.7		ug/Kg		10/10/13 21:26	10/11/13 02:09	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		10/10/13 21:26	10/11/13 02:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*80*		*45 - 131*	*10/10/13 21:26*	*10/11/13 02:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*	*10/10/13 21:26*	*10/11/13 02:09*	*1*
Toluene-d8 (Surr)	*90*		*58 - 140*	*10/10/13 21:26*	*10/11/13 02:09*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**2500**		49		mg/Kg		10/08/13 13:35	10/10/13 10:42	50
Motor Oil Range Organics [C24-C36]	**5400**		2500		mg/Kg		10/08/13 13:35	10/10/13 10:42	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/08/13 13:35*	*10/10/13 10:42*	*50*
p-Terphenyl	*0*	*D X*	*38 - 148*	*10/08/13 13:35*	*10/10/13 10:42*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.0**		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:48	4
Arsenic	**5.0**		3.8		mg/Kg		10/09/13 19:17	10/10/13 20:48	4
Barium	**180**		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:48	4
Beryllium	ND		0.38		mg/Kg		10/09/13 19:17	10/10/13 20:48	4
Cadmium	ND		0.47		mg/Kg		10/09/13 19:17	10/10/13 20:48	4
Chromium	**49**		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:48	4
Cobalt	**11**		0.75		mg/Kg		10/09/13 19:17	10/10/13 20:48	4
Copper	**40**		5.7		mg/Kg		10/09/13 19:17	10/10/13 20:48	4
Lead	**39**		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:48	4
Molybdenum	ND		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:48	4
Nickel	**68**		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:48	4
Selenium	ND		3.8		mg/Kg		10/09/13 19:17	10/10/13 20:48	4
Silver	ND		0.94		mg/Kg		10/09/13 19:17	10/10/13 20:48	4
Thallium	ND		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:48	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EX10/11-SEG2-SPOILS-COMP.B.
Date Collected: 10/04/13 14:10
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-30
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	29		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:48	4
Zinc	74		5.7		mg/Kg		10/09/13 19:17	10/10/13 20:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.010		mg/Kg		10/10/13 18:04	10/11/13 13:59	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EB10042013
Date Collected: 10/04/13 12:15
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-31
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			10/10/13 00:40	1
Acetone	ND		50		ug/L			10/10/13 00:40	1
Benzene	ND		0.50		ug/L			10/10/13 00:40	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 00:40	1
Bromobenzene	ND		1.0		ug/L			10/10/13 00:40	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 00:40	1
Bromoform	ND		1.0		ug/L			10/10/13 00:40	1
Bromomethane	ND		1.0		ug/L			10/10/13 00:40	1
2-Butanone (MEK)	ND		50		ug/L			10/10/13 00:40	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 00:40	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 00:40	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 00:40	1
Carbon disulfide	ND		5.0		ug/L			10/10/13 00:40	1
Carbon tetrachloride	ND		0.50		ug/L			10/10/13 00:40	1
Chlorobenzene	ND		0.50		ug/L			10/10/13 00:40	1
Chloroethane	ND		1.0		ug/L			10/10/13 00:40	1
Chloroform	ND		1.0		ug/L			10/10/13 00:40	1
Chloromethane	ND		1.0		ug/L			10/10/13 00:40	1
2-Chlorotoluene	ND		0.50		ug/L			10/10/13 00:40	1
4-Chlorotoluene	ND		0.50		ug/L			10/10/13 00:40	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 00:40	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/10/13 00:40	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/10/13 00:40	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/10/13 00:40	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 00:40	1
1,1-Dichloropropene	ND		0.50		ug/L			10/10/13 00:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			10/10/13 00:40	1
Ethylene Dibromide	ND		0.50		ug/L			10/10/13 00:40	1
Dibromomethane	ND		0.50		ug/L			10/10/13 00:40	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/10/13 00:40	1
1,1-Dichloroethane	ND		0.50		ug/L			10/10/13 00:40	1
1,2-Dichloroethane	ND		0.50		ug/L			10/10/13 00:40	1
1,1-Dichloroethene	ND		0.50		ug/L			10/10/13 00:40	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/10/13 00:40	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/10/13 00:40	1
1,2-Dichloropropane	ND		0.50		ug/L			10/10/13 00:40	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/10/13 00:40	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/10/13 00:40	1
Ethylbenzene	ND		0.50		ug/L			10/10/13 00:40	1
Hexachlorobutadiene	ND		1.0		ug/L			10/10/13 00:40	1
2-Hexanone	ND		50		ug/L			10/10/13 00:40	1
Isopropylbenzene	ND		0.50		ug/L			10/10/13 00:40	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 00:40	1
Methylene Chloride	ND		5.0		ug/L			10/10/13 00:40	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/10/13 00:40	1
Naphthalene	ND		1.0		ug/L			10/10/13 00:40	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 00:40	1
Styrene	ND		0.50		ug/L			10/10/13 00:40	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 00:40	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EB10042013
Date Collected: 10/04/13 12:15
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-31
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 00:40	1
Tetrachloroethene	ND		0.50		ug/L			10/10/13 00:40	1
Toluene	ND		0.50		ug/L			10/10/13 00:40	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 00:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 00:40	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/10/13 00:40	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/10/13 00:40	1
Trichloroethene	ND		0.50		ug/L			10/10/13 00:40	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 00:40	1
1,2,3-Trichloropropane	ND		0.50		ug/L			10/10/13 00:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			10/10/13 00:40	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			10/10/13 00:40	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			10/10/13 00:40	1
Vinyl acetate	ND		10		ug/L			10/10/13 00:40	1
Vinyl chloride	ND		0.50		ug/L			10/10/13 00:40	1
Xylenes, Total	ND		1.0		ug/L			10/10/13 00:40	1
2,2-Dichloropropane	ND		0.50		ug/L			10/10/13 00:40	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/10/13 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*67 - 130*		*10/10/13 00:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*		*10/10/13 00:40*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/10/13 00:40*	*1*

Method: 8270C SIM - PAHs by GCMS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10		ug/L		10/10/13 14:37	10/11/13 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*51*		*29 - 120*	*10/10/13 14:37*	*10/11/13 14:18*	*1*
Terphenyl-d14	*69*		*45 - 120*	*10/10/13 14:37*	*10/11/13 14:18*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		52		ug/L		10/10/13 08:43	10/11/13 01:33	1
Motor Oil Range Organics [C24-C36]	ND		100		ug/L		10/10/13 08:43	10/11/13 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 5*	*10/10/13 08:43*	*10/11/13 01:33*	*1*
p-Terphenyl	*78*		*31 - 150*	*10/10/13 08:43*	*10/11/13 01:33*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050		mg/L		10/07/13 18:29	10/08/13 18:12	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-145871/4
Matrix: Water
Analysis Batch: 145871

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			10/09/13 19:52	1
Acetone	ND		50		ug/L			10/09/13 19:52	1
Benzene	ND		0.50		ug/L			10/09/13 19:52	1
Dichlorobromomethane	ND		0.50		ug/L			10/09/13 19:52	1
Bromobenzene	ND		1.0		ug/L			10/09/13 19:52	1
Chlorobromomethane	ND		1.0		ug/L			10/09/13 19:52	1
Bromoform	ND		1.0		ug/L			10/09/13 19:52	1
Bromomethane	ND		1.0		ug/L			10/09/13 19:52	1
2-Butanone (MEK)	ND		50		ug/L			10/09/13 19:52	1
n-Butylbenzene	ND		1.0		ug/L			10/09/13 19:52	1
sec-Butylbenzene	ND		1.0		ug/L			10/09/13 19:52	1
tert-Butylbenzene	ND		1.0		ug/L			10/09/13 19:52	1
Carbon disulfide	ND		5.0		ug/L			10/09/13 19:52	1
Carbon tetrachloride	ND		0.50		ug/L			10/09/13 19:52	1
Chlorobenzene	ND		0.50		ug/L			10/09/13 19:52	1
Chloroethane	ND		1.0		ug/L			10/09/13 19:52	1
Chloroform	ND		1.0		ug/L			10/09/13 19:52	1
Chloromethane	ND		1.0		ug/L			10/09/13 19:52	1
2-Chlorotoluene	ND		0.50		ug/L			10/09/13 19:52	1
4-Chlorotoluene	ND		0.50		ug/L			10/09/13 19:52	1
Chlorodibromomethane	ND		0.50		ug/L			10/09/13 19:52	1
1,2-Dichlorobenzene	ND		0.50		ug/L			10/09/13 19:52	1
1,3-Dichlorobenzene	ND		0.50		ug/L			10/09/13 19:52	1
1,4-Dichlorobenzene	ND		0.50		ug/L			10/09/13 19:52	1
1,3-Dichloropropane	ND		1.0		ug/L			10/09/13 19:52	1
1,1-Dichloropropene	ND		0.50		ug/L			10/09/13 19:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			10/09/13 19:52	1
Ethylene Dibromide	ND		0.50		ug/L			10/09/13 19:52	1
Dibromomethane	ND		0.50		ug/L			10/09/13 19:52	1
Dichlorodifluoromethane	ND		0.50		ug/L			10/09/13 19:52	1
1,1-Dichloroethane	ND		0.50		ug/L			10/09/13 19:52	1
1,2-Dichloroethane	ND		0.50		ug/L			10/09/13 19:52	1
1,1-Dichloroethene	ND		0.50		ug/L			10/09/13 19:52	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			10/09/13 19:52	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			10/09/13 19:52	1
1,2-Dichloropropane	ND		0.50		ug/L			10/09/13 19:52	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			10/09/13 19:52	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			10/09/13 19:52	1
Ethylbenzene	ND		0.50		ug/L			10/09/13 19:52	1
Hexachlorobutadiene	ND		1.0		ug/L			10/09/13 19:52	1
2-Hexanone	ND		50		ug/L			10/09/13 19:52	1
Isopropylbenzene	ND		0.50		ug/L			10/09/13 19:52	1
4-Isopropyltoluene	ND		1.0		ug/L			10/09/13 19:52	1
Methylene Chloride	ND		5.0		ug/L			10/09/13 19:52	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/09/13 19:52	1
Naphthalene	ND		1.0		ug/L			10/09/13 19:52	1
N-Propylbenzene	ND		1.0		ug/L			10/09/13 19:52	1
Styrene	ND		0.50		ug/L			10/09/13 19:52	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-145871/4
Matrix: Water
Analysis Batch: 145871

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			10/09/13 19:52	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/09/13 19:52	1
Tetrachloroethene	ND		0.50		ug/L			10/09/13 19:52	1
Toluene	ND		0.50		ug/L			10/09/13 19:52	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/09/13 19:52	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/09/13 19:52	1
1,1,1-Trichloroethane	ND		0.50		ug/L			10/09/13 19:52	1
1,1,2-Trichloroethane	ND		0.50		ug/L			10/09/13 19:52	1
Trichloroethene	ND		0.50		ug/L			10/09/13 19:52	1
Trichlorofluoromethane	ND		1.0		ug/L			10/09/13 19:52	1
1,2,3-Trichloropropane	ND		0.50		ug/L			10/09/13 19:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			10/09/13 19:52	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			10/09/13 19:52	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			10/09/13 19:52	1
Vinyl acetate	ND		10		ug/L			10/09/13 19:52	1
Vinyl chloride	ND		0.50		ug/L			10/09/13 19:52	1
Xylenes, Total	ND		1.0		ug/L			10/09/13 19:52	1
2,2-Dichloropropane	ND		0.50		ug/L			10/09/13 19:52	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			10/09/13 19:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*67 - 130*		*10/09/13 19:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 130*		*10/09/13 19:52*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/09/13 19:52*	*1*

Lab Sample ID: LCS 720-145871/5
Matrix: Water
Analysis Batch: 145871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	25.5		ug/L		102	62 - 130
Acetone	125	121		ug/L		97	26 - 180
Benzene	25.0	23.9		ug/L		96	79 - 130
Dichlorobromomethane	25.0	24.0		ug/L		96	70 - 130
Bromobenzene	25.0	24.2		ug/L		97	70 - 130
Chlorobromomethane	25.0	23.8		ug/L		95	70 - 130
Bromoform	25.0	22.3		ug/L		89	68 - 136
Bromomethane	25.0	20.4		ug/L		81	43 - 151
2-Butanone (MEK)	125	124		ug/L		100	54 - 130
n-Butylbenzene	25.0	26.1		ug/L		104	70 - 142
sec-Butylbenzene	25.0	25.1		ug/L		101	70 - 134
tert-Butylbenzene	25.0	25.7		ug/L		103	70 - 135
Carbon disulfide	25.0	24.3		ug/L		97	58 - 130
Carbon tetrachloride	25.0	24.0		ug/L		96	70 - 146
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130
Chloroethane	25.0	21.3		ug/L		85	62 - 138
Chloroform	25.0	24.3		ug/L		97	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-145871/5
Matrix: Water
Analysis Batch: 145871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	19.1		ug/L		76	52 - 175
2-Chlorotoluene	25.0	25.4		ug/L		102	70 - 130
4-Chlorotoluene	25.0	25.0		ug/L		100	70 - 130
Chlorodibromomethane	25.0	25.2		ug/L		101	70 - 145
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130
1,3-Dichlorobenzene	25.0	25.9		ug/L		103	70 - 130
1,4-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,3-Dichloropropane	25.0	25.4		ug/L		101	70 - 130
1,1-Dichloropropene	25.0	25.9		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.0		ug/L		92	70 - 136
Ethylene Dibromide	25.0	26.3		ug/L		105	70 - 130
Dibromomethane	25.0	24.4		ug/L		98	70 - 130
Dichlorodifluoromethane	25.0	14.6		ug/L		59	34 - 132
1,1-Dichloroethane	25.0	23.7		ug/L		95	70 - 130
1,2-Dichloroethane	25.0	24.5		ug/L		98	61 - 132
1,1-Dichloroethene	25.0	23.1		ug/L		92	64 - 128
cis-1,2-Dichloroethene	25.0	24.1		ug/L		96	70 - 130
trans-1,2-Dichloroethene	25.0	23.6		ug/L		94	68 - 130
1,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130
cis-1,3-Dichloropropene	25.0	25.5		ug/L		102	70 - 130
trans-1,3-Dichloropropene	25.0	24.8		ug/L		99	70 - 140
Ethylbenzene	25.0	23.9		ug/L		96	80 - 120
Hexachlorobutadiene	25.0	24.4		ug/L		98	70 - 130
2-Hexanone	125	126		ug/L		101	60 - 164
Isopropylbenzene	25.0	25.5		ug/L		102	70 - 130
4-Isopropyltoluene	25.0	25.1		ug/L		100	70 - 130
Methylene Chloride	25.0	23.9		ug/L		96	70 - 147
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		103	58 - 130
Naphthalene	25.0	25.4		ug/L		102	70 - 130
N-Propylbenzene	25.0	25.6		ug/L		102	70 - 130
Styrene	25.0	24.8		ug/L		99	70 - 130
1,1,1,2-Tetrachloroethane	25.0	25.9		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	25.0	26.4		ug/L		106	70 - 130
Tetrachloroethene	25.0	26.1		ug/L		104	70 - 130
Toluene	25.0	24.0		ug/L		96	78 - 120
1,2,3-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,2,4-Trichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,1,1-Trichloroethane	25.0	24.6		ug/L		99	70 - 130
1,1,2-Trichloroethane	25.0	26.0		ug/L		104	70 - 130
Trichloroethene	25.0	23.8		ug/L		95	70 - 130
Trichlorofluoromethane	25.0	23.2		ug/L		93	66 - 132
1,2,3-Trichloropropane	25.0	25.9		ug/L		104	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.4		ug/L		94	42 - 162
1,2,4-Trimethylbenzene	25.0	26.7		ug/L		107	70 - 132
1,3,5-Trimethylbenzene	25.0	26.2		ug/L		105	70 - 130
Vinyl acetate	25.0	30.1		ug/L		120	43 - 163
Vinyl chloride	25.0	19.0		ug/L		76	54 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-145871/5
Matrix: Water
Analysis Batch: 145871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	50.0	50.3		ug/L		101	70 - 142
o-Xylene	25.0	25.3		ug/L		101	70 - 130
2,2-Dichloropropane	25.0	25.9		ug/L		104	70 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCS 720-145871/7
Matrix: Water
Analysis Batch: 145871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	478		ug/L		96	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 720-145871/6
Matrix: Water
Analysis Batch: 145871

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	24.5		ug/L		98	62 - 130	4	20
Acetone	125	104		ug/L		83	26 - 180	15	30
Benzene	25.0	23.7		ug/L		95	79 - 130	1	20
Dichlorobromomethane	25.0	23.4		ug/L		94	70 - 130	2	20
Bromobenzene	25.0	24.2		ug/L		97	70 - 130	0	20
Chlorobromomethane	25.0	23.3		ug/L		93	70 - 130	2	20
Bromoform	25.0	20.9		ug/L		84	68 - 136	7	20
Bromomethane	25.0	19.3		ug/L		77	43 - 151	5	20
2-Butanone (MEK)	125	106		ug/L		85	54 - 130	16	20
n-Butylbenzene	25.0	25.9		ug/L		104	70 - 142	1	20
sec-Butylbenzene	25.0	25.1		ug/L		100	70 - 134	0	20
tert-Butylbenzene	25.0	25.6		ug/L		103	70 - 135	0	20
Carbon disulfide	25.0	23.4		ug/L		94	58 - 130	4	20
Carbon tetrachloride	25.0	23.6		ug/L		94	70 - 146	2	20
Chlorobenzene	25.0	24.4		ug/L		97	70 - 130	1	20
Chloroethane	25.0	20.1		ug/L		80	62 - 138	6	20
Chloroform	25.0	23.9		ug/L		96	70 - 130	1	20
Chloromethane	25.0	17.8		ug/L		71	52 - 175	7	20
2-Chlorotoluene	25.0	25.6		ug/L		102	70 - 130	1	20
4-Chlorotoluene	25.0	25.0		ug/L		100	70 - 130	0	20
Chlorodibromomethane	25.0	24.7		ug/L		99	70 - 145	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-145871/6
Matrix: Water
Analysis Batch: 145871

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	25.0	24.9		ug/L		99	70 - 130	1	20
1,3-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130	1	20
1,4-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130	1	20
1,3-Dichloropropane	25.0	24.3		ug/L		97	70 - 130	4	20
1,1-Dichloropropene	25.0	25.4		ug/L		102	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	20.3		ug/L		81	70 - 136	13	20
Ethylene Dibromide	25.0	24.9		ug/L		99	70 - 130	5	20
Dibromomethane	25.0	23.5		ug/L		94	70 - 130	4	20
Dichlorodifluoromethane	25.0	13.8		ug/L		55	34 - 132	6	20
1,1-Dichloroethane	25.0	23.5		ug/L		94	70 - 130	1	20
1,2-Dichloroethane	25.0	23.8		ug/L		95	61 - 132	3	20
1,1-Dichloroethene	25.0	22.3		ug/L		89	64 - 128	3	20
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	68 - 130	1	20
1,2-Dichloropropane	25.0	24.9		ug/L		100	70 - 130	0	20
cis-1,3-Dichloropropene	25.0	25.2		ug/L		101	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	24.2		ug/L		97	70 - 140	2	20
Ethylbenzene	25.0	23.6		ug/L		94	80 - 120	1	20
Hexachlorobutadiene	25.0	24.6		ug/L		99	70 - 130	1	20
2-Hexanone	125	107		ug/L		85	60 - 164	17	20
Isopropylbenzene	25.0	25.3		ug/L		101	70 - 130	1	20
4-Isopropyltoluene	25.0	24.9		ug/L		100	70 - 130	1	20
Methylene Chloride	25.0	23.6		ug/L		94	70 - 147	1	20
4-Methyl-2-pentanone (MIBK)	125	112		ug/L		89	58 - 130	15	20
Naphthalene	25.0	23.7		ug/L		95	70 - 130	7	20
N-Propylbenzene	25.0	25.4		ug/L		102	70 - 130	1	20
Styrene	25.0	24.7		ug/L		99	70 - 130	0	20
1,1,1,2-Tetrachloroethane	25.0	25.7		ug/L		103	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 130	9	20
Tetrachloroethene	25.0	25.7		ug/L		103	70 - 130	2	20
Toluene	25.0	23.8		ug/L		95	78 - 120	1	20
1,2,3-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	70 - 130	1	20
1,1,1-Trichloroethane	25.0	24.3		ug/L		97	70 - 130	1	20
1,1,2-Trichloroethane	25.0	25.1		ug/L		101	70 - 130	4	20
Trichloroethene	25.0	23.4		ug/L		94	70 - 130	2	20
Trichlorofluoromethane	25.0	22.5		ug/L		90	66 - 132	3	20
1,2,3-Trichloropropane	25.0	23.7		ug/L		95	70 - 130	9	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.9		ug/L		91	42 - 162	2	20
1,2,4-Trimethylbenzene	25.0	26.5		ug/L		106	70 - 132	1	20
1,3,5-Trimethylbenzene	25.0	26.0		ug/L		104	70 - 130	1	20
Vinyl acetate	25.0	28.0		ug/L		112	43 - 163	7	20
Vinyl chloride	25.0	18.1		ug/L		72	54 - 135	5	20
m-Xylene & p-Xylene	50.0	49.5		ug/L		99	70 - 142	2	20
o-Xylene	25.0	25.0		ug/L		100	70 - 130	1	20
2,2-Dichloropropane	25.0	25.8		ug/L		103	70 - 140	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-145871/6
Matrix: Water
Analysis Batch: 145871

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 720-145871/8
Matrix: Water
Analysis Batch: 145871

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	481		ug/L		96	62 - 120	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*100*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 720-145910/4
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			10/10/13 08:41	1
Acetone	ND		50		ug/Kg			10/10/13 08:41	1
Benzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Dichlorobromomethane	ND		5.0		ug/Kg			10/10/13 08:41	1
Bromobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Chlorobromomethane	ND		20		ug/Kg			10/10/13 08:41	1
Bromoform	ND		5.0		ug/Kg			10/10/13 08:41	1
Bromomethane	ND		10		ug/Kg			10/10/13 08:41	1
2-Butanone (MEK)	ND		50		ug/Kg			10/10/13 08:41	1
n-Butylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
sec-Butylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
tert-Butylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Carbon disulfide	ND		5.0		ug/Kg			10/10/13 08:41	1
Carbon tetrachloride	ND		5.0		ug/Kg			10/10/13 08:41	1
Chlorobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Chloroethane	ND		10		ug/Kg			10/10/13 08:41	1
Chloroform	ND		5.0		ug/Kg			10/10/13 08:41	1
Chloromethane	ND		10		ug/Kg			10/10/13 08:41	1
2-Chlorotoluene	ND		5.0		ug/Kg			10/10/13 08:41	1
4-Chlorotoluene	ND		5.0		ug/Kg			10/10/13 08:41	1
Chlorodibromomethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,3-Dichloropropane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1-Dichloropropene	ND		5.0		ug/Kg			10/10/13 08:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-145910/4
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			10/10/13 08:41	1
Ethylene Dibromide	ND		5.0		ug/Kg			10/10/13 08:41	1
Dibromomethane	ND		10		ug/Kg			10/10/13 08:41	1
Dichlorodifluoromethane	ND		10		ug/Kg			10/10/13 08:41	1
1,1-Dichloroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2-Dichloroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1-Dichloroethene	ND		5.0		ug/Kg			10/10/13 08:41	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			10/10/13 08:41	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2-Dichloropropane	ND		5.0		ug/Kg			10/10/13 08:41	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			10/10/13 08:41	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			10/10/13 08:41	1
Ethylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Hexachlorobutadiene	ND		5.0		ug/Kg			10/10/13 08:41	1
2-Hexanone	ND		50		ug/Kg			10/10/13 08:41	1
Isopropylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
4-Isopropyltoluene	ND		5.0		ug/Kg			10/10/13 08:41	1
Methylene Chloride	ND		10		ug/Kg			10/10/13 08:41	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			10/10/13 08:41	1
Naphthalene	ND		10		ug/Kg			10/10/13 08:41	1
N-Propylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Styrene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
Tetrachloroethene	ND		5.0		ug/Kg			10/10/13 08:41	1
Toluene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
Trichloroethene	ND		5.0		ug/Kg			10/10/13 08:41	1
Trichlorofluoromethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Vinyl acetate	ND		50		ug/Kg			10/10/13 08:41	1
Vinyl chloride	ND		5.0		ug/Kg			10/10/13 08:41	1
Xylenes, Total	ND		10		ug/Kg			10/10/13 08:41	1
2,2-Dichloropropane	ND		5.0		ug/Kg			10/10/13 08:41	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			10/10/13 08:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*45 - 131*		*10/10/13 08:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*		*10/10/13 08:41*	*1*
Toluene-d8 (Surr)	*101*		*58 - 140*		*10/10/13 08:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-145910/10
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	49.0		ug/Kg		98	70 - 144
Acetone	250	212		ug/Kg		85	30 - 162
Benzene	50.0	47.9		ug/Kg		96	70 - 130
Dichlorobromomethane	50.0	50.4		ug/Kg		101	70 - 131
Bromobenzene	50.0	51.7		ug/Kg		103	70 - 130
Chlorobromomethane	50.0	54.6		ug/Kg		109	70 - 130
Bromoform	50.0	60.6		ug/Kg		121	59 - 158
Bromomethane	50.0	46.9		ug/Kg		94	59 - 132
2-Butanone (MEK)	250	211		ug/Kg		84	53 - 124
n-Butylbenzene	50.0	48.5		ug/Kg		97	70 - 142
sec-Butylbenzene	50.0	48.1		ug/Kg		96	70 - 136
tert-Butylbenzene	50.0	49.6		ug/Kg		99	70 - 130
Carbon disulfide	50.0	48.0		ug/Kg		96	60 - 140
Carbon tetrachloride	50.0	53.3		ug/Kg		107	70 - 138
Chlorobenzene	50.0	52.5		ug/Kg		105	70 - 130
Chloroethane	50.0	41.5		ug/Kg		83	65 - 130
Chloroform	50.0	50.1		ug/Kg		100	77 - 127
Chloromethane	50.0	35.1		ug/Kg		70	55 - 140
2-Chlorotoluene	50.0	47.2		ug/Kg		94	70 - 138
4-Chlorotoluene	50.0	46.5		ug/Kg		93	70 - 136
Chlorodibromomethane	50.0	56.2		ug/Kg		112	70 - 146
1,2-Dichlorobenzene	50.0	54.0		ug/Kg		108	70 - 130
1,3-Dichlorobenzene	50.0	54.1		ug/Kg		108	70 - 131
1,4-Dichlorobenzene	50.0	54.7		ug/Kg		109	70 - 130
1,3-Dichloropropane	50.0	51.2		ug/Kg		102	70 - 140
1,1-Dichloropropene	50.0	52.2		ug/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	57.1		ug/Kg		114	60 - 145
Ethylene Dibromide	50.0	56.1		ug/Kg		112	70 - 140
Dibromomethane	50.0	51.6		ug/Kg		103	70 - 139
Dichlorodifluoromethane	50.0	44.8		ug/Kg		90	37 - 158
1,1-Dichloroethane	50.0	46.7		ug/Kg		93	70 - 130
1,2-Dichloroethane	50.0	47.5		ug/Kg		95	70 - 130
1,1-Dichloroethene	50.0	51.7		ug/Kg		103	76 - 122
cis-1,2-Dichloroethene	50.0	46.4		ug/Kg		93	70 - 138
trans-1,2-Dichloroethene	50.0	52.7		ug/Kg		105	67 - 130
1,2-Dichloropropane	50.0	48.9		ug/Kg		98	73 - 127
cis-1,3-Dichloropropene	50.0	52.2		ug/Kg		104	68 - 147
trans-1,3-Dichloropropene	50.0	51.6		ug/Kg		103	70 - 136
Ethylbenzene	50.0	48.7		ug/Kg		97	80 - 137
Hexachlorobutadiene	50.0	58.7		ug/Kg		117	70 - 132
2-Hexanone	250	178		ug/Kg		71	44 - 133
Isopropylbenzene	50.0	51.7		ug/Kg		103	88 - 128
4-Isopropyltoluene	50.0	49.9		ug/Kg		100	70 - 133
Methylene Chloride	50.0	50.0		ug/Kg		100	70 - 134
4-Methyl-2-pentanone (MIBK)	250	184		ug/Kg		74	60 - 160
Naphthalene	50.0	53.6		ug/Kg		107	60 - 147
N-Propylbenzene	50.0	47.7		ug/Kg		95	70 - 130
Styrene	50.0	50.0		ug/Kg		100	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-145910/10
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	54.3		ug/Kg		109	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.0		ug/Kg		98	70 - 146
Tetrachloroethene	50.0	58.5		ug/Kg		117	70 - 132
Toluene	50.0	48.7		ug/Kg		97	80 - 128
1,2,3-Trichlorobenzene	50.0	58.3		ug/Kg		117	60 - 140
1,2,4-Trichlorobenzene	50.0	58.6		ug/Kg		117	60 - 140
1,1,1-Trichloroethane	50.0	50.8		ug/Kg		102	70 - 130
1,1,2-Trichloroethane	50.0	54.0		ug/Kg		108	70 - 130
Trichloroethene	50.0	55.8		ug/Kg		112	70 - 133
Trichlorofluoromethane	50.0	49.6		ug/Kg		99	60 - 140
1,2,3-Trichloropropane	50.0	50.6		ug/Kg		101	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.5		ug/Kg		117	60 - 140
1,2,4-Trimethylbenzene	50.0	49.7		ug/Kg		99	70 - 130
1,3,5-Trimethylbenzene	50.0	48.7		ug/Kg		97	70 - 131
Vinyl acetate	50.0	ND		ug/Kg		99	38 - 176
Vinyl chloride	50.0	40.5		ug/Kg		81	58 - 125
m-Xylene & p-Xylene	100	97.6		ug/Kg		98	70 - 146
o-Xylene	50.0	49.2		ug/Kg		98	70 - 140
2,2-Dichloropropane	50.0	51.0		ug/Kg		102	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCS 720-145910/7
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1090		ug/Kg		109	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCSD 720-145910/11
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	47.1		ug/Kg		94	70 - 144	4	20
Acetone	250	185		ug/Kg		74	30 - 162	13	30
Benzene	50.0	48.3		ug/Kg		97	70 - 130	1	20
Dichlorobromomethane	50.0	48.9		ug/Kg		98	70 - 131	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-145910/11
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	51.7		ug/Kg		103	70 - 130	0	20
Chlorobromomethane	50.0	53.7		ug/Kg		107	70 - 130	2	20
Bromoform	50.0	56.5		ug/Kg		113	59 - 158	7	20
Bromomethane	50.0	48.7		ug/Kg		97	59 - 132	4	20
2-Butanone (MEK)	250	205		ug/Kg		82	53 - 124	3	20
n-Butylbenzene	50.0	48.6		ug/Kg		97	70 - 142	0	20
sec-Butylbenzene	50.0	49.1		ug/Kg		98	70 - 136	2	20
tert-Butylbenzene	50.0	50.5		ug/Kg		101	70 - 130	2	20
Carbon disulfide	50.0	49.1		ug/Kg		98	60 - 140	2	20
Carbon tetrachloride	50.0	54.4		ug/Kg		109	70 - 138	2	20
Chlorobenzene	50.0	53.0		ug/Kg		106	70 - 130	1	20
Chloroethane	50.0	43.0		ug/Kg		86	65 - 130	4	20
Chloroform	50.0	50.3		ug/Kg		101	77 - 127	0	20
Chloromethane	50.0	35.4		ug/Kg		71	55 - 140	1	20
2-Chlorotoluene	50.0	47.7		ug/Kg		95	70 - 138	1	20
4-Chlorotoluene	50.0	46.5		ug/Kg		93	70 - 136	0	20
Chlorodibromomethane	50.0	54.2		ug/Kg		108	70 - 146	4	20
1,2-Dichlorobenzene	50.0	52.1		ug/Kg		104	70 - 130	3	20
1,3-Dichlorobenzene	50.0	53.7		ug/Kg		107	70 - 131	1	20
1,4-Dichlorobenzene	50.0	53.1		ug/Kg		106	70 - 130	3	20
1,3-Dichloropropane	50.0	49.8		ug/Kg		100	70 - 140	3	20
1,1-Dichloropropene	50.0	53.2		ug/Kg		106	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	48.9		ug/Kg		98	60 - 145	15	20
Ethylene Dibromide	50.0	52.9		ug/Kg		106	70 - 140	6	20
Dibromomethane	50.0	49.0		ug/Kg		98	70 - 139	5	20
Dichlorodifluoromethane	50.0	45.9		ug/Kg		92	37 - 158	2	20
1,1-Dichloroethane	50.0	47.5		ug/Kg		95	70 - 130	2	20
1,2-Dichloroethane	50.0	46.1		ug/Kg		92	70 - 130	3	20
1,1-Dichloroethene	50.0	53.7		ug/Kg		107	76 - 122	4	20
cis-1,2-Dichloroethene	50.0	46.7		ug/Kg		93	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	53.3		ug/Kg		107	67 - 130	1	20
1,2-Dichloropropane	50.0	48.3		ug/Kg		97	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	51.8		ug/Kg		104	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	49.5		ug/Kg		99	70 - 136	4	20
Ethylbenzene	50.0	49.1		ug/Kg		98	80 - 137	1	20
Hexachlorobutadiene	50.0	57.5		ug/Kg		115	70 - 132	2	20
2-Hexanone	250	159		ug/Kg		64	44 - 133	11	20
Isopropylbenzene	50.0	53.0		ug/Kg		106	88 - 128	3	20
4-Isopropyltoluene	50.0	50.8		ug/Kg		102	70 - 133	2	20
Methylene Chloride	50.0	50.3		ug/Kg		101	70 - 134	1	20
4-Methyl-2-pentanone (MIBK)	250	166		ug/Kg		67	60 - 160	10	20
Naphthalene	50.0	48.5		ug/Kg		97	60 - 147	10	20
N-Propylbenzene	50.0	48.5		ug/Kg		97	70 - 130	2	20
Styrene	50.0	50.2		ug/Kg		100	70 - 130	0	20
1,1,1,2-Tetrachloroethane	50.0	54.1		ug/Kg		108	70 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	44.5		ug/Kg		89	70 - 146	10	20
Tetrachloroethene	50.0	60.1		ug/Kg		120	70 - 132	3	20
Toluene	50.0	49.4		ug/Kg		99	80 - 128	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-145910/11
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene			50.0	54.4		ug/Kg		109	60 - 140	7	20
1,2,4-Trichlorobenzene			50.0	56.0		ug/Kg		112	60 - 140	4	20
1,1,1-Trichloroethane			50.0	52.2		ug/Kg		104	70 - 130	3	20
1,1,2-Trichloroethane			50.0	51.1		ug/Kg		102	70 - 130	5	20
Trichloroethene			50.0	56.6		ug/Kg		113	70 - 133	1	20
Trichlorofluoromethane			50.0	51.2		ug/Kg		102	60 - 140	3	20
1,2,3-Trichloropropane			50.0	45.7		ug/Kg		91	70 - 146	10	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	61.4		ug/Kg		123	60 - 140	5	20
1,2,4-Trimethylbenzene			50.0	49.8		ug/Kg		100	70 - 130	0	20
1,3,5-Trimethylbenzene			50.0	49.4		ug/Kg		99	70 - 131	1	20
Vinyl acetate			50.0	ND		ug/Kg		91	38 - 176	8	20
Vinyl chloride			50.0	42.0		ug/Kg		84	58 - 125	4	20
m-Xylene & p-Xylene			100	99.4		ug/Kg		99	70 - 146	2	20
o-Xylene			50.0	50.0		ug/Kg		100	70 - 140	2	20
2,2-Dichloropropane			50.0	52.3		ug/Kg		105	70 - 162	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCSD 720-145910/8
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1010		ug/Kg		101	61 - 128	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: MB 720-145970/4
Matrix: Solid
Analysis Batch: 145970

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			10/10/13 20:07	1
Acetone	ND		50		ug/Kg			10/10/13 20:07	1
Benzene	ND		5.0		ug/Kg			10/10/13 20:07	1
Dichlorobromomethane	ND		5.0		ug/Kg			10/10/13 20:07	1
Bromobenzene	ND		5.0		ug/Kg			10/10/13 20:07	1
Chlorobromomethane	ND		20		ug/Kg			10/10/13 20:07	1
Bromoform	ND		5.0		ug/Kg			10/10/13 20:07	1
Bromomethane	ND		10		ug/Kg			10/10/13 20:07	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-145970/4
Matrix: Solid
Analysis Batch: 145970

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		50		ug/Kg			10/10/13 20:07	1
n-Butylbenzene	ND		5.0		ug/Kg			10/10/13 20:07	1
sec-Butylbenzene	ND		5.0		ug/Kg			10/10/13 20:07	1
tert-Butylbenzene	ND		5.0		ug/Kg			10/10/13 20:07	1
Carbon disulfide	ND		5.0		ug/Kg			10/10/13 20:07	1
Carbon tetrachloride	ND		5.0		ug/Kg			10/10/13 20:07	1
Chlorobenzene	ND		5.0		ug/Kg			10/10/13 20:07	1
Chloroethane	ND		10		ug/Kg			10/10/13 20:07	1
Chloroform	ND		5.0		ug/Kg			10/10/13 20:07	1
Chloromethane	ND		10		ug/Kg			10/10/13 20:07	1
2-Chlorotoluene	ND		5.0		ug/Kg			10/10/13 20:07	1
4-Chlorotoluene	ND		5.0		ug/Kg			10/10/13 20:07	1
Chlorodibromomethane	ND		5.0		ug/Kg			10/10/13 20:07	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			10/10/13 20:07	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			10/10/13 20:07	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			10/10/13 20:07	1
1,3-Dichloropropane	ND		5.0		ug/Kg			10/10/13 20:07	1
1,1-Dichloropropene	ND		5.0		ug/Kg			10/10/13 20:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			10/10/13 20:07	1
Ethylene Dibromide	ND		5.0		ug/Kg			10/10/13 20:07	1
Dibromomethane	ND		10		ug/Kg			10/10/13 20:07	1
Dichlorodifluoromethane	ND		10		ug/Kg			10/10/13 20:07	1
1,1-Dichloroethane	ND		5.0		ug/Kg			10/10/13 20:07	1
1,2-Dichloroethane	ND		5.0		ug/Kg			10/10/13 20:07	1
1,1-Dichloroethene	ND		5.0		ug/Kg			10/10/13 20:07	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			10/10/13 20:07	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			10/10/13 20:07	1
1,2-Dichloropropane	ND		5.0		ug/Kg			10/10/13 20:07	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			10/10/13 20:07	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			10/10/13 20:07	1
Ethylbenzene	ND		5.0		ug/Kg			10/10/13 20:07	1
Hexachlorobutadiene	ND		5.0		ug/Kg			10/10/13 20:07	1
2-Hexanone	ND		50		ug/Kg			10/10/13 20:07	1
Isopropylbenzene	ND		5.0		ug/Kg			10/10/13 20:07	1
4-Isopropyltoluene	ND		5.0		ug/Kg			10/10/13 20:07	1
Methylene Chloride	ND		10		ug/Kg			10/10/13 20:07	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			10/10/13 20:07	1
Naphthalene	ND		10		ug/Kg			10/10/13 20:07	1
N-Propylbenzene	ND		5.0		ug/Kg			10/10/13 20:07	1
Styrene	ND		5.0		ug/Kg			10/10/13 20:07	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			10/10/13 20:07	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			10/10/13 20:07	1
Tetrachloroethene	ND		5.0		ug/Kg			10/10/13 20:07	1
Toluene	ND		5.0		ug/Kg			10/10/13 20:07	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			10/10/13 20:07	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			10/10/13 20:07	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			10/10/13 20:07	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			10/10/13 20:07	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-145970/4
Matrix: Solid
Analysis Batch: 145970

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		5.0		ug/Kg			10/10/13 20:07	1
Trichlorofluoromethane	ND		5.0		ug/Kg			10/10/13 20:07	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			10/10/13 20:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			10/10/13 20:07	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			10/10/13 20:07	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			10/10/13 20:07	1
Vinyl acetate	ND		50		ug/Kg			10/10/13 20:07	1
Vinyl chloride	ND		5.0		ug/Kg			10/10/13 20:07	1
Xylenes, Total	ND		10		ug/Kg			10/10/13 20:07	1
2,2-Dichloropropane	ND		5.0		ug/Kg			10/10/13 20:07	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			10/10/13 20:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*45 - 131*		*10/10/13 20:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*		*10/10/13 20:07*	*1*
Toluene-d8 (Surr)	*101*		*58 - 140*		*10/10/13 20:07*	*1*

Lab Sample ID: LCS 720-145970/5
Matrix: Solid
Analysis Batch: 145970

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	54.6		ug/Kg		109	70 - 144
Acetone	250	227		ug/Kg		91	30 - 162
Benzene	50.0	48.2		ug/Kg		96	70 - 130
Dichlorobromomethane	50.0	52.6		ug/Kg		105	70 - 131
Bromobenzene	50.0	53.0		ug/Kg		106	70 - 130
Chlorobromomethane	50.0	58.4		ug/Kg		117	70 - 130
Bromoform	50.0	64.2		ug/Kg		128	59 - 158
Bromomethane	50.0	45.7		ug/Kg		91	59 - 132
2-Butanone (MEK)	250	253		ug/Kg		101	53 - 124
n-Butylbenzene	50.0	46.0		ug/Kg		92	70 - 142
sec-Butylbenzene	50.0	45.9		ug/Kg		92	70 - 136
tert-Butylbenzene	50.0	48.2		ug/Kg		96	70 - 130
Carbon disulfide	50.0	46.3		ug/Kg		93	60 - 140
Carbon tetrachloride	50.0	53.1		ug/Kg		106	70 - 138
Chlorobenzene	50.0	52.7		ug/Kg		105	70 - 130
Chloroethane	50.0	40.3		ug/Kg		81	65 - 130
Chloroform	50.0	51.4		ug/Kg		103	77 - 127
Chloromethane	50.0	33.8		ug/Kg		68	55 - 140
2-Chlorotoluene	50.0	46.3		ug/Kg		93	70 - 138
4-Chlorotoluene	50.0	45.3		ug/Kg		91	70 - 136
Chlorodibromomethane	50.0	60.6		ug/Kg		121	70 - 146
1,2-Dichlorobenzene	50.0	54.1		ug/Kg		108	70 - 130
1,3-Dichlorobenzene	50.0	53.0		ug/Kg		106	70 - 131
1,4-Dichlorobenzene	50.0	53.6		ug/Kg		107	70 - 130
1,3-Dichloropropane	50.0	54.3		ug/Kg		109	70 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-145970/5
Matrix: Solid
Analysis Batch: 145970

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	50.0	50.5		ug/Kg		101	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	61.5		ug/Kg		123	60 - 145
Ethylene Dibromide	50.0	60.4		ug/Kg		121	70 - 140
Dibromomethane	50.0	55.5		ug/Kg		111	70 - 139
Dichlorodifluoromethane	50.0	43.5		ug/Kg		87	37 - 158
1,1-Dichloroethane	50.0	47.4		ug/Kg		95	70 - 130
1,2-Dichloroethane	50.0	50.9		ug/Kg		102	70 - 130
1,1-Dichloroethene	50.0	49.9		ug/Kg		100	76 - 122
cis-1,2-Dichloroethene	50.0	46.8		ug/Kg		94	70 - 138
trans-1,2-Dichloroethene	50.0	52.6		ug/Kg		105	67 - 130
1,2-Dichloropropane	50.0	49.5		ug/Kg		99	73 - 127
cis-1,3-Dichloropropene	50.0	54.6		ug/Kg		109	68 - 147
trans-1,3-Dichloropropene	50.0	55.1		ug/Kg		110	70 - 136
Ethylbenzene	50.0	47.4		ug/Kg		95	80 - 137
Hexachlorobutadiene	50.0	58.0		ug/Kg		116	70 - 132
2-Hexanone	250	208		ug/Kg		83	44 - 133
Isopropylbenzene	50.0	50.3		ug/Kg		101	88 - 128
4-Isopropyltoluene	50.0	47.8		ug/Kg		96	70 - 133
Methylene Chloride	50.0	50.8		ug/Kg		102	70 - 134
4-Methyl-2-pentanone (MIBK)	250	214		ug/Kg		86	60 - 160
Naphthalene	50.0	56.6		ug/Kg		113	60 - 147
N-Propylbenzene	50.0	46.6		ug/Kg		93	70 - 130
Styrene	50.0	49.9		ug/Kg		100	70 - 130
1,1,1,2-Tetrachloroethane	50.0	55.5		ug/Kg		111	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.2		ug/Kg		100	70 - 146
Tetrachloroethene	50.0	58.6		ug/Kg		117	70 - 132
Toluene	50.0	47.7		ug/Kg		95	80 - 128
1,2,3-Trichlorobenzene	50.0	59.4		ug/Kg		119	60 - 140
1,2,4-Trichlorobenzene	50.0	58.3		ug/Kg		117	60 - 140
1,1,1-Trichloroethane	50.0	50.8		ug/Kg		102	70 - 130
1,1,2-Trichloroethane	50.0	58.7		ug/Kg		117	70 - 130
Trichloroethene	50.0	56.1		ug/Kg		112	70 - 133
Trichlorofluoromethane	50.0	48.5		ug/Kg		97	60 - 140
1,2,3-Trichloropropane	50.0	54.1		ug/Kg		108	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.4		ug/Kg		113	60 - 140
1,2,4-Trimethylbenzene	50.0	48.3		ug/Kg		97	70 - 130
1,3,5-Trimethylbenzene	50.0	47.3		ug/Kg		95	70 - 131
Vinyl acetate	50.0	51.2		ug/Kg		102	38 - 176
Vinyl chloride	50.0	38.2		ug/Kg		76	58 - 125
m-Xylene & p-Xylene	100	95.7		ug/Kg		96	70 - 146
o-Xylene	50.0	49.1		ug/Kg		98	70 - 140
2,2-Dichloropropane	50.0	49.0		ug/Kg		98	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-145970/7
Matrix: Solid
Analysis Batch: 145970

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			1000	917		ug/Kg		92	61 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*
Toluene-d8 (Surr)	*100*		*58 - 140*

Lab Sample ID: LCSD 720-145970/6
Matrix: Solid
Analysis Batch: 145970

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether			50.0	53.5		ug/Kg		107	70 - 144	2	20
Acetone			250	227		ug/Kg		91	30 - 162	0	30
Benzene			50.0	47.4		ug/Kg		95	70 - 130	2	20
Dichlorobromomethane			50.0	52.1		ug/Kg		104	70 - 131	1	20
Bromobenzene			50.0	52.2		ug/Kg		104	70 - 130	2	20
Chlorobromomethane			50.0	57.1		ug/Kg		114	70 - 130	2	20
Bromoform			50.0	65.5		ug/Kg		131	59 - 158	2	20
Bromomethane			50.0	48.2		ug/Kg		96	59 - 132	5	20
2-Butanone (MEK)			250	254		ug/Kg		102	53 - 124	1	20
n-Butylbenzene			50.0	45.9		ug/Kg		92	70 - 142	0	20
sec-Butylbenzene			50.0	46.6		ug/Kg		93	70 - 136	1	20
tert-Butylbenzene			50.0	48.7		ug/Kg		97	70 - 130	1	20
Carbon disulfide			50.0	47.5		ug/Kg		95	60 - 140	3	20
Carbon tetrachloride			50.0	53.2		ug/Kg		106	70 - 138	0	20
Chlorobenzene			50.0	52.4		ug/Kg		105	70 - 130	1	20
Chloroethane			50.0	42.2		ug/Kg		84	65 - 130	5	20
Chloroform			50.0	50.4		ug/Kg		101	77 - 127	2	20
Chloromethane			50.0	35.2		ug/Kg		70	55 - 140	4	20
2-Chlorotoluene			50.0	46.3		ug/Kg		93	70 - 138	0	20
4-Chlorotoluene			50.0	45.1		ug/Kg		90	70 - 136	0	20
Chlorodibromomethane			50.0	60.4		ug/Kg		121	70 - 146	0	20
1,2-Dichlorobenzene			50.0	53.2		ug/Kg		106	70 - 130	2	20
1,3-Dichlorobenzene			50.0	52.7		ug/Kg		105	70 - 131	1	20
1,4-Dichlorobenzene			50.0	53.3		ug/Kg		107	70 - 130	1	20
1,3-Dichloropropane			50.0	54.3		ug/Kg		109	70 - 140	0	20
1,1-Dichloropropene			50.0	50.3		ug/Kg		101	70 - 130	1	20
1,2-Dibromo-3-Chloropropane			50.0	60.5		ug/Kg		121	60 - 145	2	20
Ethylene Dibromide			50.0	60.8		ug/Kg		122	70 - 140	1	20
Dibromomethane			50.0	54.8		ug/Kg		110	70 - 139	1	20
Dichlorodifluoromethane			50.0	44.8		ug/Kg		90	37 - 158	3	20
1,1-Dichloroethane			50.0	46.4		ug/Kg		93	70 - 130	2	20
1,2-Dichloroethane			50.0	50.1		ug/Kg		100	70 - 130	2	20
1,1-Dichloroethene			50.0	51.3		ug/Kg		103	76 - 122	3	20
cis-1,2-Dichloroethene			50.0	46.1		ug/Kg		92	70 - 138	1	20
trans-1,2-Dichloroethene			50.0	51.4		ug/Kg		103	67 - 130	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-145970/6
Matrix: Solid
Analysis Batch: 145970

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane			50.0	49.3		ug/Kg		99	73 - 127	0	20
cis-1,3-Dichloropropene			50.0	53.7		ug/Kg		107	68 - 147	2	20
trans-1,3-Dichloropropene			50.0	54.1		ug/Kg		108	70 - 136	2	20
Ethylbenzene			50.0	47.6		ug/Kg		95	80 - 137	0	20
Hexachlorobutadiene			50.0	57.1		ug/Kg		114	70 - 132	2	20
2-Hexanone			250	208		ug/Kg		83	44 - 133	0	20
Isopropylbenzene			50.0	51.2		ug/Kg		102	88 - 128	2	20
4-Isopropyltoluene			50.0	48.5		ug/Kg		97	70 - 133	2	20
Methylene Chloride			50.0	50.6		ug/Kg		101	70 - 134	0	20
4-Methyl-2-pentanone (MIBK)			250	214		ug/Kg		85	60 - 160	0	20
Naphthalene			50.0	56.7		ug/Kg		113	60 - 147	0	20
N-Propylbenzene			50.0	46.3		ug/Kg		93	70 - 130	1	20
Styrene			50.0	50.4		ug/Kg		101	70 - 130	1	20
1,1,1,2-Tetrachloroethane			50.0	55.5		ug/Kg		111	70 - 130	0	20
1,1,2,2-Tetrachloroethane			50.0	49.9		ug/Kg		100	70 - 146	1	20
Tetrachloroethene			50.0	58.1		ug/Kg		116	70 - 132	1	20
Toluene			50.0	47.2		ug/Kg		94	80 - 128	1	20
1,2,3-Trichlorobenzene			50.0	58.8		ug/Kg		118	60 - 140	1	20
1,2,4-Trichlorobenzene			50.0	57.8		ug/Kg		116	60 - 140	1	20
1,1,1-Trichloroethane			50.0	50.7		ug/Kg		101	70 - 130	0	20
1,1,2-Trichloroethane			50.0	57.6		ug/Kg		115	70 - 130	2	20
Trichloroethene			50.0	55.9		ug/Kg		112	70 - 133	0	20
Trichlorofluoromethane			50.0	50.3		ug/Kg		101	60 - 140	4	20
1,2,3-Trichloropropane			50.0	53.6		ug/Kg		107	70 - 146	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	58.9		ug/Kg		118	60 - 140	4	20
1,2,4-Trimethylbenzene			50.0	48.7		ug/Kg		97	70 - 130	1	20
1,3,5-Trimethylbenzene			50.0	47.7		ug/Kg		95	70 - 131	1	20
Vinyl acetate			50.0	ND		ug/Kg		97	38 - 176	6	20
Vinyl chloride			50.0	39.8		ug/Kg		80	58 - 125	4	20
m-Xylene & p-Xylene			100	95.7		ug/Kg		96	70 - 146	0	20
o-Xylene			50.0	49.6		ug/Kg		99	70 - 140	1	20
2,2-Dichloropropane			50.0	47.6		ug/Kg		95	70 - 162	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 140*
Toluene-d8 (Surr)	*99*		*58 - 140*

Lab Sample ID: LCSD 720-145970/8
Matrix: Solid
Analysis Batch: 145970

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	905		ug/Kg		90	61 - 128	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-145970/8
Matrix: Solid
Analysis Batch: 145970

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*
Toluene-d8 (Surr)	*99*		*58 - 140*

Method: 8270C SIM - PAHs by GCMS (SIM)

Lab Sample ID: MB 720-145958/1-A
Matrix: Water
Analysis Batch: 146036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 145958

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10		ug/L		10/10/13 14:37	10/11/13 13:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*45*		*29 - 120*	*10/10/13 14:37*	*10/11/13 13:55*	*1*
Terphenyl-d14	*65*		*45 - 120*	*10/10/13 14:37*	*10/11/13 13:55*	*1*

Lab Sample ID: LCS 720-145958/2-A
Matrix: Water
Analysis Batch: 146036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 145958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	10.0	7.06		ug/L		71	29 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*73*		*29 - 120*
Terphenyl-d14	*78*		*45 - 120*

Lab Sample ID: LCSD 720-145958/3-A
Matrix: Water
Analysis Batch: 146036

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 145958

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene	10.0	5.28		ug/L		53	29 - 120	29	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*57*		*29 - 120*
Terphenyl-d14	*71*		*45 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-145762/1-A
Matrix: Solid
Analysis Batch: 145826

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 145762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		10/08/13 13:35	10/09/13 18:34	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-145762/1-A
Matrix: Solid
Analysis Batch: 145826

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 145762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		10/08/13 13:35	10/09/13 18:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.006*		*0 - 1*	*10/08/13 13:35*	*10/09/13 18:34*	*1*
p-Terphenyl	*100*		*38 - 148*	*10/08/13 13:35*	*10/09/13 18:34*	*1*

Lab Sample ID: LCS 720-145762/2-A
Matrix: Solid
Analysis Batch: 145826

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 145762

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.2	82.8		mg/Kg		100	36 - 112

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*105*		*38 - 148*

Lab Sample ID: LCSD 720-145762/3-A
Matrix: Solid
Analysis Batch: 145826

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 145762

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	82.3	83.0		mg/Kg		101	36 - 112	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*107*		*38 - 148*

Lab Sample ID: MB 720-145851/1-A
Matrix: Solid
Analysis Batch: 145829

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 145851

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		10/09/13 11:07	10/09/13 23:10	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		10/09/13 11:07	10/09/13 23:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.07*		*0 - 1*	*10/09/13 11:07*	*10/09/13 23:10*	*1*
p-Terphenyl	*105*		*38 - 148*	*10/09/13 11:07*	*10/09/13 23:10*	*1*

Lab Sample ID: LCS 720-145851/2-A
Matrix: Solid
Analysis Batch: 145829

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 145851

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	82.9	75.1		mg/Kg		91	36 - 112

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-145851/2-A
Matrix: Solid
Analysis Batch: 145829

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 145851

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*113*		*38 - 148*

Lab Sample ID: LCSD 720-145851/3-A
Matrix: Solid
Analysis Batch: 145829

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 145851

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.7	81.6		mg/Kg		99	36 - 112	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	*117*		*38 - 148*

Lab Sample ID: MB 720-145921/1-A
Matrix: Water
Analysis Batch: 145912

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 145921

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		10/10/13 08:43	10/11/13 04:23	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		10/10/13 08:43	10/11/13 04:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	*0.007*		*0 - 5*	*10/10/13 08:43*	*10/11/13 04:23*	*1*
p-Terphenyl	*97*		*31 - 150*	*10/10/13 08:43*	*10/11/13 04:23*	*1*

Lab Sample ID: LCS 720-145921/2-A
Matrix: Water
Analysis Batch: 145912

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 145921

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			2500	1810		ug/L		72	32 - 119		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*91*		*31 - 150*

Lab Sample ID: LCSD 720-145921/3-A
Matrix: Water
Analysis Batch: 145912

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 145921

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			2500	1880		ug/L		75	32 - 119	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	*97*		*31 - 150*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-145691/1-A
Matrix: Water
Analysis Batch: 145798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 145691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050		mg/L		10/07/13 18:29	10/08/13 16:25	1

Lab Sample ID: LCS 720-145691/2-A
Matrix: Water
Analysis Batch: 145798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 145691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	0.954		mg/L		95	80 - 120

Lab Sample ID: LCSD 720-145691/3-A
Matrix: Water
Analysis Batch: 145798

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 145691

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.00	0.971		mg/L		97	80 - 120	2	20

Lab Sample ID: MB 720-145898/1-A
Matrix: Solid
Analysis Batch: 145966

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 145898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Arsenic	ND		1.0		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Barium	ND		0.50		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Beryllium	ND		0.10		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Cadmium	ND		0.13		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Chromium	ND		0.50		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Cobalt	ND		0.20		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Copper	ND		1.5		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Lead	ND		0.50		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Molybdenum	ND		0.50		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Nickel	ND		0.50		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Selenium	ND		1.0		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Silver	ND		0.25		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Thallium	ND		0.50		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Vanadium	ND		0.50		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Zinc	ND		1.5		mg/Kg		10/09/13 19:17	10/10/13 15:14	1

Lab Sample ID: LCS 720-145898/2-A
Matrix: Solid
Analysis Batch: 145966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 145898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.4		mg/Kg		95	80 - 120
Arsenic	50.0	50.3		mg/Kg		101	80 - 120
Barium	50.0	59.8		mg/Kg		120	80 - 120
Beryllium	50.0	51.5		mg/Kg		103	80 - 120
Cadmium	50.0	50.2		mg/Kg		100	80 - 120
Chromium	50.0	54.1		mg/Kg		108	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-145898/2-A
Matrix: Solid
Analysis Batch: 145966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 145898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	50.0	51.2		mg/Kg		102	80 - 120
Copper	50.0	53.1		mg/Kg		106	80 - 120
Lead	50.0	52.7		mg/Kg		105	80 - 120
Molybdenum	50.0	52.0		mg/Kg		104	80 - 120
Nickel	50.0	53.2		mg/Kg		106	80 - 120
Selenium	50.0	49.5		mg/Kg		99	80 - 120
Silver	25.0	28.0		mg/Kg		112	80 - 120
Thallium	50.0	52.9		mg/Kg		106	80 - 120
Vanadium	50.0	50.5		mg/Kg		101	80 - 120
Zinc	50.0	51.0		mg/Kg		102	80 - 120

Lab Sample ID: LCSD 720-145898/3-A
Matrix: Solid
Analysis Batch: 145966

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 145898

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	47.9		mg/Kg		96	80 - 120	1	20
Arsenic	50.0	50.2		mg/Kg		100	80 - 120	0	20
Barium	50.0	59.3		mg/Kg		119	80 - 120	1	20
Beryllium	50.0	51.1		mg/Kg		102	80 - 120	1	20
Cadmium	50.0	50.0		mg/Kg		100	80 - 120	0	20
Chromium	50.0	53.7		mg/Kg		107	80 - 120	1	20
Cobalt	50.0	51.0		mg/Kg		102	80 - 120	0	20
Copper	50.0	52.8		mg/Kg		106	80 - 120	1	20
Lead	50.0	52.4		mg/Kg		105	80 - 120	1	20
Molybdenum	50.0	51.9		mg/Kg		104	80 - 120	0	20
Nickel	50.0	52.8		mg/Kg		106	80 - 120	1	20
Selenium	50.0	49.3		mg/Kg		99	80 - 120	0	20
Silver	25.0	28.1		mg/Kg		112	80 - 120	0	20
Thallium	50.0	52.7		mg/Kg		105	80 - 120	0	20
Vanadium	50.0	50.1		mg/Kg		100	80 - 120	1	20
Zinc	50.0	50.8		mg/Kg		102	80 - 120	0	20

Lab Sample ID: 720-52801-5 MS
Matrix: Solid
Analysis Batch: 145966

Client Sample ID: CF5-1-SPOILS-COMP.
Prep Type: Total/NA
Prep Batch: 145898

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		47.2	18.4	F	mg/Kg		36	75 - 125
Arsenic	4.7		47.2	54.9		mg/Kg		106	75 - 125
Barium	180		47.2	416	F	mg/Kg		491	75 - 125
Beryllium	ND		47.2	64.8	F	mg/Kg		137	75 - 125
Cadmium	ND		47.2	50.3		mg/Kg		107	75 - 125
Chromium	65		47.2	121		mg/Kg		118	75 - 125
Cobalt	12		47.2	61.7		mg/Kg		106	75 - 125
Copper	38		47.2	95.2		mg/Kg		121	75 - 125
Lead	33		47.2	110	F	mg/Kg		163	75 - 125
Molybdenum	ND		47.2	51.9		mg/Kg		108	75 - 125
Nickel	75		47.2	122		mg/Kg		99	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-52801-5 MS
Matrix: Solid
Analysis Batch: 145966

Client Sample ID: CF5-1-SPOILS-COMP.
Prep Type: Total/NA
Prep Batch: 145898

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	ND		47.2	50.6		mg/Kg		106	75 - 125
Silver	ND		23.6	33.5	F	mg/Kg		142	75 - 125
Thallium	ND		47.2	52.6		mg/Kg		110	75 - 125
Vanadium	43		47.2	100		mg/Kg		122	75 - 125
Zinc	93		47.2	133		mg/Kg		86	75 - 125

Lab Sample ID: 720-52801-5 MSD
Matrix: Solid
Analysis Batch: 145966

Client Sample ID: CF5-1-SPOILS-COMP.
Prep Type: Total/NA
Prep Batch: 145898

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		49.0	19.0	F	mg/Kg		36	75 - 125	4	20
Arsenic	4.7		49.0	59.2		mg/Kg		111	75 - 125	8	20
Barium	180		49.0	220	F	mg/Kg		71	75 - 125	62	20
Beryllium	ND		49.0	63.2	F	mg/Kg		129	75 - 125	2	20
Cadmium	ND		49.0	54.6		mg/Kg		111	75 - 125	8	20
Chromium	65		49.0	121		mg/Kg		114	75 - 125	0	20
Cobalt	12		49.0	64.7		mg/Kg		108	75 - 125	5	20
Copper	38		49.0	101	F	mg/Kg		129	75 - 125	6	20
Lead	33		49.0	85.7	F	mg/Kg		107	75 - 125	25	20
Molybdenum	ND		49.0	55.6		mg/Kg		111	75 - 125	7	20
Nickel	75		49.0	122		mg/Kg		94	75 - 125	0	20
Selenium	ND		49.0	55.4		mg/Kg		111	75 - 125	9	20
Silver	ND		24.5	34.5	F	mg/Kg		141	75 - 125	3	20
Thallium	ND		49.0	56.9		mg/Kg		114	75 - 125	8	20
Vanadium	43		49.0	89.2		mg/Kg		95	75 - 125	12	20
Zinc	93		49.0	119	F	mg/Kg		54	75 - 125	11	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-145979/1-A
Matrix: Solid
Analysis Batch: 146052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 145979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		10/10/13 18:03	10/11/13 13:30	1

Lab Sample ID: LCS 720-145979/2-A
Matrix: Solid
Analysis Batch: 146052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 145979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.828		mg/Kg		99	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 720-145979/3-A
Matrix: Solid
Analysis Batch: 146052

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 145979

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.833	0.802		mg/Kg		96	80 - 120	3	20

Lab Sample ID: 720-52801-5 MS
Matrix: Solid
Analysis Batch: 146052

Client Sample ID: CF5-1-SPOILS-COMP.
Prep Type: Total/NA
Prep Batch: 145979

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.14		0.714	0.843		mg/Kg		98	75 - 125		

Lab Sample ID: 720-52801-5 MSD
Matrix: Solid
Analysis Batch: 146052

Client Sample ID: CF5-1-SPOILS-COMP.
Prep Type: Total/NA
Prep Batch: 145979

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.14		0.725	0.833		mg/Kg		95	75 - 125	1	20

GC/MS VOA

Analysis Batch: 145871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-31	EB10042013	Total/NA	Water	8260B	
LCS 720-145871/5	Lab Control Sample	Total/NA	Water	8260B	
LCS 720-145871/7	Lab Control Sample	Total/NA	Water	8260B	
LCSD 720-145871/6	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 720-145871/8	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 720-145871/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 145910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-10	EX9-2-SPOILS-COMP.	Total/NA	Solid	8260B	145942
720-52801-20	EX10/11-SEG1-SPOILS-COMP.	Total/NA	Solid	8260B	145942
LCS 720-145910/10	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-145910/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-145910/11	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-145910/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-145910/4	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 145942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-10	EX9-2-SPOILS-COMP.	Total/NA	Solid	5030B	
720-52801-20	EX10/11-SEG1-SPOILS-COMP.	Total/NA	Solid	5030B	

Analysis Batch: 145970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-5	CF5-1-SPOILS-COMP.	Total/NA	Solid	8260B	145995
720-52801-15	EX7-2-SPOILS-COMP.	Total/NA	Solid	8260B	145995
720-52801-25	EX10/11-SEG2-SPOILS-COMP.A.	Total/NA	Solid	8260B	145995
720-52801-30	EX10/11-SEG2-SPOILS-COMP.B.	Total/NA	Solid	8260B	145995
LCS 720-145970/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-145970/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-145970/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-145970/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-145970/4	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 145995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-5	CF5-1-SPOILS-COMP.	Total/NA	Solid	5030B	
720-52801-15	EX7-2-SPOILS-COMP.	Total/NA	Solid	5030B	
720-52801-25	EX10/11-SEG2-SPOILS-COMP.A.	Total/NA	Solid	5030B	
720-52801-30	EX10/11-SEG2-SPOILS-COMP.B.	Total/NA	Solid	5030B	

GC/MS Semi VOA

Prep Batch: 145958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-31	EB10042013	Total/NA	Water	3510C	
LCS 720-145958/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-145958/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-145958/1-A	Method Blank	Total/NA	Water	3510C	

GC/MS Semi VOA (Continued)

Analysis Batch: 146036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-31	EB10042013	Total/NA	Water	8270C SIM	145958
LCS 720-145958/2-A	Lab Control Sample	Total/NA	Water	8270C SIM	145958
LCSD 720-145958/3-A	Lab Control Sample Dup	Total/NA	Water	8270C SIM	145958
MB 720-145958/1-A	Method Blank	Total/NA	Water	8270C SIM	145958

GC Semi VOA

Prep Batch: 145762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-25	EX10/11-SEG2-SPOILS-COMP.A.	Silica Gel Cleanup	Solid	3546	
720-52801-30	EX10/11-SEG2-SPOILS-COMP.B.	Silica Gel Cleanup	Solid	3546	
LCS 720-145762/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-145762/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-145762/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 145826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-145762/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	145762
LCSD 720-145762/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	145762
MB 720-145762/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	145762

Analysis Batch: 145827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-25	EX10/11-SEG2-SPOILS-COMP.A.	Silica Gel Cleanup	Solid	8015B	145762

Analysis Batch: 145829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-145851/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	145851
LCSD 720-145851/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	145851
MB 720-145851/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	145851

Prep Batch: 145851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-5	CF5-1-SPOILS-COMP.	Silica Gel Cleanup	Solid	3546	
720-52801-10	EX9-2-SPOILS-COMP.	Silica Gel Cleanup	Solid	3546	
720-52801-15	EX7-2-SPOILS-COMP.	Silica Gel Cleanup	Solid	3546	
720-52801-20	EX10/11-SEG1-SPOILS-COMP.	Silica Gel Cleanup	Solid	3546	
LCS 720-145851/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-145851/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-145851/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 145912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-145921/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	145921
LCSD 720-145921/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	145921
MB 720-145921/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	145921

Analysis Batch: 145913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-30	EX10/11-SEG2-SPOILS-COMP.B.	Silica Gel Cleanup	Solid	8015B	145762

GC Semi VOA (Continued)

Analysis Batch: 145913 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-31	EB10042013	Silica Gel Cleanup	Water	8015B	145921

Prep Batch: 145921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-31	EB10042013	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-145921/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-145921/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 720-145921/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

Analysis Batch: 146010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-5	CF5-1-SPOILS-COMP.	Silica Gel Cleanup	Solid	8015B	145851
720-52801-10	EX9-2-SPOILS-COMP.	Silica Gel Cleanup	Solid	8015B	145851
720-52801-15	EX7-2-SPOILS-COMP.	Silica Gel Cleanup	Solid	8015B	145851
720-52801-20	EX10/11-SEG1-SPOILS-COMP.	Silica Gel Cleanup	Solid	8015B	145851

Metals

Prep Batch: 145691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-31	EB10042013	Total/NA	Water	3010A	
LCS 720-145691/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 720-145691/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 720-145691/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 145798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-31	EB10042013	Total/NA	Water	6010B	145691
LCS 720-145691/2-A	Lab Control Sample	Total/NA	Water	6010B	145691
LCSD 720-145691/3-A	Lab Control Sample Dup	Total/NA	Water	6010B	145691
MB 720-145691/1-A	Method Blank	Total/NA	Water	6010B	145691

Prep Batch: 145898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-5	CF5-1-SPOILS-COMP.	Total/NA	Solid	3050B	
720-52801-5 MS	CF5-1-SPOILS-COMP.	Total/NA	Solid	3050B	
720-52801-5 MSD	CF5-1-SPOILS-COMP.	Total/NA	Solid	3050B	
720-52801-10	EX9-2-SPOILS-COMP.	Total/NA	Solid	3050B	
720-52801-15	EX7-2-SPOILS-COMP.	Total/NA	Solid	3050B	
720-52801-20	EX10/11-SEG1-SPOILS-COMP.	Total/NA	Solid	3050B	
720-52801-25	EX10/11-SEG2-SPOILS-COMP.A.	Total/NA	Solid	3050B	
720-52801-30	EX10/11-SEG2-SPOILS-COMP.B.	Total/NA	Solid	3050B	
LCS 720-145898/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-145898/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-145898/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 145966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-5	CF5-1-SPOILS-COMP.	Total/NA	Solid	6010B	145898
720-52801-5 MS	CF5-1-SPOILS-COMP.	Total/NA	Solid	6010B	145898

Metals (Continued)

Analysis Batch: 145966 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-5 MSD	CF5-1-SPOILS-COMP.	Total/NA	Solid	6010B	145898
LCS 720-145898/2-A	Lab Control Sample	Total/NA	Solid	6010B	145898
LCSD 720-145898/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	145898
MB 720-145898/1-A	Method Blank	Total/NA	Solid	6010B	145898

Prep Batch: 145979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-5	CF5-1-SPOILS-COMP.	Total/NA	Solid	7471A	
720-52801-5 MS	CF5-1-SPOILS-COMP.	Total/NA	Solid	7471A	
720-52801-5 MSD	CF5-1-SPOILS-COMP.	Total/NA	Solid	7471A	
720-52801-10	EX9-2-SPOILS-COMP.	Total/NA	Solid	7471A	
720-52801-15	EX7-2-SPOILS-COMP.	Total/NA	Solid	7471A	
720-52801-20	EX10/11-SEG1-SPOILS-COMP.	Total/NA	Solid	7471A	
720-52801-25	EX10/11-SEG2-SPOILS-COMP.A.	Total/NA	Solid	7471A	
720-52801-30	EX10/11-SEG2-SPOILS-COMP.B.	Total/NA	Solid	7471A	
LCS 720-145979/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-145979/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-145979/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 145996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-10	EX9-2-SPOILS-COMP.	Total/NA	Solid	6010B	145898
720-52801-15	EX7-2-SPOILS-COMP.	Total/NA	Solid	6010B	145898
720-52801-20	EX10/11-SEG1-SPOILS-COMP.	Total/NA	Solid	6010B	145898
720-52801-25	EX10/11-SEG2-SPOILS-COMP.A.	Total/NA	Solid	6010B	145898
720-52801-30	EX10/11-SEG2-SPOILS-COMP.B.	Total/NA	Solid	6010B	145898

Analysis Batch: 146052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-5	CF5-1-SPOILS-COMP.	Total/NA	Solid	7471A	145979
720-52801-5 MS	CF5-1-SPOILS-COMP.	Total/NA	Solid	7471A	145979
720-52801-5 MSD	CF5-1-SPOILS-COMP.	Total/NA	Solid	7471A	145979
720-52801-10	EX9-2-SPOILS-COMP.	Total/NA	Solid	7471A	145979
720-52801-15	EX7-2-SPOILS-COMP.	Total/NA	Solid	7471A	145979
720-52801-20	EX10/11-SEG1-SPOILS-COMP.	Total/NA	Solid	7471A	145979
720-52801-25	EX10/11-SEG2-SPOILS-COMP.A.	Total/NA	Solid	7471A	145979
720-52801-30	EX10/11-SEG2-SPOILS-COMP.B.	Total/NA	Solid	7471A	145979
LCS 720-145979/2-A	Lab Control Sample	Total/NA	Solid	7471A	145979
LCSD 720-145979/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	145979
MB 720-145979/1-A	Method Blank	Total/NA	Solid	7471A	145979

Client Sample ID: CF5-1-SPOILS-COMP.

Lab Sample ID: 720-52801-5

Date Collected: 10/04/13 08:30

Matrix: Solid

Date Received: 10/04/13 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145995	10/10/13 21:26	LPL	TAL PLS
Total/NA	Analysis	8260B		1	145970	10/11/13 00:51	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			145851	10/09/13 11:07	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	146010	10/11/13 18:32	DCH	TAL PLS
Total/NA	Prep	3050B			145898	10/09/13 19:17	CAM	TAL PLS
Total/NA	Analysis	6010B		4	145966	10/10/13 15:35	EFH	TAL PLS
Total/NA	Prep	7471A			145979	10/10/13 18:04	ECT	TAL PLS
Total/NA	Analysis	7471A		1	146052	10/11/13 13:42	EFH	TAL PLS

Client Sample ID: EX9-2-SPOILS-COMP.

Lab Sample ID: 720-52801-10

Date Collected: 10/04/13 08:50

Matrix: Solid

Date Received: 10/04/13 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145942	10/10/13 10:00	PDR	TAL PLS
Total/NA	Analysis	8260B		1	145910	10/10/13 15:03	LPL	TAL PLS
Silica Gel Cleanup	Prep	3546			145851	10/09/13 11:07	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	146010	10/11/13 18:07	DCH	TAL PLS
Total/NA	Prep	3050B			145898	10/09/13 19:17	CAM	TAL PLS
Total/NA	Analysis	6010B		4	145996	10/10/13 20:31	SLK	TAL PLS
Total/NA	Prep	7471A			145979	10/10/13 18:04	ECT	TAL PLS
Total/NA	Analysis	7471A		1	146052	10/11/13 13:45	EFH	TAL PLS

Client Sample ID: EX7-2-SPOILS-COMP.

Lab Sample ID: 720-52801-15

Date Collected: 10/04/13 11:00

Matrix: Solid

Date Received: 10/04/13 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145995	10/10/13 21:26	LPL	TAL PLS
Total/NA	Analysis	8260B		1	145970	10/11/13 01:17	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			145851	10/09/13 11:07	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	146010	10/11/13 18:56	DCH	TAL PLS
Total/NA	Prep	3050B			145898	10/09/13 19:17	CAM	TAL PLS
Total/NA	Analysis	6010B		4	145996	10/10/13 20:35	SLK	TAL PLS
Total/NA	Prep	7471A			145979	10/10/13 18:04	ECT	TAL PLS
Total/NA	Analysis	7471A		1	146052	10/11/13 13:47	EFH	TAL PLS

Client Sample ID: EX10/11-SEG1-SPOILS-COMP.

Lab Sample ID: 720-52801-20

Date Collected: 10/04/13 11:30

Matrix: Solid

Date Received: 10/04/13 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145942	10/10/13 10:00	PDR	TAL PLS

Client Sample ID: EX10/11-SEG1-SPOILS-COMP.

Lab Sample ID: 720-52801-20

Date Collected: 10/04/13 11:30

Matrix: Solid

Date Received: 10/04/13 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145910	10/10/13 15:55	LPL	TAL PLS
Silica Gel Cleanup	Prep	3546			145851	10/09/13 11:07	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	146010	10/11/13 17:43	DCH	TAL PLS
Total/NA	Prep	3050B			145898	10/09/13 19:17	CAM	TAL PLS
Total/NA	Analysis	6010B		4	145996	10/10/13 20:40	SLK	TAL PLS
Total/NA	Prep	7471A			145979	10/10/13 18:04	ECT	TAL PLS
Total/NA	Analysis	7471A		1	146052	10/11/13 13:50	EFH	TAL PLS

Client Sample ID: EX10/11-SEG2-SPOILS-COMP.A.

Lab Sample ID: 720-52801-25

Date Collected: 10/04/13 13:50

Matrix: Solid

Date Received: 10/04/13 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145995	10/10/13 21:26	LPL	TAL PLS
Total/NA	Analysis	8260B		1	145970	10/11/13 01:43	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			145762	10/08/13 13:35	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		50	145827	10/09/13 22:14	JL	TAL PLS
Total/NA	Prep	3050B			145898	10/09/13 19:17	CAM	TAL PLS
Total/NA	Analysis	6010B		4	145996	10/10/13 20:44	SLK	TAL PLS
Total/NA	Prep	7471A			145979	10/10/13 18:04	ECT	TAL PLS
Total/NA	Analysis	7471A		1	146052	10/11/13 13:52	EFH	TAL PLS

Client Sample ID: EX10/11-SEG2-SPOILS-COMP.B.

Lab Sample ID: 720-52801-30

Date Collected: 10/04/13 14:10

Matrix: Solid

Date Received: 10/04/13 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145995	10/10/13 21:26	LPL	TAL PLS
Total/NA	Analysis	8260B		1	145970	10/11/13 02:09	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			145762	10/08/13 13:35	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		50	145913	10/10/13 10:42	JL	TAL PLS
Total/NA	Prep	3050B			145898	10/09/13 19:17	CAM	TAL PLS
Total/NA	Analysis	6010B		4	145996	10/10/13 20:48	SLK	TAL PLS
Total/NA	Prep	7471A			145979	10/10/13 18:04	ECT	TAL PLS
Total/NA	Analysis	7471A		1	146052	10/11/13 13:59	EFH	TAL PLS

Client Sample ID: EB10042013

Lab Sample ID: 720-52801-31

Date Collected: 10/04/13 12:15

Matrix: Water

Date Received: 10/04/13 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145871	10/10/13 00:40	YYB	TAL PLS
Total/NA	Prep	3510C			145958	10/10/13 14:37	NDU	TAL PLS

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Client Sample ID: EB10042013
Date Collected: 10/04/13 12:15
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-31
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C SIM		1	146036	10/11/13 14:18	MQL	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			145921	10/10/13 08:43	BB	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	145913	10/11/13 01:33	JL	TAL PLS
Total/NA	Prep	3010A			145691	10/07/13 18:29	ASB	TAL PLS
Total/NA	Analysis	6010B		1	145798	10/08/13 18:12	EFH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8270C SIM	PAHs by GCMS (SIM)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-52801-5	CF5-1-SPOILS-COMP.	Solid	10/04/13 08:30	10/04/13 17:15
720-52801-10	EX9-2-SPOILS-COMP.	Solid	10/04/13 08:50	10/04/13 17:15
720-52801-15	EX7-2-SPOILS-COMP.	Solid	10/04/13 11:00	10/04/13 17:15
720-52801-20	EX10/11-SEG1-SPOILS-COMP.	Solid	10/04/13 11:30	10/04/13 17:15
720-52801-25	EX10/11-SEG2-SPOILS-COMP.A.	Solid	10/04/13 13:50	10/04/13 17:15
720-52801-30	EX10/11-SEG2-SPOILS-COMP.B.	Solid	10/04/13 14:10	10/04/13 17:15
720-52801-31	EB10042013	Water	10/04/13 12:15	10/04/13 17:15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-52801

Reference #: 149105

Date 10/4/13(F.) Page 1 of 4

10/14/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St., Walnut Creek, CA
Email: jschwartz@haleyaldrich.com
Bill To: Accts. Payable/HSA
Sampled By: VT, BSM
Attn: Accts. Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☒ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Please compute RGT to analyte. Lead Sample CF5-1-Spoils-Comp. Please compute RGT to analyte. Lead Sample EX9-2-Spoils-Comp.	Number of Containers
CF5-1-Spoils-1	10/4/13	0830	Soil	unp.																		X		1
CF5-1-Spoils-2	10/4/13	0835	Soil	unp.																		X		1
CF5-1-Spoils-3	10/4/13	0840	Soil	unp.																		X		1
CF5-1-Spoils-4	10/4/13	0845	Soil	unp.																		X		1
CF5-1-Spoils-Comp.					X		X	X					X											1
EX9-2-Spoils-1	10/4/13	0850	Soil	unp.																			X	1
EX9-2-Spoils-2	10/4/13	0900	Soil	unp.																			X	1
EX9-2-Spoils-3	10/4/13	0905	Soil	unp.																			X	1
EX9-2-Spoils-4	10/4/13	0930	Soil	unp.																			X	1
EX9-2-Spoils-Comp.					X		X	X					X											1

Project Info.

Project Name/ #: Former Hasan Aggregate Radium Facility
PO#: # 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 4.1°C

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by: [signature] 1715
Printed Name: Brendan J. Mulholland Date
Company: Haley & Aldrich 10/4/13

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by:
Signature Time
Printed Name Date
Company

720-52801 Chain of Custody

1) Received by: [signature] 1715
Signature Time
Printed Name: Justinn Gonzales Date: 10/4/13
Company: TAP

2) Received by:
Signature Time
Printed Name Date
Company

Signature Time
Printed Name Date
Company

Rev.10/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 149105

Date 10/4/13 (T.) Page 2 of 4

720-52801

10/14/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St., Walnut Creek, CA
Email: jschwartz@haleyaldrich.com
Bill To: H&A
Sampled By: VT, BJM
Attn: Accts. Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics-GC/MS (VOCs) ☒ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☒ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Please composite prior to analysis: Lab will Sample Ex9.2-Spoils-Comp.	Please composite prior to analysis: Lab will Sample Ex10/11-Seg 1-Spoils-Comp.	Number of Containers
Ex9.2-Spoils-1	10/4/13	1100	soil	unp.																			X		1
Ex9.2-Spoils-2	10/4/13	1105	soil	unp.																			X		1
Ex9.2-Spoils-3	10/4/13	1110	soil	unp.																			X		1
Ex9.2-Spoils-4	10/4/13	1115	soil	unp.																			X		1
Ex9.2-Spoils-Comp.					X		X	X					X												1
Ex10/11-Seg.1-Spoils-1	10/4/13	1130	soil	unp.																				X	1
Ex10/11-Seg.1-Spoils-2	10/4/13	1135	soil	unp.																				X	1
Ex10/11-Seg1-Spoils-3	10/4/13	1140	soil	unp.																				X	1
Ex10/11-Seg1-Spoils-4	10/4/13	1145	soil	unp.																				X	1
Ex10/11-Seg.1-Spoils-Comp.					X		X	X					X												1

Page 12 of 55

Project Info

Project Name/ #: Former Hansen Aggregate Radium Facility
PO#: #39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp:

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature	[signature]		
Time	17:15		
Printed Name	Brendan J. Mulholland		
Date			
Company	Haley & Aldrich 10/4/13		

	1) Received by:	2) Received by:	3) Received by:
Signature	[signature]		
Time	1715		
Printed Name	Kristin Gonzales		
Date	10/4/13		
Company	TAP		

Rev.10/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 149105

Date 10/4/13(F.) Page 3 of 4

720-52801

10/14/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2003 N. Main Street, Walnut Creek, CA
Email: jschwartz@haleyaldrich.com
Bill To: H&A
Sampled By: VT, BJM
Attn: Accts. Payable
Phone: 925-357-7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☒ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Please composite per EC to analysis: Liquid Sample EX10/11-Seg2-Spoils-Comp A Please composite per EC to analysis: Liquid Sample EX10/11-Seg2-Spoils-Comp B	Number of Containers
EX10/11-Seg2-Spoils-1	10/4/13	1350	Soil	unp.																		X			1
EX10/11-Seg2-Spoils-2	10/4/13	1355	Soil	unp.																		X			1
EX10/11-Seg2-Spoils-3	10/4/13	1400	Soil	unp.																		X			1
EX10/11-Seg2-Spoils-4	10/4/13	1405	Soil	unp.																		X			1
EX10/11-Seg2-Spoils-5	10/4/13	1410	Soil	unp.																			X		1
EX10/11-Seg2-Spoils-6	10/4/13	1415	Soil	unp.																			X		1
EX10/11-Seg2-Spoils-7	10/4/13	1420	Soil	unp.																			X		1
EX10/11-Seg2-Spoils-8	10/4/13	1425	Soil	unp.																			X		1
EX10/11-Seg2-Spoils-Comp. A					X		X	X					X												1
EX10/11-Seg2-Spoils-Comp B.					X		X	X					X												1

Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: # 39792

Sample Receipt

of Containers:
Head Space:
Temp:

Credit Card Y/N: If yes, please call with payment information ASAP

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___

See Terms and Conditions on reverse

1) Relinquished by:
Signature Time 1715
Brendan J. Mullaney
Printed Name Date
Haley & Aldrich 10/4/13
Company

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by:
Signature Time
Printed Name Date
Company

1) Received by:
Signature Time 1715
Justinn Gonzalez 10/4/13
Printed Name Date
TAP
Company

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by:
Signature Time
Printed Name Date
Company

Rev.10/2012

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THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 149105

Date 10/4/13 (F) Page 4 of 4

720-52801

10/14/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St., Walnut Creek, CA
Email: jschwartz@haleyaldrich.com
Bill To: HEA
Sampled By: VT, BJM
Attn: Accts. Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) X EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: X Gas X BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B X Silica Gel X Diesel X Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNAs/PAHs by X 8270C (Deuterated) ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: X 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: Pb	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
EB10042013	10/4/13	1215	water	HCl HNO3	X		X	X		X				X												8

Page 64 of 65

Project Info

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: # 39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp:

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	Signature / Time	Signature / Time
Brendan J. Mullane 1715		
Printed Name / Date	Printed Name / Date	Printed Name / Date
Haley & Aldrich 10/4/13		
Company	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature / Time	Signature / Time	Signature / Time
1715		
Printed Name / Date	Printed Name / Date	Printed Name / Date
Justin Gonzales 10/4/13		
TAP		
Company	Company	Company

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-52801-1

Login Number: 52801

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-52801-2
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz

Authorized for release by:
10/29/2013 9:06:07 AM

Dimple Sharma, Project Manager I
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-2

Job ID: 720-52801-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-52801-2

Comments
No additional comments.

Receipt
The samples were received on 10/4/2013 5:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 4.1° C.

Metals
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-2

Client Sample ID: CF5-1-SPOILS-COMP. — Lab Sample ID: 720-52801-5

No Detections.

Client Sample ID: EX9-2-SPOILS-COMP. — Lab Sample ID: 720-52801-10

No Detections.

Client Sample ID: EX10/11-SEG1-SPOILS-COMP. — Lab Sample ID: 720-52801-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.62		0.25		mg/L	2.5		6010B	STLC Citrate

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-2

Client Sample ID: CF5-1-SPOILS-COMP.
Date Collected: 10/04/13 08:30
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-5
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		10/28/13 10:31	10/28/13 16:00	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-2

Client Sample ID: EX9-2-SPOILS-COMP.
Date Collected: 10/04/13 08:50
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-10
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		10/28/13 10:31	10/28/13 16:05	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-2

Client Sample ID: EX10/11-SEG1-SPOILS-COMP.
Date Collected: 10/04/13 11:30
Date Received: 10/04/13 17:15

Lab Sample ID: 720-52801-20
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.62		0.25		mg/L		10/28/13 10:31	10/28/13 16:09	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-2

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-147161/1-A
Matrix: Solid
Analysis Batch: 147201

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 147161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.010		mg/L		10/28/13 10:31	10/28/13 14:40	1

Lab Sample ID: LCS 720-147161/2-A
Matrix: Solid
Analysis Batch: 147201

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 147161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.00	0.861		mg/L		86	80 - 120

Lab Sample ID: LCSD 720-147161/3-A
Matrix: Solid
Analysis Batch: 147201

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 147161

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	1.00	0.925		mg/L		93	80 - 120	7	20

Lab Sample ID: LB4 720-147094/1-C LB4
Matrix: Solid
Analysis Batch: 147201

Client Sample ID: Method Blank
Prep Type: STLC Citrate
Prep Batch: 147161

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10		mg/L		10/28/13 10:31	10/28/13 14:53	1

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-2

Metals

Leach Batch: 147094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-5	CF5-1-SPOILS-COMP.	STLC Citrate	Solid	CA WET Citrate	
720-52801-10	EX9-2-SPOILS-COMP.	STLC Citrate	Solid	CA WET Citrate	
720-52801-20	EX10/11-SEG1-SPOILS-COMP.	STLC Citrate	Solid	CA WET Citrate	
LB4 720-147094/1-C LB4	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 147161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-5	CF5-1-SPOILS-COMP.	STLC Citrate	Solid	3005A	147094
720-52801-10	EX9-2-SPOILS-COMP.	STLC Citrate	Solid	3005A	147094
720-52801-20	EX10/11-SEG1-SPOILS-COMP.	STLC Citrate	Solid	3005A	147094
LB4 720-147094/1-C LB4	Method Blank	STLC Citrate	Solid	3005A	147094
LCS 720-147161/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-147161/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-147161/1-A	Method Blank	Total Recoverable	Solid	3005A	

Analysis Batch: 147201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52801-5	CF5-1-SPOILS-COMP.	STLC Citrate	Solid	6010B	147161
720-52801-10	EX9-2-SPOILS-COMP.	STLC Citrate	Solid	6010B	147161
720-52801-20	EX10/11-SEG1-SPOILS-COMP.	STLC Citrate	Solid	6010B	147161
LB4 720-147094/1-C LB4	Method Blank	STLC Citrate	Solid	6010B	147161
LCS 720-147161/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	147161
LCSD 720-147161/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	147161
MB 720-147161/1-A	Method Blank	Total Recoverable	Solid	6010B	147161

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-2

Client Sample ID: CF5-1-SPOILS-COMP.

Lab Sample ID: 720-52801-5

Date Collected: 10/04/13 08:30

Matrix: Solid

Date Received: 10/04/13 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			147094	10/26/13 09:04	ASB	TAL PLS
STLC Citrate	Prep	3005A			147161	10/28/13 10:31	JCR	TAL PLS
STLC Citrate	Analysis	6010B		2.5	147201	10/28/13 16:00	EFH	TAL PLS

Client Sample ID: EX9-2-SPOILS-COMP.

Lab Sample ID: 720-52801-10

Date Collected: 10/04/13 08:50

Matrix: Solid

Date Received: 10/04/13 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			147094	10/26/13 09:04	ASB	TAL PLS
STLC Citrate	Prep	3005A			147161	10/28/13 10:31	JCR	TAL PLS
STLC Citrate	Analysis	6010B		2.5	147201	10/28/13 16:05	EFH	TAL PLS

Client Sample ID: EX10/11-SEG1-SPOILS-COMP.

Lab Sample ID: 720-52801-20

Date Collected: 10/04/13 11:30

Matrix: Solid

Date Received: 10/04/13 17:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			147094	10/26/13 09:04	ASB	TAL PLS
STLC Citrate	Prep	3005A			147161	10/28/13 10:31	JCR	TAL PLS
STLC Citrate	Analysis	6010B		2.5	147201	10/28/13 16:09	EFH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-2

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52801-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-52801-5	CF5-1-SPOILS-COMP.	Solid	10/04/13 08:30	10/04/13 17:15
720-52801-10	EX9-2-SPOILS-COMP.	Solid	10/04/13 08:50	10/04/13 17:15
720-52801-20	EX10/11-SEG1-SPOILS-COMP.	Solid	10/04/13 11:30	10/04/13 17:15

720-52801-2

Mullen, Joan

From: Sharma, Dimple
Sent: Thursday, October 24, 2013 12:57 PM
To: Mullen, Joan
Subject: FW: Haley & Aldrich - Former Hanson Site - Additional Analysis Request (RUSH!)

-----Original Message-----
From: Brendan J. Mulholland [mailto:brendan@albionpartners.com]
Sent: Thu 10/24/2013 11:24 AM
To: Sharma, Dimple
Cc: James Schwartz; Vincent Tilotta
Subject: Haley & Aldrich - Former Hanson Site - Additional Analysis Request (RUSH!)

Good Morning Dimple,

Haley & Aldrich is hereby requesting additional analysis for W.E.T. STLC Chromium (Cr) on a RUSH (3-Day TAT) for the following samples:

EX3-2-Spoils-Comp., submitted on 10/3/2013; EX4-2-Spoils-Comp. A, submitted on 10/3/2013; EX4-2-Spoils-Comp. B, submitted on 10/3/2013; CF5-1-Spoils-Comp., submitted on 10/4/2013; EX9-2-Spoils-Comp., submitted on 10/4/2013; EX10/11-Seg.1-Spoils-Comp., submitted on 10/4/2013; EX10/11-2-Spoils-Comp.B, submitted on 10/7/2013; EX10/11-2-Spoils-Comp.C, submitted on 10/7/2013; EX10/11-2-Spoils-Comp.E, submitted on 10/7/2013; and EX10/11-2-Spoils-Comp.F, submitted on 10/7/2013.

Please contact me if you have any questions or comments, or require additional information.

Thanks Dimple and the TAP Team!

Sincerely,

RUSH

Brendan J. Mulholland, PG,QSD
Albion Partners
410 China Basin Street
San Francisco, CA 94158
415-355-6647 direct
510-381-5584 cell
www.albionpartners.com

720-52801 Chain of Custody

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-52801-2

Login Number: 52801

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-52824-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz

Authorized for release by:
10/14/2013 4:20:52 PM

Dimple Sharma, Project Manager I
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-52824-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-52824-1

Comments
No additional comments.

Receipt
The samples were received on 10/7/2013 2:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 12.3º C.

GC/MS VOA
No analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported:
EX10/11-2-SPOILS-COMPA (720-52824-5), EX10/11-2-SPOILS-COMPB (720-52824-10), EX10/11-2-SPOILS-COMPC (720-52824-15), EX10/11-2-SPOILS-COMPD (720-52824-20), EX10/11-2-SPOILS-COMPE (720-52824-25), EX10/11-2-SPOILS-COMPF (720-52824-30).

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Client Sample ID: EX10/11-2-SPOILS-COMPA — Lab Sample ID: 720-52824-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	160		4.9		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	310		250		mg/Kg	5		8015B	Silica Gel Cleanup
Arsenic	5.6		3.7		mg/Kg	4		6010B	Total/NA
Barium	130		1.8		mg/Kg	4		6010B	Total/NA
Chromium	43		1.8		mg/Kg	4		6010B	Total/NA
Cobalt	9.9		0.73		mg/Kg	4		6010B	Total/NA
Copper	26		5.5		mg/Kg	4		6010B	Total/NA
Lead	17		1.8		mg/Kg	4		6010B	Total/NA
Nickel	66		1.8		mg/Kg	4		6010B	Total/NA
Vanadium	26		1.8		mg/Kg	4		6010B	Total/NA
Zinc	76		5.5		mg/Kg	4		6010B	Total/NA
Mercury	0.028		0.0092		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX10/11-2-SPOILS-COMPB — Lab Sample ID: 720-52824-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	150		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	300		250		mg/Kg	5		8015B	Silica Gel Cleanup
Arsenic	4.5		3.7		mg/Kg	4		6010B	Total/NA
Barium	160		1.8		mg/Kg	4		6010B	Total/NA
Chromium	51		1.8		mg/Kg	4		6010B	Total/NA
Cobalt	12		0.73		mg/Kg	4		6010B	Total/NA
Copper	33		5.5		mg/Kg	4		6010B	Total/NA
Lead	32		1.8		mg/Kg	4		6010B	Total/NA
Nickel	74		1.8		mg/Kg	4		6010B	Total/NA
Vanadium	29		1.8		mg/Kg	4		6010B	Total/NA
Zinc	60		5.5		mg/Kg	4		6010B	Total/NA
Mercury	0.027		0.0094		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX10/11-2-SPOILS-COMPC — Lab Sample ID: 720-52824-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	150		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	320		250		mg/Kg	5		8015B	Silica Gel Cleanup
Arsenic	4.8		3.8		mg/Kg	4		6010B	Total/NA
Barium	170		1.9		mg/Kg	4		6010B	Total/NA
Chromium	52		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	12		0.77		mg/Kg	4		6010B	Total/NA
Copper	32		5.8		mg/Kg	4		6010B	Total/NA
Lead	19		1.9		mg/Kg	4		6010B	Total/NA
Nickel	74		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	32		1.9		mg/Kg	4		6010B	Total/NA
Zinc	64		5.8		mg/Kg	4		6010B	Total/NA
Mercury	0.023		0.0088		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Client Sample ID: EX10/11-2-SPOILS-COMPD — Lab Sample ID: 720-52824-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	250		4.9		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	450		250		mg/Kg	5		8015B	Silica Gel Cleanup
Arsenic	4.7		3.4		mg/Kg	4		6010B	Total/NA
Barium	160		1.7		mg/Kg	4		6010B	Total/NA
Chromium	45		1.7		mg/Kg	4		6010B	Total/NA
Cobalt	10		0.68		mg/Kg	4		6010B	Total/NA
Copper	29		5.1		mg/Kg	4		6010B	Total/NA
Lead	15		1.7		mg/Kg	4		6010B	Total/NA
Nickel	63		1.7		mg/Kg	4		6010B	Total/NA
Vanadium	33		1.7		mg/Kg	4		6010B	Total/NA
Zinc	59		5.1		mg/Kg	4		6010B	Total/NA
Mercury	0.024		0.0092		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX10/11-2-SPOILS-COMPE — Lab Sample ID: 720-52824-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	270		4.9		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	480		250		mg/Kg	5		8015B	Silica Gel Cleanup
Arsenic	5.2		3.7		mg/Kg	4		6010B	Total/NA
Barium	160		1.9		mg/Kg	4		6010B	Total/NA
Chromium	54		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	11		0.75		mg/Kg	4		6010B	Total/NA
Copper	30		5.6		mg/Kg	4		6010B	Total/NA
Lead	91		1.9		mg/Kg	4		6010B	Total/NA
Nickel	74		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	34		1.9		mg/Kg	4		6010B	Total/NA
Zinc	64		5.6		mg/Kg	4		6010B	Total/NA
Mercury	0.036		0.0097		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX10/11-2-SPOILS-COMPF — Lab Sample ID: 720-52824-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	150		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	290		250		mg/Kg	5		8015B	Silica Gel Cleanup
Arsenic	5.5		3.7		mg/Kg	4		6010B	Total/NA
Barium	190		1.9		mg/Kg	4		6010B	Total/NA
Chromium	52		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	12		0.74		mg/Kg	4		6010B	Total/NA
Copper	32		5.6		mg/Kg	4		6010B	Total/NA
Lead	20		1.9		mg/Kg	4		6010B	Total/NA
Nickel	75		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	35		1.9		mg/Kg	4		6010B	Total/NA
Zinc	72		5.6		mg/Kg	4		6010B	Total/NA
Mercury	0.038		0.0092		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Client Sample ID: EX10/11-2-SPOILS-COMPA — **Lab Sample ID: 720-52824-5**
Date Collected: 10/07/13 09:35 — **Matrix: Solid**
Date Received: 10/07/13 14:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Acetone	ND		49		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Benzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Dichlorobromomethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Bromobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Chlorobromomethane	ND		20		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Bromoform	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Bromomethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
2-Butanone (MEK)	ND		49		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
n-Butylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
sec-Butylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
tert-Butylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Carbon disulfide	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Carbon tetrachloride	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Chlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Chloroethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Chloroform	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Chloromethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
2-Chlorotoluene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
4-Chlorotoluene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Chlorodibromomethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,3-Dichloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,1-Dichloropropene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Ethylene Dibromide	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Dibromomethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,1-Dichloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,2-Dichloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,1-Dichloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,2-Dichloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Ethylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Hexachlorobutadiene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
2-Hexanone	ND		49		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Isopropylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
4-Isopropyltoluene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Methylene Chloride	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Naphthalene	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
N-Propylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Styrene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Client Sample ID: EX10/11-2-SPOILS-COMPA
Date Collected: 10/07/13 09:35
Date Received: 10/07/13 14:05

Lab Sample ID: 720-52824-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Tetrachloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Toluene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Trichloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Trichlorofluoromethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Vinyl acetate	ND		49		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Vinyl chloride	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Xylenes, Total	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
2,2-Dichloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:21	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		10/10/13 10:00	10/10/13 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*45 - 131*	*10/10/13 10:00*	*10/10/13 16:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*	*10/10/13 10:00*	*10/10/13 16:21*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*	*10/10/13 10:00*	*10/10/13 16:21*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**160**		4.9		mg/Kg		10/09/13 11:07	10/11/13 15:54	5
Motor Oil Range Organics [C24-C36]	**310**		250		mg/Kg		10/09/13 11:07	10/11/13 15:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/09/13 11:07*	*10/11/13 15:54*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*10/09/13 11:07*	*10/11/13 15:54*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8		mg/Kg		10/09/13 19:17	10/10/13 21:31	4
Arsenic	**5.6**		3.7		mg/Kg		10/09/13 19:17	10/10/13 21:31	4
Barium	**130**		1.8		mg/Kg		10/09/13 19:17	10/10/13 21:31	4
Beryllium	ND		0.37		mg/Kg		10/09/13 19:17	10/10/13 21:31	4
Cadmium	ND		0.46		mg/Kg		10/09/13 19:17	10/10/13 21:31	4
Chromium	**43**		1.8		mg/Kg		10/09/13 19:17	10/10/13 21:31	4
Cobalt	**9.9**		0.73		mg/Kg		10/09/13 19:17	10/10/13 21:31	4
Copper	**26**		5.5		mg/Kg		10/09/13 19:17	10/10/13 21:31	4
Lead	**17**		1.8		mg/Kg		10/09/13 19:17	10/10/13 21:31	4
Molybdenum	ND		1.8		mg/Kg		10/09/13 19:17	10/10/13 21:31	4
Nickel	**66**		1.8		mg/Kg		10/09/13 19:17	10/10/13 21:31	4
Selenium	ND		3.7		mg/Kg		10/09/13 19:17	10/10/13 21:31	4
Silver	ND		0.92		mg/Kg		10/09/13 19:17	10/10/13 21:31	4
Thallium	ND		1.8		mg/Kg		10/09/13 19:17	10/10/13 21:31	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Client Sample ID: EX10/11-2-SPOILS-COMPA
Date Collected: 10/07/13 09:35
Date Received: 10/07/13 14:05

Lab Sample ID: 720-52824-5
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	26		1.8		mg/Kg		10/09/13 19:17	10/10/13 21:31	4
Zinc	76		5.5		mg/Kg		10/09/13 19:17	10/10/13 21:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.0092		mg/Kg		10/10/13 18:04	10/11/13 14:17	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Client Sample ID: EX10/11-2-SPOILS-COMPB
Date Collected: 10/07/13 09:55
Date Received: 10/07/13 14:05

Lab Sample ID: 720-52824-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Acetone	ND		49		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Benzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Dichlorobromomethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Bromobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Chlorobromomethane	ND		19		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Bromoform	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Bromomethane	ND		9.7		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
2-Butanone (MEK)	ND		49		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
n-Butylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
sec-Butylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
tert-Butylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Carbon disulfide	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Carbon tetrachloride	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Chlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Chloroethane	ND		9.7		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Chloroform	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Chloromethane	ND		9.7		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
2-Chlorotoluene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
4-Chlorotoluene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Chlorodibromomethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,3-Dichloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,1-Dichloropropene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Ethylene Dibromide	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Dibromomethane	ND		9.7		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,1-Dichloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,2-Dichloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,1-Dichloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,2-Dichloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Ethylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Hexachlorobutadiene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
2-Hexanone	ND		49		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Isopropylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
4-Isopropyltoluene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Methylene Chloride	ND		9.7		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Naphthalene	ND		9.7		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
N-Propylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Styrene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Client Sample ID: EX10/11-2-SPOILS-COMPB
Date Collected: 10/07/13 09:55
Date Received: 10/07/13 14:05

Lab Sample ID: 720-52824-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Tetrachloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Toluene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Trichloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Trichlorofluoromethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Vinyl acetate	ND		49		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Vinyl chloride	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Xylenes, Total	ND		9.7		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
2,2-Dichloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 16:47	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		10/10/13 10:00	10/10/13 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*45 - 131*	*10/10/13 10:00*	*10/10/13 16:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*	*10/10/13 10:00*	*10/10/13 16:47*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*10/10/13 10:00*	*10/10/13 16:47*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**150**		5.0		mg/Kg		10/09/13 11:07	10/11/13 16:24	5
Motor Oil Range Organics [C24-C36]	**300**		250		mg/Kg		10/09/13 11:07	10/11/13 16:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/09/13 11:07*	*10/11/13 16:24*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*10/09/13 11:07*	*10/11/13 16:24*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:52	4
Arsenic	**4.5**		3.7		mg/Kg		10/09/13 19:17	10/10/13 20:52	4
Barium	**160**		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:52	4
Beryllium	ND		0.37		mg/Kg		10/09/13 19:17	10/10/13 20:52	4
Cadmium	ND		0.46		mg/Kg		10/09/13 19:17	10/10/13 20:52	4
Chromium	**51**		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:52	4
Cobalt	**12**		0.73		mg/Kg		10/09/13 19:17	10/10/13 20:52	4
Copper	**33**		5.5		mg/Kg		10/09/13 19:17	10/10/13 20:52	4
Lead	**32**		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:52	4
Molybdenum	ND		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:52	4
Nickel	**74**		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:52	4
Selenium	ND		3.7		mg/Kg		10/09/13 19:17	10/10/13 20:52	4
Silver	ND		0.92		mg/Kg		10/09/13 19:17	10/10/13 20:52	4
Thallium	ND		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:52	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Client Sample ID: EX10/11-2-SPOILS-COMPB
Date Collected: 10/07/13 09:55
Date Received: 10/07/13 14:05

Lab Sample ID: 720-52824-10
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	29		1.8		mg/Kg		10/09/13 19:17	10/10/13 20:52	4
Zinc	60		5.5		mg/Kg		10/09/13 19:17	10/10/13 20:52	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.0094		mg/Kg		10/10/13 18:04	10/11/13 14:19	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Client Sample ID: EX10/11-2-SPOILS-COMPC — **Lab Sample ID: 720-52824-15**
Date Collected: 10/07/13 10:15 — **Matrix: Solid**
Date Received: 10/07/13 14:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Acetone	ND		50		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Benzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Dichlorobromomethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Bromobenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Chlorobromomethane	ND		20		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Bromoform	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Bromomethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
2-Butanone (MEK)	ND		50		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
n-Butylbenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
sec-Butylbenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
tert-Butylbenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Carbon disulfide	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Carbon tetrachloride	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Chlorobenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Chloroethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Chloroform	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Chloromethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
2-Chlorotoluene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
4-Chlorotoluene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Chlorodibromomethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,3-Dichloropropane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,1-Dichloropropene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Ethylene Dibromide	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Dibromomethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,1-Dichloroethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,2-Dichloroethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,1-Dichloroethene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,2-Dichloropropane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Ethylbenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Hexachlorobutadiene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
2-Hexanone	ND		50		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Isopropylbenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
4-Isopropyltoluene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Methylene Chloride	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Naphthalene	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
N-Propylbenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Styrene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1

Client Sample ID: EX10/11-2-SPOILS-COMPC
Date Collected: 10/07/13 10:15
Date Received: 10/07/13 14:05

Lab Sample ID: 720-52824-15
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Tetrachloroethene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Toluene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Trichloroethene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Trichlorofluoromethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Vinyl acetate	ND		50		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Vinyl chloride	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Xylenes, Total	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
2,2-Dichloropropane	ND		5.0		ug/Kg		10/10/13 10:00	10/10/13 17:13	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		10/10/13 10:00	10/10/13 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*91*		*45 - 131*	*10/10/13 10:00*	*10/10/13 17:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*	*10/10/13 10:00*	*10/10/13 17:13*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*	*10/10/13 10:00*	*10/10/13 17:13*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**150**		5.0		mg/Kg		10/09/13 11:07	10/11/13 16:53	5
Motor Oil Range Organics [C24-C36]	**320**		250		mg/Kg		10/09/13 11:07	10/11/13 16:53	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/09/13 11:07*	*10/11/13 16:53*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*10/09/13 11:07*	*10/11/13 16:53*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:56	4
Arsenic	**4.8**		3.8		mg/Kg		10/09/13 19:17	10/10/13 20:56	4
Barium	**170**		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:56	4
Beryllium	ND		0.38		mg/Kg		10/09/13 19:17	10/10/13 20:56	4
Cadmium	ND		0.48		mg/Kg		10/09/13 19:17	10/10/13 20:56	4
Chromium	**52**		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:56	4
Cobalt	**12**		0.77		mg/Kg		10/09/13 19:17	10/10/13 20:56	4
Copper	**32**		5.8		mg/Kg		10/09/13 19:17	10/10/13 20:56	4
Lead	**19**		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:56	4
Molybdenum	ND		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:56	4
Nickel	**74**		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:56	4
Selenium	ND		3.8		mg/Kg		10/09/13 19:17	10/10/13 20:56	4
Silver	ND		0.96		mg/Kg		10/09/13 19:17	10/10/13 20:56	4
Thallium	ND		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:56	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Client Sample ID: EX10/11-2-SPOILS-COMPC
Date Collected: 10/07/13 10:15
Date Received: 10/07/13 14:05

Lab Sample ID: 720-52824-15
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	32		1.9		mg/Kg		10/09/13 19:17	10/10/13 20:56	4
Zinc	64		5.8		mg/Kg		10/09/13 19:17	10/10/13 20:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.0088		mg/Kg		10/10/13 18:04	10/11/13 14:21	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Client Sample ID: EX10/11-2-SPOILS-COMPD — **Lab Sample ID: 720-52824-20**
Date Collected: 10/07/13 10:35 — **Matrix: Solid**
Date Received: 10/07/13 14:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Acetone	ND		47		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Benzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Dichlorobromomethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Bromobenzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Chlorobromomethane	ND		19		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Bromoform	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Bromomethane	ND		9.4		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
2-Butanone (MEK)	ND		47		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
n-Butylbenzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
sec-Butylbenzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
tert-Butylbenzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Carbon disulfide	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Carbon tetrachloride	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Chlorobenzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Chloroethane	ND		9.4		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Chloroform	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Chloromethane	ND		9.4		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
2-Chlorotoluene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
4-Chlorotoluene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Chlorodibromomethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,2-Dichlorobenzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,3-Dichlorobenzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,4-Dichlorobenzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,3-Dichloropropane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,1-Dichloropropene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,2-Dibromo-3-Chloropropane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Ethylene Dibromide	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Dibromomethane	ND		9.4		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Dichlorodifluoromethane	ND		9.4		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,1-Dichloroethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,2-Dichloroethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,1-Dichloroethene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
cis-1,2-Dichloroethene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
trans-1,2-Dichloroethene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,2-Dichloropropane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
cis-1,3-Dichloropropene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
trans-1,3-Dichloropropene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Ethylbenzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Hexachlorobutadiene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
2-Hexanone	ND		47		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Isopropylbenzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
4-Isopropyltoluene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Methylene Chloride	ND		9.4		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
4-Methyl-2-pentanone (MIBK)	ND		47		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Naphthalene	ND		9.4		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
N-Propylbenzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Styrene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,1,1,2-Tetrachloroethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Client Sample ID: EX10/11-2-SPOILS-COMPD — **Lab Sample ID: 720-52824-20**
Date Collected: 10/07/13 10:35 — **Matrix: Solid**
Date Received: 10/07/13 14:05

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Tetrachloroethene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Toluene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,2,3-Trichlorobenzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,2,4-Trichlorobenzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,1,1-Trichloroethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,1,2-Trichloroethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Trichloroethene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Trichlorofluoromethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,2,3-Trichloropropane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,2,4-Trimethylbenzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
1,3,5-Trimethylbenzene	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Vinyl acetate	ND		47		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Vinyl chloride	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Xylenes, Total	ND		9.4		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
2,2-Dichloropropane	ND		4.7		ug/Kg		10/10/13 10:00	10/10/13 17:39	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		10/10/13 10:00	10/10/13 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*45 - 131*	*10/10/13 10:00*	*10/10/13 17:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 140*	*10/10/13 10:00*	*10/10/13 17:39*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*10/10/13 10:00*	*10/10/13 17:39*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**250**		4.9		mg/Kg		10/09/13 11:07	10/11/13 10:31	5
Motor Oil Range Organics [C24-C36]	**450**		250		mg/Kg		10/09/13 11:07	10/11/13 10:31	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/09/13 11:07*	*10/11/13 10:31*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*10/09/13 11:07*	*10/11/13 10:31*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7		mg/Kg		10/09/13 19:17	10/10/13 21:01	4
Arsenic	**4.7**		3.4		mg/Kg		10/09/13 19:17	10/10/13 21:01	4
Barium	**160**		1.7		mg/Kg		10/09/13 19:17	10/10/13 21:01	4
Beryllium	ND		0.34		mg/Kg		10/09/13 19:17	10/10/13 21:01	4
Cadmium	ND		0.43		mg/Kg		10/09/13 19:17	10/10/13 21:01	4
Chromium	**45**		1.7		mg/Kg		10/09/13 19:17	10/10/13 21:01	4
Cobalt	**10**		0.68		mg/Kg		10/09/13 19:17	10/10/13 21:01	4
Copper	**29**		5.1		mg/Kg		10/09/13 19:17	10/10/13 21:01	4
Lead	**15**		1.7		mg/Kg		10/09/13 19:17	10/10/13 21:01	4
Molybdenum	ND		1.7		mg/Kg		10/09/13 19:17	10/10/13 21:01	4
Nickel	**63**		1.7		mg/Kg		10/09/13 19:17	10/10/13 21:01	4
Selenium	ND		3.4		mg/Kg		10/09/13 19:17	10/10/13 21:01	4
Silver	ND		0.85		mg/Kg		10/09/13 19:17	10/10/13 21:01	4
Thallium	ND		1.7		mg/Kg		10/09/13 19:17	10/10/13 21:01	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Client Sample ID: EX10/11-2-SPOILS-COMPD — **Lab Sample ID: 720-52824-20**

Date Collected: 10/07/13 10:35 — **Matrix: Solid**

Date Received: 10/07/13 14:05

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	33		1.7		mg/Kg		10/09/13 19:17	10/10/13 21:01	4
Zinc	59		5.1		mg/Kg		10/09/13 19:17	10/10/13 21:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.0092		mg/Kg		10/10/13 18:04	10/11/13 14:28	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Client Sample ID: EX10/11-2-SPOILS-COMPE — **Lab Sample ID: 720-52824-25**

Date Collected: 10/07/13 10:55 — **Matrix: Solid**

Date Received: 10/07/13 14:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Acetone	ND		49		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Benzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Dichlorobromomethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Bromobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Chlorobromomethane	ND		20		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Bromoform	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Bromomethane	ND		9.8		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
2-Butanone (MEK)	ND		49		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
n-Butylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
sec-Butylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
tert-Butylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Carbon disulfide	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Carbon tetrachloride	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Chlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Chloroethane	ND		9.8		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Chloroform	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Chloromethane	ND		9.8		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
2-Chlorotoluene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
4-Chlorotoluene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Chlorodibromomethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,3-Dichloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,1-Dichloropropene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Ethylene Dibromide	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Dibromomethane	ND		9.8		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Dichlorodifluoromethane	ND		9.8		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,1-Dichloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,2-Dichloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,1-Dichloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,2-Dichloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Ethylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Hexachlorobutadiene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
2-Hexanone	ND		49		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Isopropylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
4-Isopropyltoluene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Methylene Chloride	ND		9.8		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Naphthalene	ND		9.8		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
N-Propylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Styrene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Client Sample ID: EX10/11-2-SPOILS-COMPE — **Lab Sample ID: 720-52824-25**
Date Collected: 10/07/13 10:55 — **Matrix: Solid**
Date Received: 10/07/13 14:05

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Tetrachloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Toluene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Trichloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Trichlorofluoromethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Vinyl acetate	ND		49		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Vinyl chloride	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Xylenes, Total	ND		9.8		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
2,2-Dichloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:05	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		10/10/13 10:00	10/10/13 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*45 - 131*	*10/10/13 10:00*	*10/10/13 18:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*	*10/10/13 10:00*	*10/10/13 18:05*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*	*10/10/13 10:00*	*10/10/13 18:05*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**270**		4.9		mg/Kg		10/09/13 11:07	10/11/13 11:00	5
Motor Oil Range Organics [C24-C36]	**480**		250		mg/Kg		10/09/13 11:07	10/11/13 11:00	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/09/13 11:07*	*10/11/13 11:00*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*10/09/13 11:07*	*10/11/13 11:00*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		10/09/13 19:17	10/10/13 21:05	4
Arsenic	**5.2**		3.7		mg/Kg		10/09/13 19:17	10/10/13 21:05	4
Barium	**160**		1.9		mg/Kg		10/09/13 19:17	10/10/13 21:05	4
Beryllium	ND		0.37		mg/Kg		10/09/13 19:17	10/10/13 21:05	4
Cadmium	ND		0.47		mg/Kg		10/09/13 19:17	10/10/13 21:05	4
Chromium	**54**		1.9		mg/Kg		10/09/13 19:17	10/10/13 21:05	4
Cobalt	**11**		0.75		mg/Kg		10/09/13 19:17	10/10/13 21:05	4
Copper	**30**		5.6		mg/Kg		10/09/13 19:17	10/10/13 21:05	4
Lead	**91**		1.9		mg/Kg		10/09/13 19:17	10/10/13 21:05	4
Molybdenum	ND		1.9		mg/Kg		10/09/13 19:17	10/10/13 21:05	4
Nickel	**74**		1.9		mg/Kg		10/09/13 19:17	10/10/13 21:05	4
Selenium	ND		3.7		mg/Kg		10/09/13 19:17	10/10/13 21:05	4
Silver	ND		0.93		mg/Kg		10/09/13 19:17	10/10/13 21:05	4
Thallium	ND		1.9		mg/Kg		10/09/13 19:17	10/10/13 21:05	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Client Sample ID: EX10/11-2-SPOILS-COMPE
Date Collected: 10/07/13 10:55
Date Received: 10/07/13 14:05

Lab Sample ID: 720-52824-25
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	34		1.9		mg/Kg		10/09/13 19:17	10/10/13 21:05	4
Zinc	64		5.6		mg/Kg		10/09/13 19:17	10/10/13 21:05	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.0097		mg/Kg		10/10/13 18:04	10/11/13 14:31	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Client Sample ID: EX10/11-2-SPOILS-COMPF — **Lab Sample ID: 720-52824-30**
Date Collected: 10/07/13 11:15 — **Matrix: Solid**
Date Received: 10/07/13 14:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Acetone	ND		49		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Benzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Dichlorobromomethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Bromobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Chlorobromomethane	ND		20		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Bromoform	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Bromomethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
2-Butanone (MEK)	ND		49		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
n-Butylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
sec-Butylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
tert-Butylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Carbon disulfide	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Carbon tetrachloride	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Chlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Chloroethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Chloroform	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Chloromethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
2-Chlorotoluene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
4-Chlorotoluene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Chlorodibromomethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,2-Dichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,3-Dichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,4-Dichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,3-Dichloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,1-Dichloropropene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Ethylene Dibromide	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Dibromomethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,1-Dichloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,2-Dichloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,1-Dichloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,2-Dichloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Ethylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Hexachlorobutadiene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
2-Hexanone	ND		49		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Isopropylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
4-Isopropyltoluene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Methylene Chloride	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Naphthalene	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
N-Propylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Styrene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1

Client Sample ID: EX10/11-2-SPOILS-COMPF
Date Collected: 10/07/13 11:15
Date Received: 10/07/13 14:05

Lab Sample ID: 720-52824-30
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Tetrachloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Toluene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Trichloroethene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Trichlorofluoromethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,2,3-Trichloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,2,4-Trimethylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
1,3,5-Trimethylbenzene	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Vinyl acetate	ND		49		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Vinyl chloride	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Xylenes, Total	ND		9.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
2,2-Dichloropropane	ND		4.9		ug/Kg		10/10/13 10:00	10/10/13 18:31	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		10/10/13 10:00	10/10/13 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*45 - 131*	*10/10/13 10:00*	*10/10/13 18:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*	*10/10/13 10:00*	*10/10/13 18:31*	*1*
Toluene-d8 (Surr)	*99*		*58 - 140*	*10/10/13 10:00*	*10/10/13 18:31*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**150**		5.0		mg/Kg		10/09/13 11:07	10/11/13 12:28	5
Motor Oil Range Organics [C24-C36]	**290**		250		mg/Kg		10/09/13 11:07	10/11/13 12:28	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/09/13 11:07*	*10/11/13 12:28*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*10/09/13 11:07*	*10/11/13 12:28*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		10/09/13 19:17	10/10/13 21:09	4
Arsenic	**5.5**		3.7		mg/Kg		10/09/13 19:17	10/10/13 21:09	4
Barium	**190**		1.9		mg/Kg		10/09/13 19:17	10/10/13 21:09	4
Beryllium	ND		0.37		mg/Kg		10/09/13 19:17	10/10/13 21:09	4
Cadmium	ND		0.46		mg/Kg		10/09/13 19:17	10/10/13 21:09	4
Chromium	**52**		1.9		mg/Kg		10/09/13 19:17	10/10/13 21:09	4
Cobalt	**12**		0.74		mg/Kg		10/09/13 19:17	10/10/13 21:09	4
Copper	**32**		5.6		mg/Kg		10/09/13 19:17	10/10/13 21:09	4
Lead	**20**		1.9		mg/Kg		10/09/13 19:17	10/10/13 21:09	4
Molybdenum	ND		1.9		mg/Kg		10/09/13 19:17	10/10/13 21:09	4
Nickel	**75**		1.9		mg/Kg		10/09/13 19:17	10/10/13 21:09	4
Selenium	ND		3.7		mg/Kg		10/09/13 19:17	10/10/13 21:09	4
Silver	ND		0.93		mg/Kg		10/09/13 19:17	10/10/13 21:09	4
Thallium	ND		1.9		mg/Kg		10/09/13 19:17	10/10/13 21:09	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Client Sample ID: EX10/11-2-SPOILS-COMPF
Date Collected: 10/07/13 11:15
Date Received: 10/07/13 14:05

Lab Sample ID: 720-52824-30
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	35		1.9		mg/Kg		10/09/13 19:17	10/10/13 21:09	4
Zinc	72		5.6		mg/Kg		10/09/13 19:17	10/10/13 21:09	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.0092		mg/Kg		10/10/13 18:04	10/11/13 14:33	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-145910/4
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			10/10/13 08:41	1
Acetone	ND		50		ug/Kg			10/10/13 08:41	1
Benzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Dichlorobromomethane	ND		5.0		ug/Kg			10/10/13 08:41	1
Bromobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Chlorobromomethane	ND		20		ug/Kg			10/10/13 08:41	1
Bromoform	ND		5.0		ug/Kg			10/10/13 08:41	1
Bromomethane	ND		10		ug/Kg			10/10/13 08:41	1
2-Butanone (MEK)	ND		50		ug/Kg			10/10/13 08:41	1
n-Butylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
sec-Butylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
tert-Butylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Carbon disulfide	ND		5.0		ug/Kg			10/10/13 08:41	1
Carbon tetrachloride	ND		5.0		ug/Kg			10/10/13 08:41	1
Chlorobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Chloroethane	ND		10		ug/Kg			10/10/13 08:41	1
Chloroform	ND		5.0		ug/Kg			10/10/13 08:41	1
Chloromethane	ND		10		ug/Kg			10/10/13 08:41	1
2-Chlorotoluene	ND		5.0		ug/Kg			10/10/13 08:41	1
4-Chlorotoluene	ND		5.0		ug/Kg			10/10/13 08:41	1
Chlorodibromomethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,3-Dichloropropane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1-Dichloropropene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			10/10/13 08:41	1
Ethylene Dibromide	ND		5.0		ug/Kg			10/10/13 08:41	1
Dibromomethane	ND		10		ug/Kg			10/10/13 08:41	1
Dichlorodifluoromethane	ND		10		ug/Kg			10/10/13 08:41	1
1,1-Dichloroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2-Dichloroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1-Dichloroethene	ND		5.0		ug/Kg			10/10/13 08:41	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			10/10/13 08:41	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2-Dichloropropane	ND		5.0		ug/Kg			10/10/13 08:41	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			10/10/13 08:41	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			10/10/13 08:41	1
Ethylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Hexachlorobutadiene	ND		5.0		ug/Kg			10/10/13 08:41	1
2-Hexanone	ND		50		ug/Kg			10/10/13 08:41	1
Isopropylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
4-Isopropyltoluene	ND		5.0		ug/Kg			10/10/13 08:41	1
Methylene Chloride	ND		10		ug/Kg			10/10/13 08:41	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			10/10/13 08:41	1
Naphthalene	ND		10		ug/Kg			10/10/13 08:41	1
N-Propylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Styrene	ND		5.0		ug/Kg			10/10/13 08:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-145910/4
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
Tetrachloroethene	ND		5.0		ug/Kg			10/10/13 08:41	1
Toluene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
Trichloroethene	ND		5.0		ug/Kg			10/10/13 08:41	1
Trichlorofluoromethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			10/10/13 08:41	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			10/10/13 08:41	1
Vinyl acetate	ND		50		ug/Kg			10/10/13 08:41	1
Vinyl chloride	ND		5.0		ug/Kg			10/10/13 08:41	1
Xylenes, Total	ND		10		ug/Kg			10/10/13 08:41	1
2,2-Dichloropropane	ND		5.0		ug/Kg			10/10/13 08:41	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			10/10/13 08:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*45 - 131*		*10/10/13 08:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*		*10/10/13 08:41*	*1*
Toluene-d8 (Surr)	*101*		*58 - 140*		*10/10/13 08:41*	*1*

Lab Sample ID: LCS 720-145910/10
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	49.0		ug/Kg		98	70 - 144
Acetone	250	212		ug/Kg		85	30 - 162
Benzene	50.0	47.9		ug/Kg		96	70 - 130
Dichlorobromomethane	50.0	50.4		ug/Kg		101	70 - 131
Bromobenzene	50.0	51.7		ug/Kg		103	70 - 130
Chlorobromomethane	50.0	54.6		ug/Kg		109	70 - 130
Bromoform	50.0	60.6		ug/Kg		121	59 - 158
Bromomethane	50.0	46.9		ug/Kg		94	59 - 132
2-Butanone (MEK)	250	211		ug/Kg		84	53 - 124
n-Butylbenzene	50.0	48.5		ug/Kg		97	70 - 142
sec-Butylbenzene	50.0	48.1		ug/Kg		96	70 - 136
tert-Butylbenzene	50.0	49.6		ug/Kg		99	70 - 130
Carbon disulfide	50.0	48.0		ug/Kg		96	60 - 140
Carbon tetrachloride	50.0	53.3		ug/Kg		107	70 - 138
Chlorobenzene	50.0	52.5		ug/Kg		105	70 - 130
Chloroethane	50.0	41.5		ug/Kg		83	65 - 130
Chloroform	50.0	50.1		ug/Kg		100	77 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-145910/10
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	35.1		ug/Kg		70	55 - 140
2-Chlorotoluene	50.0	47.2		ug/Kg		94	70 - 138
4-Chlorotoluene	50.0	46.5		ug/Kg		93	70 - 136
Chlorodibromomethane	50.0	56.2		ug/Kg		112	70 - 146
1,2-Dichlorobenzene	50.0	54.0		ug/Kg		108	70 - 130
1,3-Dichlorobenzene	50.0	54.1		ug/Kg		108	70 - 131
1,4-Dichlorobenzene	50.0	54.7		ug/Kg		109	70 - 130
1,3-Dichloropropane	50.0	51.2		ug/Kg		102	70 - 140
1,1-Dichloropropene	50.0	52.2		ug/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	57.1		ug/Kg		114	60 - 145
Ethylene Dibromide	50.0	56.1		ug/Kg		112	70 - 140
Dibromomethane	50.0	51.6		ug/Kg		103	70 - 139
Dichlorodifluoromethane	50.0	44.8		ug/Kg		90	37 - 158
1,1-Dichloroethane	50.0	46.7		ug/Kg		93	70 - 130
1,2-Dichloroethane	50.0	47.5		ug/Kg		95	70 - 130
1,1-Dichloroethene	50.0	51.7		ug/Kg		103	76 - 122
cis-1,2-Dichloroethene	50.0	46.4		ug/Kg		93	70 - 138
trans-1,2-Dichloroethene	50.0	52.7		ug/Kg		105	67 - 130
1,2-Dichloropropane	50.0	48.9		ug/Kg		98	73 - 127
cis-1,3-Dichloropropene	50.0	52.2		ug/Kg		104	68 - 147
trans-1,3-Dichloropropene	50.0	51.6		ug/Kg		103	70 - 136
Ethylbenzene	50.0	48.7		ug/Kg		97	80 - 137
Hexachlorobutadiene	50.0	58.7		ug/Kg		117	70 - 132
2-Hexanone	250	178		ug/Kg		71	44 - 133
Isopropylbenzene	50.0	51.7		ug/Kg		103	88 - 128
4-Isopropyltoluene	50.0	49.9		ug/Kg		100	70 - 133
Methylene Chloride	50.0	50.0		ug/Kg		100	70 - 134
4-Methyl-2-pentanone (MIBK)	250	184		ug/Kg		74	60 - 160
Naphthalene	50.0	53.6		ug/Kg		107	60 - 147
N-Propylbenzene	50.0	47.7		ug/Kg		95	70 - 130
Styrene	50.0	50.0		ug/Kg		100	70 - 130
1,1,1,2-Tetrachloroethane	50.0	54.3		ug/Kg		109	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.0		ug/Kg		98	70 - 146
Tetrachloroethene	50.0	58.5		ug/Kg		117	70 - 132
Toluene	50.0	48.7		ug/Kg		97	80 - 128
1,2,3-Trichlorobenzene	50.0	58.3		ug/Kg		117	60 - 140
1,2,4-Trichlorobenzene	50.0	58.6		ug/Kg		117	60 - 140
1,1,1-Trichloroethane	50.0	50.8		ug/Kg		102	70 - 130
1,1,2-Trichloroethane	50.0	54.0		ug/Kg		108	70 - 130
Trichloroethene	50.0	55.8		ug/Kg		112	70 - 133
Trichlorofluoromethane	50.0	49.6		ug/Kg		99	60 - 140
1,2,3-Trichloropropane	50.0	50.6		ug/Kg		101	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.5		ug/Kg		117	60 - 140
1,2,4-Trimethylbenzene	50.0	49.7		ug/Kg		99	70 - 130
1,3,5-Trimethylbenzene	50.0	48.7		ug/Kg		97	70 - 131
Vinyl acetate	50.0	ND		ug/Kg		99	38 - 176
Vinyl chloride	50.0	40.5		ug/Kg		81	58 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-145910/10
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	100	97.6		ug/Kg		98	70 - 146
o-Xylene	50.0	49.2		ug/Kg		98	70 - 140
2,2-Dichloropropane	50.0	51.0		ug/Kg		102	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCS 720-145910/7
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1090		ug/Kg		109	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCSD 720-145910/11
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	47.1		ug/Kg		94	70 - 144	4	20
Acetone	250	185		ug/Kg		74	30 - 162	13	30
Benzene	50.0	48.3		ug/Kg		97	70 - 130	1	20
Dichlorobromomethane	50.0	48.9		ug/Kg		98	70 - 131	3	20
Bromobenzene	50.0	51.7		ug/Kg		103	70 - 130	0	20
Chlorobromomethane	50.0	53.7		ug/Kg		107	70 - 130	2	20
Bromoform	50.0	56.5		ug/Kg		113	59 - 158	7	20
Bromomethane	50.0	48.7		ug/Kg		97	59 - 132	4	20
2-Butanone (MEK)	250	205		ug/Kg		82	53 - 124	3	20
n-Butylbenzene	50.0	48.6		ug/Kg		97	70 - 142	0	20
sec-Butylbenzene	50.0	49.1		ug/Kg		98	70 - 136	2	20
tert-Butylbenzene	50.0	50.5		ug/Kg		101	70 - 130	2	20
Carbon disulfide	50.0	49.1		ug/Kg		98	60 - 140	2	20
Carbon tetrachloride	50.0	54.4		ug/Kg		109	70 - 138	2	20
Chlorobenzene	50.0	53.0		ug/Kg		106	70 - 130	1	20
Chloroethane	50.0	43.0		ug/Kg		86	65 - 130	4	20
Chloroform	50.0	50.3		ug/Kg		101	77 - 127	0	20
Chloromethane	50.0	35.4		ug/Kg		71	55 - 140	1	20
2-Chlorotoluene	50.0	47.7		ug/Kg		95	70 - 138	1	20
4-Chlorotoluene	50.0	46.5		ug/Kg		93	70 - 136	0	20
Chlorodibromomethane	50.0	54.2		ug/Kg		108	70 - 146	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-145910/11
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	52.1		ug/Kg		104	70 - 130	3	20
1,3-Dichlorobenzene	50.0	53.7		ug/Kg		107	70 - 131	1	20
1,4-Dichlorobenzene	50.0	53.1		ug/Kg		106	70 - 130	3	20
1,3-Dichloropropane	50.0	49.8		ug/Kg		100	70 - 140	3	20
1,1-Dichloropropene	50.0	53.2		ug/Kg		106	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	48.9		ug/Kg		98	60 - 145	15	20
Ethylene Dibromide	50.0	52.9		ug/Kg		106	70 - 140	6	20
Dibromomethane	50.0	49.0		ug/Kg		98	70 - 139	5	20
Dichlorodifluoromethane	50.0	45.9		ug/Kg		92	37 - 158	2	20
1,1-Dichloroethane	50.0	47.5		ug/Kg		95	70 - 130	2	20
1,2-Dichloroethane	50.0	46.1		ug/Kg		92	70 - 130	3	20
1,1-Dichloroethene	50.0	53.7		ug/Kg		107	76 - 122	4	20
cis-1,2-Dichloroethene	50.0	46.7		ug/Kg		93	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	53.3		ug/Kg		107	67 - 130	1	20
1,2-Dichloropropane	50.0	48.3		ug/Kg		97	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	51.8		ug/Kg		104	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	49.5		ug/Kg		99	70 - 136	4	20
Ethylbenzene	50.0	49.1		ug/Kg		98	80 - 137	1	20
Hexachlorobutadiene	50.0	57.5		ug/Kg		115	70 - 132	2	20
2-Hexanone	250	159		ug/Kg		64	44 - 133	11	20
Isopropylbenzene	50.0	53.0		ug/Kg		106	88 - 128	3	20
4-Isopropyltoluene	50.0	50.8		ug/Kg		102	70 - 133	2	20
Methylene Chloride	50.0	50.3		ug/Kg		101	70 - 134	1	20
4-Methyl-2-pentanone (MIBK)	250	166		ug/Kg		67	60 - 160	10	20
Naphthalene	50.0	48.5		ug/Kg		97	60 - 147	10	20
N-Propylbenzene	50.0	48.5		ug/Kg		97	70 - 130	2	20
Styrene	50.0	50.2		ug/Kg		100	70 - 130	0	20
1,1,1,2-Tetrachloroethane	50.0	54.1		ug/Kg		108	70 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	44.5		ug/Kg		89	70 - 146	10	20
Tetrachloroethene	50.0	60.1		ug/Kg		120	70 - 132	3	20
Toluene	50.0	49.4		ug/Kg		99	80 - 128	1	20
1,2,3-Trichlorobenzene	50.0	54.4		ug/Kg		109	60 - 140	7	20
1,2,4-Trichlorobenzene	50.0	56.0		ug/Kg		112	60 - 140	4	20
1,1,1-Trichloroethane	50.0	52.2		ug/Kg		104	70 - 130	3	20
1,1,2-Trichloroethane	50.0	51.1		ug/Kg		102	70 - 130	5	20
Trichloroethene	50.0	56.6		ug/Kg		113	70 - 133	1	20
Trichlorofluoromethane	50.0	51.2		ug/Kg		102	60 - 140	3	20
1,2,3-Trichloropropane	50.0	45.7		ug/Kg		91	70 - 146	10	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	61.4		ug/Kg		123	60 - 140	5	20
1,2,4-Trimethylbenzene	50.0	49.8		ug/Kg		100	70 - 130	0	20
1,3,5-Trimethylbenzene	50.0	49.4		ug/Kg		99	70 - 131	1	20
Vinyl acetate	50.0	ND		ug/Kg		91	38 - 176	8	20
Vinyl chloride	50.0	42.0		ug/Kg		84	58 - 125	4	20
m-Xylene & p-Xylene	100	99.4		ug/Kg		99	70 - 146	2	20
o-Xylene	50.0	50.0		ug/Kg		100	70 - 140	2	20
2,2-Dichloropropane	50.0	52.3		ug/Kg		105	70 - 162	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-145910/11
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	94		45 - 131
1,2-Dichloroethane-d4 (Surr)	84		60 - 140
Toluene-d8 (Surr)	101		58 - 140

Lab Sample ID: LCSD 720-145910/8
Matrix: Solid
Analysis Batch: 145910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1010		ug/Kg		101	61 - 128	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	100		45 - 131
1,2-Dichloroethane-d4 (Surr)	102		60 - 140
Toluene-d8 (Surr)	101		58 - 140

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-145851/1-A
Matrix: Solid
Analysis Batch: 145829

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 145851

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		10/09/13 11:07	10/09/13 23:10	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		10/09/13 11:07	10/09/13 23:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.07		0 - 1	10/09/13 11:07	10/09/13 23:10	1
p-Terphenyl	105		38 - 148	10/09/13 11:07	10/09/13 23:10	1

Lab Sample ID: LCS 720-145851/2-A
Matrix: Solid
Analysis Batch: 145829

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 145851

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			82.9	75.1		mg/Kg		91	36 - 112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	113		38 - 148

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-145851/3-A
Matrix: Solid
Analysis Batch: 145829

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 145851

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.7	81.6		mg/Kg		99	36 - 112	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*117*		*38 - 148*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-145898/1-A
Matrix: Solid
Analysis Batch: 145966

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 145898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Arsenic	ND		1.0		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Barium	ND		0.50		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Beryllium	ND		0.10		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Cadmium	ND		0.13		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Chromium	ND		0.50		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Cobalt	ND		0.20		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Copper	ND		1.5		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Lead	ND		0.50		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Molybdenum	ND		0.50		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Nickel	ND		0.50		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Selenium	ND		1.0		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Silver	ND		0.25		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Thallium	ND		0.50		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Vanadium	ND		0.50		mg/Kg		10/09/13 19:17	10/10/13 15:14	1
Zinc	ND		1.5		mg/Kg		10/09/13 19:17	10/10/13 15:14	1

Lab Sample ID: LCS 720-145898/2-A
Matrix: Solid
Analysis Batch: 145966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 145898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.4		mg/Kg		95	80 - 120
Arsenic	50.0	50.3		mg/Kg		101	80 - 120
Barium	50.0	59.8		mg/Kg		120	80 - 120
Beryllium	50.0	51.5		mg/Kg		103	80 - 120
Cadmium	50.0	50.2		mg/Kg		100	80 - 120
Chromium	50.0	54.1		mg/Kg		108	80 - 120
Cobalt	50.0	51.2		mg/Kg		102	80 - 120
Copper	50.0	53.1		mg/Kg		106	80 - 120
Lead	50.0	52.7		mg/Kg		105	80 - 120
Molybdenum	50.0	52.0		mg/Kg		104	80 - 120
Nickel	50.0	53.2		mg/Kg		106	80 - 120
Selenium	50.0	49.5		mg/Kg		99	80 - 120
Silver	25.0	28.0		mg/Kg		112	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-145898/2-A
Matrix: Solid
Analysis Batch: 145966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 145898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	50.0	52.9		mg/Kg		106	80 - 120
Vanadium	50.0	50.5		mg/Kg		101	80 - 120
Zinc	50.0	51.0		mg/Kg		102	80 - 120

Lab Sample ID: LCSD 720-145898/3-A
Matrix: Solid
Analysis Batch: 145966

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 145898

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	47.9		mg/Kg		96	80 - 120	1	20
Arsenic	50.0	50.2		mg/Kg		100	80 - 120	0	20
Barium	50.0	59.3		mg/Kg		119	80 - 120	1	20
Beryllium	50.0	51.1		mg/Kg		102	80 - 120	1	20
Cadmium	50.0	50.0		mg/Kg		100	80 - 120	0	20
Chromium	50.0	53.7		mg/Kg		107	80 - 120	1	20
Cobalt	50.0	51.0		mg/Kg		102	80 - 120	0	20
Copper	50.0	52.8		mg/Kg		106	80 - 120	1	20
Lead	50.0	52.4		mg/Kg		105	80 - 120	1	20
Molybdenum	50.0	51.9		mg/Kg		104	80 - 120	0	20
Nickel	50.0	52.8		mg/Kg		106	80 - 120	1	20
Selenium	50.0	49.3		mg/Kg		99	80 - 120	0	20
Silver	25.0	28.1		mg/Kg		112	80 - 120	0	20
Thallium	50.0	52.7		mg/Kg		105	80 - 120	0	20
Vanadium	50.0	50.1		mg/Kg		100	80 - 120	1	20
Zinc	50.0	50.8		mg/Kg		102	80 - 120	0	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-145979/1-A
Matrix: Solid
Analysis Batch: 146052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 145979

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		10/10/13 18:03	10/11/13 13:30	1

Lab Sample ID: LCS 720-145979/2-A
Matrix: Solid
Analysis Batch: 146052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 145979

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.828		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 720-145979/3-A
Matrix: Solid
Analysis Batch: 146052

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 145979

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.833	0.802		mg/Kg		96	80 - 120	3	20

GC/MS VOA

Analysis Batch: 145910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52824-5	EX10/11-2-SPOILS-COMPA	Total/NA	Solid	8260B	145942
720-52824-10	EX10/11-2-SPOILS-COMPB	Total/NA	Solid	8260B	145942
720-52824-15	EX10/11-2-SPOILS-COMPC	Total/NA	Solid	8260B	145942
720-52824-20	EX10/11-2-SPOILS-COMPD	Total/NA	Solid	8260B	145942
720-52824-25	EX10/11-2-SPOILS-COMPE	Total/NA	Solid	8260B	145942
720-52824-30	EX10/11-2-SPOILS-COMPF	Total/NA	Solid	8260B	145942
LCS 720-145910/10	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-145910/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-145910/11	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-145910/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-145910/4	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 145942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52824-5	EX10/11-2-SPOILS-COMPA	Total/NA	Solid	5030B	
720-52824-10	EX10/11-2-SPOILS-COMPB	Total/NA	Solid	5030B	
720-52824-15	EX10/11-2-SPOILS-COMPC	Total/NA	Solid	5030B	
720-52824-20	EX10/11-2-SPOILS-COMPD	Total/NA	Solid	5030B	
720-52824-25	EX10/11-2-SPOILS-COMPE	Total/NA	Solid	5030B	
720-52824-30	EX10/11-2-SPOILS-COMPF	Total/NA	Solid	5030B	

GC Semi VOA

Analysis Batch: 145829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-145851/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	145851
LCSD 720-145851/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	145851
MB 720-145851/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	145851

Prep Batch: 145851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52824-5	EX10/11-2-SPOILS-COMPA	Silica Gel Cleanup	Solid	3546	
720-52824-10	EX10/11-2-SPOILS-COMPB	Silica Gel Cleanup	Solid	3546	
720-52824-15	EX10/11-2-SPOILS-COMPC	Silica Gel Cleanup	Solid	3546	
720-52824-20	EX10/11-2-SPOILS-COMPD	Silica Gel Cleanup	Solid	3546	
720-52824-25	EX10/11-2-SPOILS-COMPE	Silica Gel Cleanup	Solid	3546	
720-52824-30	EX10/11-2-SPOILS-COMPF	Silica Gel Cleanup	Solid	3546	
LCS 720-145851/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-145851/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-145851/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 146019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52824-20	EX10/11-2-SPOILS-COMPD	Silica Gel Cleanup	Solid	8015B	145851
720-52824-25	EX10/11-2-SPOILS-COMPE	Silica Gel Cleanup	Solid	8015B	145851
720-52824-30	EX10/11-2-SPOILS-COMPF	Silica Gel Cleanup	Solid	8015B	145851

Analysis Batch: 146020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52824-5	EX10/11-2-SPOILS-COMPA	Silica Gel Cleanup	Solid	8015B	145851

GC Semi VOA (Continued)

Analysis Batch: 146020 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52824-10	EX10/11-2-SPOILS-COMPB	Silica Gel Cleanup	Solid	8015B	145851
720-52824-15	EX10/11-2-SPOILS-COMPC	Silica Gel Cleanup	Solid	8015B	145851

Metals

Prep Batch: 145898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52824-5	EX10/11-2-SPOILS-COMPA	Total/NA	Solid	3050B	
720-52824-10	EX10/11-2-SPOILS-COMPB	Total/NA	Solid	3050B	
720-52824-15	EX10/11-2-SPOILS-COMPC	Total/NA	Solid	3050B	
720-52824-20	EX10/11-2-SPOILS-COMPD	Total/NA	Solid	3050B	
720-52824-25	EX10/11-2-SPOILS-COMPE	Total/NA	Solid	3050B	
720-52824-30	EX10/11-2-SPOILS-COMPF	Total/NA	Solid	3050B	
LCS 720-145898/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-145898/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-145898/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 145966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-145898/2-A	Lab Control Sample	Total/NA	Solid	6010B	145898
LCSD 720-145898/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	145898
MB 720-145898/1-A	Method Blank	Total/NA	Solid	6010B	145898

Prep Batch: 145979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52824-5	EX10/11-2-SPOILS-COMPA	Total/NA	Solid	7471A	
720-52824-10	EX10/11-2-SPOILS-COMPB	Total/NA	Solid	7471A	
720-52824-15	EX10/11-2-SPOILS-COMPC	Total/NA	Solid	7471A	
720-52824-20	EX10/11-2-SPOILS-COMPD	Total/NA	Solid	7471A	
720-52824-25	EX10/11-2-SPOILS-COMPE	Total/NA	Solid	7471A	
720-52824-30	EX10/11-2-SPOILS-COMPF	Total/NA	Solid	7471A	
LCS 720-145979/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-145979/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-145979/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 145996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52824-5	EX10/11-2-SPOILS-COMPA	Total/NA	Solid	6010B	145898
720-52824-10	EX10/11-2-SPOILS-COMPB	Total/NA	Solid	6010B	145898
720-52824-15	EX10/11-2-SPOILS-COMPC	Total/NA	Solid	6010B	145898
720-52824-20	EX10/11-2-SPOILS-COMPD	Total/NA	Solid	6010B	145898
720-52824-25	EX10/11-2-SPOILS-COMPE	Total/NA	Solid	6010B	145898
720-52824-30	EX10/11-2-SPOILS-COMPF	Total/NA	Solid	6010B	145898

Analysis Batch: 146052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52824-5	EX10/11-2-SPOILS-COMPA	Total/NA	Solid	7471A	145979
720-52824-10	EX10/11-2-SPOILS-COMPB	Total/NA	Solid	7471A	145979
720-52824-15	EX10/11-2-SPOILS-COMPC	Total/NA	Solid	7471A	145979
720-52824-20	EX10/11-2-SPOILS-COMPD	Total/NA	Solid	7471A	145979

Metals (Continued)

Analysis Batch: 146052 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52824-25	EX10/11-2-SPOILS-COMPE	Total/NA	Solid	7471A	145979
720-52824-30	EX10/11-2-SPOILS-COMPF	Total/NA	Solid	7471A	145979
LCS 720-145979/2-A	Lab Control Sample	Total/NA	Solid	7471A	145979
LCSD 720-145979/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	145979
MB 720-145979/1-A	Method Blank	Total/NA	Solid	7471A	145979

Client Sample ID: EX10/11-2-SPOILS-COMPA

Lab Sample ID: 720-52824-5

Date Collected: 10/07/13 09:35

Matrix: Solid

Date Received: 10/07/13 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145942	10/10/13 10:00	PDR	TAL PLS
Total/NA	Analysis	8260B		1	145910	10/10/13 16:21	LPL	TAL PLS
Silica Gel Cleanup	Prep	3546			145851	10/09/13 11:07	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	146020	10/11/13 15:54	DCH	TAL PLS
Total/NA	Prep	3050B			145898	10/09/13 19:17	CAM	TAL PLS
Total/NA	Analysis	6010B		4	145996	10/10/13 21:31	SLK	TAL PLS
Total/NA	Prep	7471A			145979	10/10/13 18:04	ECT	TAL PLS
Total/NA	Analysis	7471A		1	146052	10/11/13 14:17	EFH	TAL PLS

Client Sample ID: EX10/11-2-SPOILS-COMPB

Lab Sample ID: 720-52824-10

Date Collected: 10/07/13 09:55

Matrix: Solid

Date Received: 10/07/13 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145942	10/10/13 10:00	PDR	TAL PLS
Total/NA	Analysis	8260B		1	145910	10/10/13 16:47	LPL	TAL PLS
Silica Gel Cleanup	Prep	3546			145851	10/09/13 11:07	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	146020	10/11/13 16:24	DCH	TAL PLS
Total/NA	Prep	3050B			145898	10/09/13 19:17	CAM	TAL PLS
Total/NA	Analysis	6010B		4	145996	10/10/13 20:52	SLK	TAL PLS
Total/NA	Prep	7471A			145979	10/10/13 18:04	ECT	TAL PLS
Total/NA	Analysis	7471A		1	146052	10/11/13 14:19	EFH	TAL PLS

Client Sample ID: EX10/11-2-SPOILS-COMPC

Lab Sample ID: 720-52824-15

Date Collected: 10/07/13 10:15

Matrix: Solid

Date Received: 10/07/13 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145942	10/10/13 10:00	PDR	TAL PLS
Total/NA	Analysis	8260B		1	145910	10/10/13 17:13	LPL	TAL PLS
Silica Gel Cleanup	Prep	3546			145851	10/09/13 11:07	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	146020	10/11/13 16:53	DCH	TAL PLS
Total/NA	Prep	3050B			145898	10/09/13 19:17	CAM	TAL PLS
Total/NA	Analysis	6010B		4	145996	10/10/13 20:56	SLK	TAL PLS
Total/NA	Prep	7471A			145979	10/10/13 18:04	ECT	TAL PLS
Total/NA	Analysis	7471A		1	146052	10/11/13 14:21	EFH	TAL PLS

Client Sample ID: EX10/11-2-SPOILS-COMPD

Lab Sample ID: 720-52824-20

Date Collected: 10/07/13 10:35

Matrix: Solid

Date Received: 10/07/13 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145942	10/10/13 10:00	PDR	TAL PLS

Client Sample ID: EX10/11-2-SPOILS-COMPD

Lab Sample ID: 720-52824-20

Date Collected: 10/07/13 10:35

Matrix: Solid

Date Received: 10/07/13 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	145910	10/10/13 17:39	LPL	TAL PLS
Silica Gel Cleanup	Prep	3546			145851	10/09/13 11:07	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	146019	10/11/13 10:31	JL	TAL PLS
Total/NA	Prep	3050B			145898	10/09/13 19:17	CAM	TAL PLS
Total/NA	Analysis	6010B		4	145996	10/10/13 21:01	SLK	TAL PLS
Total/NA	Prep	7471A			145979	10/10/13 18:04	ECT	TAL PLS
Total/NA	Analysis	7471A		1	146052	10/11/13 14:28	EFH	TAL PLS

Client Sample ID: EX10/11-2-SPOILS-COMPE

Lab Sample ID: 720-52824-25

Date Collected: 10/07/13 10:55

Matrix: Solid

Date Received: 10/07/13 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145942	10/10/13 10:00	PDR	TAL PLS
Total/NA	Analysis	8260B		1	145910	10/10/13 18:05	LPL	TAL PLS
Silica Gel Cleanup	Prep	3546			145851	10/09/13 11:07	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	146019	10/11/13 11:00	JL	TAL PLS
Total/NA	Prep	3050B			145898	10/09/13 19:17	CAM	TAL PLS
Total/NA	Analysis	6010B		4	145996	10/10/13 21:05	SLK	TAL PLS
Total/NA	Prep	7471A			145979	10/10/13 18:04	ECT	TAL PLS
Total/NA	Analysis	7471A		1	146052	10/11/13 14:31	EFH	TAL PLS

Client Sample ID: EX10/11-2-SPOILS-COMPF

Lab Sample ID: 720-52824-30

Date Collected: 10/07/13 11:15

Matrix: Solid

Date Received: 10/07/13 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145942	10/10/13 10:00	PDR	TAL PLS
Total/NA	Analysis	8260B		1	145910	10/10/13 18:31	LPL	TAL PLS
Silica Gel Cleanup	Prep	3546			145851	10/09/13 11:07	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	146019	10/11/13 12:28	JL	TAL PLS
Total/NA	Prep	3050B			145898	10/09/13 19:17	CAM	TAL PLS
Total/NA	Analysis	6010B		4	145996	10/10/13 21:09	SLK	TAL PLS
Total/NA	Prep	7471A			145979	10/10/13 18:04	ECT	TAL PLS
Total/NA	Analysis	7471A		1	146052	10/11/13 14:33	EFH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-52824-5	EX10/11-2-SPOILS-COMPA	Solid	10/07/13 09:35	10/07/13 14:05
720-52824-10	EX10/11-2-SPOILS-COMPB	Solid	10/07/13 09:55	10/07/13 14:05
720-52824-15	EX10/11-2-SPOILS-COMPC	Solid	10/07/13 10:15	10/07/13 14:05
720-52824-20	EX10/11-2-SPOILS-COMPD	Solid	10/07/13 10:35	10/07/13 14:05
720-52824-25	EX10/11-2-SPOILS-COMPE	Solid	10/07/13 10:55	10/07/13 14:05
720-52824-30	EX10/11-2-SPOILS-COMPF	Solid	10/07/13 11:15	10/07/13 14:05

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 14912

Date 10/7/13 (M.) Page 1 of 3

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10/14/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St., Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT, BJM
Attn: Accounts Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☒ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other ___	Metals ☐ 6020 ☐ 200 8 (ICP-MS) ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Please composite per area as shown on Land Sample Ex 10/11·2·Spoils·Comp A Please composite per area as shown on Land Sample Ex 10/11·2·Spoils·Comp B		Number of Containers
Ex 10/11·2·Spoils·1	10/7/13	0935	Soil	unp.																			X			1
Ex 10/11·2·Spoils·2	10/7/13	0940	Soil	unp.																			X			1
Ex 10/11·2·Spoils·3	10/7/13	0945	Soil	unp.																			X			1
Ex 10/11·2·Spoils·4	10/7/13	0950	Soil	unp.																			X			1
Ex 10/11·2·Spoils·5	10/7/13	0955	Soil	unp.																				X		1
Ex 10/11·2·Spoils·6	10/7/13	1000	Soil	unp.																				X		1
Ex 10/11·2·Spoils·7	10/7/13	1005	Soil	unp.																				X		1
Ex 10/11·2·Spoils·8	10/7/13	1010	Soil	unp.																				X		1
Ex 10/11·2·Spoils·Comp A					X		X	X					X													
Ex 10/11·2·Spoils·Comp B					X		X	X					X													

Page 4 of 4

Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: # 39792

Sample Receipt

of Containers:
Head Space:
Temp: 12.3 °C

Credit Card Y/N: If yes, please call with payment information ASAP

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other.

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___

See Terms and Conditions on reverse

1) Relinquished by:
Signature
Time 1405
Brendan J. Mulholland
Printed Name
Date 10/7/13
Haley & Aldrich
Company

2) Relinquished by:
Signature
Printed Name
Company

3) Relinquished by:
Signature
Time
Printed Name
Date
Company

720-52824 Chain of Custody

1) Received by:
Signature
Time 1405
Justin Gonzales
Printed Name
Date 10/7/13
HAP
Company

2) Received by:
Signature
Time
Printed Name
Date
Company

3) Received by:
Signature
Time
Printed Name
Date
Company

Rev 10/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 149121

Date 10/7/13(M.) Page 2 of 3

720-52824

10/14/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St., Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT, BJM
Attn: Accounts Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) — X EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: X Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B X Silica Gel X Diesel X Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Metals: ☐ 6020 ☐ 200.8 (ICP-MS)	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Please composite the Comp.C samples as Ex10/11-2-Spoils-Comp.C	Please composite the Comp.D samples as Ex10/11-2-Spoils-Comp.D	Number of Containers
Ex10/11-2-Spoils-9	10/7/13	1015	Soil	unp.																			X		1
Ex10/11-2-Spoils-10	10/7/13	1020	Soil	unp.																			X		1
Ex10/11-2-Spoils-11	10/7/13	1025	Soil	unp.																			X		1
Ex10/11-2-Spoils-12	10/7/13	1030	Soil	unp.																			X		1
Ex10/11-2-Spoils-13	10/7/13	1035	Soil	unp.																				X	1
Ex10/11-2-Spoils-14	10/7/13	1040	Soil	unp.																				X	1
Ex10/11-2-Spoils-15	10/7/13	1045	Soil	unp.																				X	1
Ex10/11-2-Spoils-16	10/7/13	1050	Soil	unp.																				X	1
Ex10/11-2-Spoils-Comp.C					X		X	X					X												
Ex10/11-2-Spoils-Comp.D					X		X	X					X												

Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: # 39792
Credit Card Y/N.

Sample Receipt

of Containers:
Head Space:
Temp:
If yes, please call with payment information ASAP

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature			
Time	1405		
Printed Name	Brendan J. Mullins		
Date	10/7/13		
Company	Haley & Aldrich		

	1) Received by:	2) Received by:	3) Received by
Signature			
Time	1405		
Printed Name	Dustin Gonzales		
Date	10/7/13		
Company	TAP		

Rev.10/2012

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TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 149121

720-52824

Date 10/7/13 (M.) Page 3 of 3

10/14/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St., Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT, BJM
Attn: Accounts Payable
Phone: 925-357-9355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☒ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	Metals ☐ 6020 ☐ 200 8 (ICP-MS) ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314 0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Please composite prior to analysis. Label sample EX10/11-2-Spoils-Comp. E	Please composite prior to analysis. Label sample EX10/11-2-Spoils-Comp. F	Number of Containers
EX10/11-2-Spoils-17	10/7/13	1055	soil	unp.																		X			1
EX10/11-2-Spoils-18	10/7/13	1100	soil	unp.																		X			1
EX10/11-2-Spoils-19	10/7/13	1105	soil	unp.																		X			1
EX10/11-2-Spoils-20	10/7/13	1110	soil	unp.																		X			1
EX10/11-2-Spoils-21	10/7/13	1115	soil	unp.																			X		1
EX10/11-2-Spoils-22	10/7/13	1120	soil	unp.																			X		1
EX10/11-2-Spoils-23	10/7/13	1125	soil	unp.																			X		1
EX10/11-2-Spoils-24	10/7/13	1130	soil	unp.																			X		1
EX10/11-Spoils-Comp. E					X		X	X					X												
EX10/11-Spoils-Comp. F					X		X	X					X												

Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: #39792
Credit Card Y/N.

Sample Receipt

of Containers:
Head Space:
Temp:
If yes, please call with payment information ASAP

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other.

Report ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature / Time	Signature / Time	Signature / Time
Printed Name / Date: Brandon S. Mallett 1405	Printed Name / Date	Printed Name / Date
Company: Haley & Aldrich 10/7/13	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature / Time: 1405	Signature / Time	Signature / Time
Printed Name / Date: Justin Gonzales 10/7/13	Printed Name / Date	Printed Name / Date
Company: TAP	Company	Company

Rev 10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-52824-1

Login Number: 52824

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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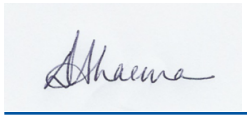
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-52824-2
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz



Authorized for release by:
10/29/2013 9:09:51 AM

Dimple Sharma, Project Manager I
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-2

Job ID: 720-52824-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-52824-2

Comments
No additional comments.

Receipt
The samples were received on 10/7/2013 2:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 12.3º C.

Metals
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-2

Client Sample ID: EX10/11-2-SPOILS-COMPB — Lab Sample ID: 720-52824-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.26		0.25		mg/L	2.5		6010B	STLC Citrate

Client Sample ID: EX10/11-2-SPOILS-COMPC — Lab Sample ID: 720-52824-15

No Detections.

Client Sample ID: EX10/11-2-SPOILS-COMPE — Lab Sample ID: 720-52824-25

No Detections.

Client Sample ID: EX10/11-2-SPOILS-COMPF — Lab Sample ID: 720-52824-30

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-2

Client Sample ID: EX10/11-2-SPOILS-COMPB
Date Collected: 10/07/13 09:55
Date Received: 10/07/13 14:05

Lab Sample ID: 720-52824-10
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.26		0.25		mg/L		10/28/13 10:31	10/28/13 16:14	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-2

Client Sample ID: EX10/11-2-SPOILS-COMPC — **Lab Sample ID: 720-52824-15**

Date Collected: 10/07/13 10:15 — **Matrix: Solid**

Date Received: 10/07/13 14:05

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		10/28/13 10:31	10/28/13 16:27	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-2

Client Sample ID: EX10/11-2-SPOILS-COMPE — **Lab Sample ID: 720-52824-25**

Date Collected: 10/07/13 10:55 — **Matrix: Solid**

Date Received: 10/07/13 14:05

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		10/28/13 10:33	10/28/13 16:31	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-2

Client Sample ID: EX10/11-2-SPOILS-COMPF
Date Collected: 10/07/13 11:15
Date Received: 10/07/13 14:05

Lab Sample ID: 720-52824-30
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		10/28/13 10:33	10/28/13 16:36	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-2

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-147161/1-A
Matrix: Solid
Analysis Batch: 147201

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 147161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.010		mg/L		10/28/13 10:31	10/28/13 14:40	1

Lab Sample ID: LCS 720-147161/2-A
Matrix: Solid
Analysis Batch: 147201

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 147161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.00	0.861		mg/L		86	80 - 120

Lab Sample ID: LCSD 720-147161/3-A
Matrix: Solid
Analysis Batch: 147201

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 147161

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	1.00	0.925		mg/L		93	80 - 120	7	20

Lab Sample ID: LB4 720-147094/1-C LB4
Matrix: Solid
Analysis Batch: 147201

Client Sample ID: Method Blank
Prep Type: STLC Citrate
Prep Batch: 147161

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10		mg/L		10/28/13 10:31	10/28/13 14:53	1

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-2

Metals

Leach Batch: 147094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52824-10	EX10/11-2-SPOILS-COMPB	STLC Citrate	Solid	CA WET Citrate	
720-52824-15	EX10/11-2-SPOILS-COMPC	STLC Citrate	Solid	CA WET Citrate	
720-52824-25	EX10/11-2-SPOILS-COMPE	STLC Citrate	Solid	CA WET Citrate	
720-52824-30	EX10/11-2-SPOILS-COMPF	STLC Citrate	Solid	CA WET Citrate	
LB4 720-147094/1-C LB4	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 147161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52824-10	EX10/11-2-SPOILS-COMPB	STLC Citrate	Solid	3005A	147094
720-52824-15	EX10/11-2-SPOILS-COMPC	STLC Citrate	Solid	3005A	147094
720-52824-25	EX10/11-2-SPOILS-COMPE	STLC Citrate	Solid	3005A	147094
720-52824-30	EX10/11-2-SPOILS-COMPF	STLC Citrate	Solid	3005A	147094
LB4 720-147094/1-C LB4	Method Blank	STLC Citrate	Solid	3005A	147094
LCS 720-147161/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-147161/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-147161/1-A	Method Blank	Total Recoverable	Solid	3005A	

Analysis Batch: 147201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52824-10	EX10/11-2-SPOILS-COMPB	STLC Citrate	Solid	6010B	147161
720-52824-15	EX10/11-2-SPOILS-COMPC	STLC Citrate	Solid	6010B	147161
720-52824-25	EX10/11-2-SPOILS-COMPE	STLC Citrate	Solid	6010B	147161
720-52824-30	EX10/11-2-SPOILS-COMPF	STLC Citrate	Solid	6010B	147161
LB4 720-147094/1-C LB4	Method Blank	STLC Citrate	Solid	6010B	147161
LCS 720-147161/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	147161
LCSD 720-147161/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	147161
MB 720-147161/1-A	Method Blank	Total Recoverable	Solid	6010B	147161

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-2

Client Sample ID: EX10/11-2-SPOILS-COMPB — Lab Sample ID: 720-52824-10

Date Collected: 10/07/13 09:55 — **Matrix: Solid**
Date Received: 10/07/13 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			147094	10/26/13 09:04	ASB	TAL PLS
STLC Citrate	Prep	3005A			147161	10/28/13 10:31	JCR	TAL PLS
STLC Citrate	Analysis	6010B		2.5	147201	10/28/13 16:14	EFH	TAL PLS

Client Sample ID: EX10/11-2-SPOILS-COMPC — Lab Sample ID: 720-52824-15

Date Collected: 10/07/13 10:15 — **Matrix: Solid**
Date Received: 10/07/13 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			147094	10/26/13 09:04	ASB	TAL PLS
STLC Citrate	Prep	3005A			147161	10/28/13 10:31	JCR	TAL PLS
STLC Citrate	Analysis	6010B		2.5	147201	10/28/13 16:27	EFH	TAL PLS

Client Sample ID: EX10/11-2-SPOILS-COMPE — Lab Sample ID: 720-52824-25

Date Collected: 10/07/13 10:55 — **Matrix: Solid**
Date Received: 10/07/13 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			147094	10/26/13 09:04	ASB	TAL PLS
STLC Citrate	Prep	3005A			147161	10/28/13 10:33	JCR	TAL PLS
STLC Citrate	Analysis	6010B		2.5	147201	10/28/13 16:31	EFH	TAL PLS

Client Sample ID: EX10/11-2-SPOILS-COMPF — Lab Sample ID: 720-52824-30

Date Collected: 10/07/13 11:15 — **Matrix: Solid**
Date Received: 10/07/13 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			147094	10/26/13 09:04	ASB	TAL PLS
STLC Citrate	Prep	3005A			147161	10/28/13 10:33	JCR	TAL PLS
STLC Citrate	Analysis	6010B		2.5	147201	10/28/13 16:36	EFH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-2

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-52824-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-52824-10	EX10/11-2-SPOILS-COMPB	Solid	10/07/13 09:55	10/07/13 14:05
720-52824-15	EX10/11-2-SPOILS-COMPC	Solid	10/07/13 10:15	10/07/13 14:05
720-52824-25	EX10/11-2-SPOILS-COMPE	Solid	10/07/13 10:55	10/07/13 14:05
720-52824-30	EX10/11-2-SPOILS-COMPF	Solid	10/07/13 11:15	10/07/13 14:05

720-52824-2

Mullen, Joan

From: Sharma, Dimple
Sent: Thursday, October 24, 2013 12:57 PM
To: Mullen, Joan
Subject: FW: Haley & Aldrich - Former Hanson Site - Additional Analysis Request (RUSH!)

-----Original Message-----
From: Brendan J. Mulholland [mailto:brendan@albionpartners.com]
Sent: Thu 10/24/2013 11:24 AM
To: Sharma, Dimple
Cc: James Schwartz; Vincent Tilotta
Subject: Haley & Aldrich - Former Hanson Site - Additional Analysis Request (RUSH!)

Good Morning Dimple,

Haley & Aldrich is hereby requesting additional analysis for W.E.T. STLC Chromium (Cr) on a RUSH (3-Day TAT) for the following samples:

EX3-2-Spoils-Comp., submitted on 10/3/2013; EX4-2-Spoils-Comp. A, submitted on 10/3/2013; EX4-2-Spoils-Comp. B, submitted on 10/3/2013; CF5-1-Spoils-Comp., submitted on 10/4/2013; EX9-2-Spoils-Comp., submitted on 10/4/2013; EX10/11-Seg.1-Spoils-Comp., submitted on 10/4/2013; EX10/11-2-Spoils-Comp.B, submitted on 10/7/2013; EX10/11-2-Spoils-Comp.C, submitted on 10/7/2013; EX10/11-2-Spoils-Comp.E, submitted on 10/7/2013; and EX10/11-2-Spoils-Comp.F, submitted on 10/7/2013.

Please contact me if you have any questions or comments, or require additional information.

Thanks Dimple and the TAP Team!

Sincerely,

Brendan J. Mulholland, PG,QSD
Albion Partners
410 China Basin Street
San Francisco, CA 94158
415-355-6647 direct
510-381-5584 cell
www.albionpartners.com

RUSH

720-52824 Chain of Custody

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-52824-2

Login Number: 52824

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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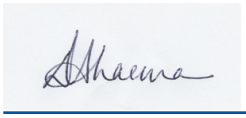
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-52824-2
Client Project/Site: Hanson
Revision: 1

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz



Authorized for release by:
11/4/2013 2:28:35 PM

Dimple Sharma, Project Manager I
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-52824-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-52824-2

Comments
No additional comments.

Receipt
The samples were received on 10/7/2013 2:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 12.3º C.

Metals
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-52824-2

Client Sample ID: EX10/11-2-SPOILS-COMPB — Lab Sample ID: 720-52824-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.26		0.25		mg/L	2.5		6010B	STLC Citrate

Client Sample ID: EX10/11-2-SPOILS-COMPC — Lab Sample ID: 720-52824-15

No Detections.

Client Sample ID: EX10/11-2-SPOILS-COMPE — Lab Sample ID: 720-52824-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.67		0.13		mg/L	2.5		6010B	STLC Citrate

Client Sample ID: EX10/11-2-SPOILS-COMPF — Lab Sample ID: 720-52824-30

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-52824-2

Client Sample ID: EX10/11-2-SPOILS-COMPB
Date Collected: 10/07/13 09:55
Date Received: 10/07/13 14:05

Lab Sample ID: 720-52824-10
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.26		0.25		mg/L		10/28/13 10:31	10/28/13 16:14	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-52824-2

Client Sample ID: EX10/11-2-SPOILS-COMPC — **Lab Sample ID: 720-52824-15**

Date Collected: 10/07/13 10:15 — **Matrix: Solid**

Date Received: 10/07/13 14:05

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		10/28/13 10:31	10/28/13 16:27	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-52824-2

Client Sample ID: EX10/11-2-SPOILS-COMPE — **Lab Sample ID: 720-52824-25**

Date Collected: 10/07/13 10:55 — **Matrix: Solid**

Date Received: 10/07/13 14:05

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		10/28/13 10:33	10/28/13 16:31	2.5
Lead	**0.67**		0.13		mg/L		10/28/13 10:33	10/28/13 16:31	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-52824-2

Client Sample ID: EX10/11-2-SPOILS-COMPF
Date Collected: 10/07/13 11:15
Date Received: 10/07/13 14:05

Lab Sample ID: 720-52824-30
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		10/28/13 10:33	10/28/13 16:36	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-52824-2

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-147161/1-A
Matrix: Solid
Analysis Batch: 147201

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 147161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.010		mg/L		10/28/13 10:31	10/28/13 14:40	1
Lead	ND		0.0050		mg/L		10/28/13 10:31	10/28/13 14:40	1

Lab Sample ID: LCS 720-147161/2-A
Matrix: Solid
Analysis Batch: 147201

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 147161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.00	0.861		mg/L		86	80 - 120
Lead	1.00	0.867		mg/L		87	80 - 120

Lab Sample ID: LCSD 720-147161/3-A
Matrix: Solid
Analysis Batch: 147201

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 147161

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	1.00	0.925		mg/L		93	80 - 120	7	20
Lead	1.00	0.924		mg/L		92	80 - 120	6	20

Lab Sample ID: LB4 720-147094/1-C LB4
Matrix: Solid
Analysis Batch: 147201

Client Sample ID: Method Blank
Prep Type: STLC Citrate
Prep Batch: 147161

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10		mg/L		10/28/13 10:31	10/28/13 14:53	1
Lead	ND		0.050		mg/L		10/28/13 10:31	10/28/13 14:53	1

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-52824-2

Metals

Leach Batch: 147094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52824-10	EX10/11-2-SPOILS-COMPB	STLC Citrate	Solid	CA WET Citrate	
720-52824-15	EX10/11-2-SPOILS-COMPC	STLC Citrate	Solid	CA WET Citrate	
720-52824-25	EX10/11-2-SPOILS-COMPE	STLC Citrate	Solid	CA WET Citrate	
720-52824-30	EX10/11-2-SPOILS-COMPF	STLC Citrate	Solid	CA WET Citrate	
LB4 720-147094/1-C LB4	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 147161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52824-10	EX10/11-2-SPOILS-COMPB	STLC Citrate	Solid	3005A	147094
720-52824-15	EX10/11-2-SPOILS-COMPC	STLC Citrate	Solid	3005A	147094
720-52824-25	EX10/11-2-SPOILS-COMPE	STLC Citrate	Solid	3005A	147094
720-52824-30	EX10/11-2-SPOILS-COMPF	STLC Citrate	Solid	3005A	147094
LB4 720-147094/1-C LB4	Method Blank	STLC Citrate	Solid	3005A	147094
LCS 720-147161/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-147161/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-147161/1-A	Method Blank	Total Recoverable	Solid	3005A	

Analysis Batch: 147201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52824-10	EX10/11-2-SPOILS-COMPB	STLC Citrate	Solid	6010B	147161
720-52824-15	EX10/11-2-SPOILS-COMPC	STLC Citrate	Solid	6010B	147161
720-52824-25	EX10/11-2-SPOILS-COMPE	STLC Citrate	Solid	6010B	147161
720-52824-30	EX10/11-2-SPOILS-COMPF	STLC Citrate	Solid	6010B	147161
LB4 720-147094/1-C LB4	Method Blank	STLC Citrate	Solid	6010B	147161
LCS 720-147161/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	147161
LCSD 720-147161/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	147161
MB 720-147161/1-A	Method Blank	Total Recoverable	Solid	6010B	147161

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-52824-2

Client Sample ID: EX10/11-2-SPOILS-COMPB — Lab Sample ID: 720-52824-10

Date Collected: 10/07/13 09:55 — **Matrix: Solid**
Date Received: 10/07/13 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			147094	10/26/13 09:04	ASB	TAL PLS
STLC Citrate	Prep	3005A			147161	10/28/13 10:31	JCR	TAL PLS
STLC Citrate	Analysis	6010B		2.5	147201	10/28/13 16:14	EFH	TAL PLS

Client Sample ID: EX10/11-2-SPOILS-COMPC — Lab Sample ID: 720-52824-15

Date Collected: 10/07/13 10:15 — **Matrix: Solid**
Date Received: 10/07/13 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			147094	10/26/13 09:04	ASB	TAL PLS
STLC Citrate	Prep	3005A			147161	10/28/13 10:31	JCR	TAL PLS
STLC Citrate	Analysis	6010B		2.5	147201	10/28/13 16:27	EFH	TAL PLS

Client Sample ID: EX10/11-2-SPOILS-COMPE — Lab Sample ID: 720-52824-25

Date Collected: 10/07/13 10:55 — **Matrix: Solid**
Date Received: 10/07/13 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			147094	10/26/13 09:04	ASB	TAL PLS
STLC Citrate	Prep	3005A			147161	10/28/13 10:33	JCR	TAL PLS
STLC Citrate	Analysis	6010B		2.5	147201	10/28/13 16:31	EFH	TAL PLS

Client Sample ID: EX10/11-2-SPOILS-COMPF — Lab Sample ID: 720-52824-30

Date Collected: 10/07/13 11:15 — **Matrix: Solid**
Date Received: 10/07/13 14:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			147094	10/26/13 09:04	ASB	TAL PLS
STLC Citrate	Prep	3005A			147161	10/28/13 10:33	JCR	TAL PLS
STLC Citrate	Analysis	6010B		2.5	147201	10/28/13 16:36	EFH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-52824-2

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-52824-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-52824-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-52824-10	EX10/11-2-SPOILS-COMPB	Solid	10/07/13 09:55	10/07/13 14:05
720-52824-15	EX10/11-2-SPOILS-COMPC	Solid	10/07/13 10:15	10/07/13 14:05
720-52824-25	EX10/11-2-SPOILS-COMPE	Solid	10/07/13 10:55	10/07/13 14:05
720-52824-30	EX10/11-2-SPOILS-COMPF	Solid	10/07/13 11:15	10/07/13 14:05

720-52824-2

Mullen, Joan

From: Sharma, Dimple
Sent: Thursday, October 24, 2013 12:57 PM
To: Mullen, Joan
Subject: FW: Haley & Aldrich - Former Hanson Site - Additional Analysis Request (RUSH!)

-----Original Message-----
From: Brendan J. Mulholland [mailto:brendan@albionpartners.com]
Sent: Thu 10/24/2013 11:24 AM
To: Sharma, Dimple
Cc: James Schwartz; Vincent Tilotta
Subject: Haley & Aldrich - Former Hanson Site - Additional Analysis Request (RUSH!)

Good Morning Dimple,

Haley & Aldrich is hereby requesting additional analysis for W.E.T. STLC Chromium (Cr) on a RUSH (3-Day TAT) for the following samples:

EX3-2-Spoils-Comp., submitted on 10/3/2013; EX4-2-Spoils-Comp. A, submitted on 10/3/2013; EX4-2-Spoils-Comp. B, submitted on 10/3/2013; CF5-1-Spoils-Comp., submitted on 10/4/2013; EX9-2-Spoils-Comp., submitted on 10/4/2013; EX10/11-Seg.1-Spoils-Comp., submitted on 10/4/2013; EX10/11-2-Spoils-Comp.B, submitted on 10/7/2013; EX10/11-2-Spoils-Comp.C, submitted on 10/7/2013; EX10/11-2-Spoils-Comp.E, submitted on 10/7/2013; and EX10/11-2-Spoils-Comp.F, submitted on 10/7/2013.

Please contact me if you have any questions or comments, or require additional information.

Thanks Dimple and the TAP Team!

Sincerely,

Brendan J. Mulholland, PG,QSD
Albion Partners
410 China Basin Street
San Francisco, CA 94158
415-355-6647 direct
510-381-5584 cell
www.albionpartners.com

RUSH

720-52824 Chain of Custody

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-52824-2

Login Number: 52824

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-53216-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz

Authorized for release by:
10/26/2013 12:40:52 PM

Dimple Sharma, Project Manager I
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-53216-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-53216-1

Comments
No additional comments.

Receipt
The samples were received on 10/22/2013 4:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 23.0º C.

Metals
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53216-1

Client Sample ID: TS-SPOILS-COMP.A2 **Lab Sample ID: 720-53216-5**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53216-1

Client Sample ID: TS-SPOILS-COMP.A2
Date Collected: 10/22/13 14:55
Date Received: 10/22/13 16:10

Lab Sample ID: 720-53216-5
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10		mg/L		10/25/13 14:58	10/25/13 18:13	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-147052/1-A
Matrix: Solid
Analysis Batch: 147067

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 147052

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.010		mg/L		10/25/13 14:58	10/25/13 15:57	1

Lab Sample ID: LCS 720-147052/2-A
Matrix: Solid
Analysis Batch: 147078

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 147052

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.00	0.889		mg/L		89	80 - 120

Lab Sample ID: LCSD 720-147052/3-A
Matrix: Solid
Analysis Batch: 147067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 147052

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	1.00	0.832		mg/L					

Lab Sample ID: LB4 720-146825/1-C LB4
Matrix: Solid
Analysis Batch: 147078

Client Sample ID: Method Blank
Prep Type: STLC Citrate
Prep Batch: 147052

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10		mg/L		10/25/13 14:58	10/25/13 18:09	1

Lab Sample ID: LB4 720-146867/1-B LB4
Matrix: Solid
Analysis Batch: 147067

Client Sample ID: Method Blank
Prep Type: STLC Citrate
Prep Batch: 147052

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		10/25/13 14:58	10/25/13 16:10	2.5

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53216-1

Metals

Leach Batch: 146825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53216-5	TS-SPOILS-COMP.A2	STLC Citrate	Solid	CA WET Citrate	
LB4 720-146825/1-C LB4	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Leach Batch: 146867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB4 720-146867/1-B LB4	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 147052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53216-5	TS-SPOILS-COMP.A2	STLC Citrate	Solid	3005A	146825
LB4 720-146825/1-C LB4	Method Blank	STLC Citrate	Solid	3005A	146825
LB4 720-146867/1-B LB4	Method Blank	STLC Citrate	Solid	3005A	146867
LCS 720-147052/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-147052/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-147052/1-A	Method Blank	Total Recoverable	Solid	3005A	

Analysis Batch: 147067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB4 720-146867/1-B LB4	Method Blank	STLC Citrate	Solid	6010B	147052
LCSD 720-147052/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	147052
MB 720-147052/1-A	Method Blank	Total Recoverable	Solid	6010B	147052

Analysis Batch: 147078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53216-5	TS-SPOILS-COMP.A2	STLC Citrate	Solid	6010B	147052
LB4 720-146825/1-C LB4	Method Blank	STLC Citrate	Solid	6010B	147052
LCS 720-147052/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	147052

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53216-1

Client Sample ID: TS-SPOILS-COMP.A2
Date Collected: 10/22/13 14:55
Date Received: 10/22/13 16:10

Lab Sample ID: 720-53216-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			146825	10/23/13 10:30	JCR	TAL PLS
STLC Citrate	Prep	3005A			147052	10/25/13 14:58	ASB	TAL PLS
STLC Citrate	Analysis	6010B		1	147078	10/25/13 18:13	SLK	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53216-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53216-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53216-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-53216-5	TS-SPOILS-COMP.A2	Solid	10/22/13 14:55	10/22/13 16:10

TestAmerica
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TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-53216

Reference #: 149526

Date 10/22/13(Tu.) Page 1 of 1

10/26/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St., Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com

Bill To: Haley & Aldrich
Attn: Accounts Payable

Sampled By: VT, BJM
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides PCBs ☐ EPA 8081 ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS): ___	W.E.T (STLC) (Cr.) ☒ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Please composite samples prior to analysis. Keep samples as indicated. STLC-Chromium (Cr.)	Number of Containers
TS-Spo-1s-A-5	10/22/13	1455	Soil	unp.																			X		1
TS-Spo-1s-A-6	10/22/13	1500	Soil	unp.																			X		1
TS-Spo-1s-A-7	10/22/13	1505	Soil	unp.																			X		1
TS-Spo-1s-A-8	10/22/13	1510	Soil	unp.																			X		1
TS-Spo-1s-Comp. A2																X						X			4

RUSH

Page 13 of 14

Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: #39792
Credit Card Y/N: If yes, please call with payment information ASAP

Sample Receipt

of Containers:
Head Space:
Temp: 23.0°c

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by.
Signature: [signature] Time: 1610	Signature:	Time:
Printed Name: Brandon J. Mulholland Date: 10/22/13	Printed Name:	Date:
Company: Haley & Aldrich	Company:	

720-53216 Chain of Custody

1) Received by:	2) Received by:	3) Received by.
Signature: [signature] Time: 1610	Signature: Time:	Signature: Time:
Printed Name: Justin Gonzales Date: 10/22/13	Printed Name: Date:	Printed Name: Date:
Company: TAP	Company:	Company:

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-53216-1

Login Number: 53216

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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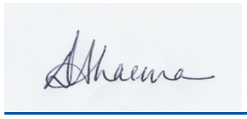
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-53255-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz



Authorized for release by:
10/31/2013 4:51:32 PM

Dimple Sharma, Project Manager I
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-53255-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-53255-1

Comments
No additional comments.

Receipt
The samples were received on 10/23/2013 3:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.6º C.

GC/MS VOA
Method 8260B: Internal standard (ISTD) response for the following samples was outside control limits: EX4-3-SPOILS-COMP (720-53255-5). The sample was re-analyzed with concurring results.

Method 8260B: The laboratory control sample duplicate (LCSD) for batch #147339 recovered outside control limits for the following analytes: MEK,2-HEXANONE. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: EX4-3-SPOILS-COMP (720-53255-5).

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53255-1

Client Sample ID: EX4-3-SPOILS-COMP

Lab Sample ID: 720-53255-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	340		5.0		mg/Kg	5		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	810		250		mg/Kg	5		8015B	Silica Gel Cleanup
Arsenic	3.9		3.7		mg/Kg	4		6010B	Total/NA
Barium	110		1.9		mg/Kg	4		6010B	Total/NA
Chromium	61		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	9.0		0.75		mg/Kg	4		6010B	Total/NA
Copper	27		5.6		mg/Kg	4		6010B	Total/NA
Lead	9.9		1.9		mg/Kg	4		6010B	Total/NA
Nickel	72		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	29		1.9		mg/Kg	4		6010B	Total/NA
Zinc	42		5.6		mg/Kg	4		6010B	Total/NA
Mercury	0.030		0.0090		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53255-1

Client Sample ID: EX4-3-SPOILS-COMP — **Lab Sample ID: 720-53255-5**
Date Collected: 10/23/13 11:00 — **Matrix: Solid**
Date Received: 10/23/13 15:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Acetone	ND		49		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Benzene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Dichlorobromomethane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Bromobenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Chlorobromomethane	ND		20		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Bromoform	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Bromomethane	ND		9.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
2-Butanone (MEK)	ND		49		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
n-Butylbenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
sec-Butylbenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
tert-Butylbenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Carbon disulfide	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Carbon tetrachloride	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Chlorobenzene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Chloroethane	ND		9.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Chloroform	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Chloromethane	ND		9.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
2-Chlorotoluene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
4-Chlorotoluene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Chlorodibromomethane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,2-Dichlorobenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,3-Dichlorobenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,4-Dichlorobenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,3-Dichloropropane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,1-Dichloropropene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,2-Dibromo-3-Chloropropane	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Ethylene Dibromide	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Dibromomethane	ND		9.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,1-Dichloroethane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,2-Dichloroethane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,1-Dichloroethene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,2-Dichloropropane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Ethylbenzene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Hexachlorobutadiene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
2-Hexanone	ND		49		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Isopropylbenzene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
4-Isopropyltoluene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Methylene Chloride	ND		9.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Naphthalene	ND	*	9.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
N-Propylbenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Styrene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53255-1

Client Sample ID: EX4-3-SPOILS-COMP — **Lab Sample ID: 720-53255-5**
Date Collected: 10/23/13 11:00 — **Matrix: Solid**
Date Received: 10/23/13 15:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Tetrachloroethene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Toluene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,2,3-Trichlorobenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,2,4-Trichlorobenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Trichloroethene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Trichlorofluoromethane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,2,3-Trichloropropane	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,2,4-Trimethylbenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
1,3,5-Trimethylbenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Vinyl acetate	ND		49		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Vinyl chloride	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Xylenes, Total	ND		9.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
2,2-Dichloropropane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 17:40	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		10/29/13 10:00	10/29/13 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*76*		*45 - 131*	*10/29/13 10:00*	*10/29/13 17:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 140*	*10/29/13 10:00*	*10/29/13 17:40*	*1*
Toluene-d8 (Surr)	*87*		*58 - 140*	*10/29/13 10:00*	*10/29/13 17:40*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**340**		5.0		mg/Kg		10/30/13 08:46	10/30/13 23:48	5
Motor Oil Range Organics [C24-C36]	**810**		250		mg/Kg		10/30/13 08:46	10/30/13 23:48	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/30/13 08:46*	*10/30/13 23:48*	*5*
p-Terphenyl	*0*	*X D*	*38 - 148*	*10/30/13 08:46*	*10/30/13 23:48*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		10/29/13 20:53	10/30/13 13:55	4
Arsenic	**3.9**		3.7		mg/Kg		10/29/13 20:53	10/30/13 13:55	4
Barium	**110**		1.9		mg/Kg		10/29/13 20:53	10/30/13 13:55	4
Beryllium	ND		0.37		mg/Kg		10/29/13 20:53	10/30/13 13:55	4
Cadmium	ND		0.47		mg/Kg		10/29/13 20:53	10/30/13 13:55	4
Chromium	**61**		1.9		mg/Kg		10/29/13 20:53	10/30/13 13:55	4
Cobalt	**9.0**		0.75		mg/Kg		10/29/13 20:53	10/30/13 13:55	4
Copper	**27**		5.6		mg/Kg		10/29/13 20:53	10/30/13 13:55	4
Lead	**9.9**		1.9		mg/Kg		10/29/13 20:53	10/30/13 13:55	4
Molybdenum	ND		1.9		mg/Kg		10/29/13 20:53	10/30/13 13:55	4
Nickel	**72**		1.9		mg/Kg		10/29/13 20:53	10/30/13 13:55	4
Selenium	ND		3.7		mg/Kg		10/29/13 20:53	10/30/13 13:55	4
Silver	ND		0.93		mg/Kg		10/29/13 20:53	10/30/13 13:55	4
Thallium	ND		1.9		mg/Kg		10/29/13 20:53	10/30/13 13:55	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53255-1

Client Sample ID: EX4-3-SPOILS-COMP
Date Collected: 10/23/13 11:00
Date Received: 10/23/13 15:15

Lab Sample ID: 720-53255-5
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	29		1.9		mg/Kg		10/29/13 20:53	10/30/13 13:55	4
Zinc	42		5.6		mg/Kg		10/29/13 20:53	10/30/13 13:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.0090		mg/Kg		10/29/13 21:51	10/30/13 13:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-147228/4
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			10/29/13 10:20	1
Acetone	ND		50		ug/Kg			10/29/13 10:20	1
Benzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Dichlorobromomethane	ND		5.0		ug/Kg			10/29/13 10:20	1
Bromobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Chlorobromomethane	ND		20		ug/Kg			10/29/13 10:20	1
Bromoform	ND		5.0		ug/Kg			10/29/13 10:20	1
Bromomethane	ND		10		ug/Kg			10/29/13 10:20	1
2-Butanone (MEK)	ND		50		ug/Kg			10/29/13 10:20	1
n-Butylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
sec-Butylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
tert-Butylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Carbon disulfide	ND		5.0		ug/Kg			10/29/13 10:20	1
Carbon tetrachloride	ND		5.0		ug/Kg			10/29/13 10:20	1
Chlorobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Chloroethane	ND		10		ug/Kg			10/29/13 10:20	1
Chloroform	ND		5.0		ug/Kg			10/29/13 10:20	1
Chloromethane	ND		10		ug/Kg			10/29/13 10:20	1
2-Chlorotoluene	ND		5.0		ug/Kg			10/29/13 10:20	1
4-Chlorotoluene	ND		5.0		ug/Kg			10/29/13 10:20	1
Chlorodibromomethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,3-Dichloropropane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1-Dichloropropene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			10/29/13 10:20	1
Ethylene Dibromide	ND		5.0		ug/Kg			10/29/13 10:20	1
Dibromomethane	ND		10		ug/Kg			10/29/13 10:20	1
Dichlorodifluoromethane	ND		10		ug/Kg			10/29/13 10:20	1
1,1-Dichloroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2-Dichloroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1-Dichloroethene	ND		5.0		ug/Kg			10/29/13 10:20	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			10/29/13 10:20	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2-Dichloropropane	ND		5.0		ug/Kg			10/29/13 10:20	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			10/29/13 10:20	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			10/29/13 10:20	1
Ethylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Hexachlorobutadiene	ND		5.0		ug/Kg			10/29/13 10:20	1
2-Hexanone	ND		50		ug/Kg			10/29/13 10:20	1
Isopropylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
4-Isopropyltoluene	ND		5.0		ug/Kg			10/29/13 10:20	1
Methylene Chloride	ND		10		ug/Kg			10/29/13 10:20	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			10/29/13 10:20	1
Naphthalene	ND		10		ug/Kg			10/29/13 10:20	1
N-Propylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Styrene	ND		5.0		ug/Kg			10/29/13 10:20	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-147228/4
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
Tetrachloroethene	ND		5.0		ug/Kg			10/29/13 10:20	1
Toluene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
Trichloroethene	ND		5.0		ug/Kg			10/29/13 10:20	1
Trichlorofluoromethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Vinyl acetate	ND		50		ug/Kg			10/29/13 10:20	1
Vinyl chloride	ND		5.0		ug/Kg			10/29/13 10:20	1
Xylenes, Total	ND		10		ug/Kg			10/29/13 10:20	1
2,2-Dichloropropane	ND		5.0		ug/Kg			10/29/13 10:20	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			10/29/13 10:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*45 - 131*		*10/29/13 10:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*10/29/13 10:20*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*		*10/29/13 10:20*	*1*

Lab Sample ID: LCS 720-147228/5
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	55.7		ug/Kg		111	70 - 144
Acetone	250	225		ug/Kg		90	30 - 162
Benzene	50.0	48.5		ug/Kg		97	70 - 130
Dichlorobromomethane	50.0	54.1		ug/Kg		108	70 - 131
Bromobenzene	50.0	49.7		ug/Kg		99	70 - 130
Chlorobromomethane	50.0	52.4		ug/Kg		105	70 - 130
Bromoform	50.0	56.4		ug/Kg		113	59 - 158
Bromomethane	50.0	54.4		ug/Kg		109	59 - 132
2-Butanone (MEK)	250	261		ug/Kg		104	53 - 124
n-Butylbenzene	50.0	48.9		ug/Kg		98	70 - 142
sec-Butylbenzene	50.0	48.3		ug/Kg		97	70 - 136
tert-Butylbenzene	50.0	49.4		ug/Kg		99	70 - 130
Carbon disulfide	50.0	53.0		ug/Kg		106	60 - 140
Carbon tetrachloride	50.0	60.8		ug/Kg		122	70 - 138
Chlorobenzene	50.0	49.8		ug/Kg		100	70 - 130
Chloroethane	50.0	47.9		ug/Kg		96	65 - 130
Chloroform	50.0	53.0		ug/Kg		106	77 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-147228/5
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	43.5		ug/Kg		87	55 - 140
2-Chlorotoluene	50.0	49.5		ug/Kg		99	70 - 138
4-Chlorotoluene	50.0	49.0		ug/Kg		98	70 - 136
Chlorodibromomethane	50.0	57.0		ug/Kg		114	70 - 146
1,2-Dichlorobenzene	50.0	48.7		ug/Kg		97	70 - 130
1,3-Dichlorobenzene	50.0	49.3		ug/Kg		99	70 - 131
1,4-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 130
1,3-Dichloropropane	50.0	51.8		ug/Kg		104	70 - 140
1,1-Dichloropropene	50.0	54.9		ug/Kg		110	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.5		ug/Kg		101	60 - 145
Ethylene Dibromide	50.0	55.5		ug/Kg		111	70 - 140
Dibromomethane	50.0	55.1		ug/Kg		110	70 - 139
Dichlorodifluoromethane	50.0	39.7		ug/Kg		79	37 - 158
1,1-Dichloroethane	50.0	50.4		ug/Kg		101	70 - 130
1,2-Dichloroethane	50.0	54.9		ug/Kg		110	70 - 130
1,1-Dichloroethene	50.0	48.6		ug/Kg		97	76 - 122
cis-1,2-Dichloroethene	50.0	52.0		ug/Kg		104	70 - 138
trans-1,2-Dichloroethene	50.0	47.6		ug/Kg		95	67 - 130
1,2-Dichloropropane	50.0	45.9		ug/Kg		92	73 - 127
cis-1,3-Dichloropropene	50.0	52.9		ug/Kg		106	68 - 147
trans-1,3-Dichloropropene	50.0	55.6		ug/Kg		111	70 - 136
Ethylbenzene	50.0	50.3		ug/Kg		101	80 - 137
Hexachlorobutadiene	50.0	46.5		ug/Kg		93	70 - 132
2-Hexanone	250	236		ug/Kg		94	44 - 133
Isopropylbenzene	50.0	52.5		ug/Kg		105	88 - 128
4-Isopropyltoluene	50.0	49.5		ug/Kg		99	70 - 133
Methylene Chloride	50.0	41.4		ug/Kg		83	70 - 134
4-Methyl-2-pentanone (MIBK)	250	236		ug/Kg		95	60 - 160
Naphthalene	50.0	46.1		ug/Kg		92	60 - 147
N-Propylbenzene	50.0	48.9		ug/Kg		98	70 - 130
Styrene	50.0	51.3		ug/Kg		103	70 - 130
1,1,1,2-Tetrachloroethane	50.0	52.8		ug/Kg		106	70 - 130
1,1,2,2-Tetrachloroethane	50.0	46.1		ug/Kg		92	70 - 146
Tetrachloroethene	50.0	54.8		ug/Kg		110	70 - 132
Toluene	50.0	49.5		ug/Kg		99	80 - 128
1,2,3-Trichlorobenzene	50.0	44.6		ug/Kg		89	60 - 140
1,2,4-Trichlorobenzene	50.0	47.1		ug/Kg		94	60 - 140
1,1,1-Trichloroethane	50.0	60.1		ug/Kg		120	70 - 130
1,1,2-Trichloroethane	50.0	51.1		ug/Kg		102	70 - 130
Trichloroethene	50.0	50.8		ug/Kg		102	70 - 133
Trichlorofluoromethane	50.0	59.7		ug/Kg		119	60 - 140
1,2,3-Trichloropropane	50.0	52.1		ug/Kg		104	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.4		ug/Kg		109	60 - 140
1,2,4-Trimethylbenzene	50.0	49.5		ug/Kg		99	70 - 130
1,3,5-Trimethylbenzene	50.0	49.9		ug/Kg		100	70 - 131
Vinyl acetate	50.0	55.0		ug/Kg		110	38 - 176
Vinyl chloride	50.0	45.7		ug/Kg		91	58 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-147228/5
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	100	103		ug/Kg		103	70 - 146
o-Xylene	50.0	52.8		ug/Kg		106	70 - 140
2,2-Dichloropropane	50.0	58.1		ug/Kg		116	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: LCS 720-147228/7
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	908		ug/Kg		91	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: LCSD 720-147228/6
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	53.2		ug/Kg		106	70 - 144	5	20
Acetone	250	207		ug/Kg		83	30 - 162	8	30
Benzene	50.0	48.1		ug/Kg		96	70 - 130	1	20
Dichlorobromomethane	50.0	53.9		ug/Kg		108	70 - 131	0	20
Bromobenzene	50.0	50.1		ug/Kg		100	70 - 130	1	20
Chlorobromomethane	50.0	52.2		ug/Kg		104	70 - 130	1	20
Bromoform	50.0	56.6		ug/Kg		113	59 - 158	0	20
Bromomethane	50.0	51.7		ug/Kg		103	59 - 132	5	20
2-Butanone (MEK)	250	247		ug/Kg		99	53 - 124	6	20
n-Butylbenzene	50.0	51.1		ug/Kg		102	70 - 142	4	20
sec-Butylbenzene	50.0	49.8		ug/Kg		100	70 - 136	3	20
tert-Butylbenzene	50.0	50.7		ug/Kg		101	70 - 130	3	20
Carbon disulfide	50.0	52.3		ug/Kg		105	60 - 140	1	20
Carbon tetrachloride	50.0	60.6		ug/Kg		121	70 - 138	0	20
Chlorobenzene	50.0	50.2		ug/Kg		100	70 - 130	1	20
Chloroethane	50.0	46.5		ug/Kg		93	65 - 130	3	20
Chloroform	50.0	52.4		ug/Kg		105	77 - 127	1	20
Chloromethane	50.0	40.6		ug/Kg		81	55 - 140	7	20
2-Chlorotoluene	50.0	50.1		ug/Kg		100	70 - 138	1	20
4-Chlorotoluene	50.0	50.0		ug/Kg		100	70 - 136	2	20
Chlorodibromomethane	50.0	56.2		ug/Kg		112	70 - 146	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-147228/6
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	50.5		ug/Kg		101	70 - 130	4	20
1,3-Dichlorobenzene	50.0	51.9		ug/Kg		104	70 - 131	5	20
1,4-Dichlorobenzene	50.0	52.4		ug/Kg		105	70 - 130	4	20
1,3-Dichloropropane	50.0	50.8		ug/Kg		102	70 - 140	2	20
1,1-Dichloropropene	50.0	54.4		ug/Kg		109	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	50.0	50.1		ug/Kg		100	60 - 145	1	20
Ethylene Dibromide	50.0	53.7		ug/Kg		107	70 - 140	3	20
Dibromomethane	50.0	53.7		ug/Kg		107	70 - 139	3	20
Dichlorodifluoromethane	50.0	38.4		ug/Kg		77	37 - 158	3	20
1,1-Dichloroethane	50.0	50.0		ug/Kg		100	70 - 130	1	20
1,2-Dichloroethane	50.0	53.9		ug/Kg		108	70 - 130	2	20
1,1-Dichloroethene	50.0	47.6		ug/Kg		95	76 - 122	2	20
cis-1,2-Dichloroethene	50.0	51.6		ug/Kg		103	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	46.9		ug/Kg		94	67 - 130	1	20
1,2-Dichloropropane	50.0	46.1		ug/Kg		92	73 - 127	0	20
cis-1,3-Dichloropropene	50.0	52.0		ug/Kg		104	68 - 147	2	20
trans-1,3-Dichloropropene	50.0	55.6		ug/Kg		111	70 - 136	0	20
Ethylbenzene	50.0	50.8		ug/Kg		102	80 - 137	1	20
Hexachlorobutadiene	50.0	49.9		ug/Kg		100	70 - 132	7	20
2-Hexanone	250	210		ug/Kg		84	44 - 133	12	20
Isopropylbenzene	50.0	53.0		ug/Kg		106	88 - 128	1	20
4-Isopropyltoluene	50.0	51.4		ug/Kg		103	70 - 133	4	20
Methylene Chloride	50.0	42.0		ug/Kg		84	70 - 134	2	20
4-Methyl-2-pentanone (MIBK)	250	215		ug/Kg		86	60 - 160	9	20
Naphthalene	50.0	47.9		ug/Kg		96	60 - 147	4	20
N-Propylbenzene	50.0	49.4		ug/Kg		99	70 - 130	1	20
Styrene	50.0	52.5		ug/Kg		105	70 - 130	2	20
1,1,1,2-Tetrachloroethane	50.0	53.3		ug/Kg		107	70 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	45.6		ug/Kg		91	70 - 146	1	20
Tetrachloroethene	50.0	54.5		ug/Kg		109	70 - 132	1	20
Toluene	50.0	50.7		ug/Kg		101	80 - 128	2	20
1,2,3-Trichlorobenzene	50.0	47.7		ug/Kg		95	60 - 140	7	20
1,2,4-Trichlorobenzene	50.0	50.5		ug/Kg		101	60 - 140	7	20
1,1,1-Trichloroethane	50.0	59.3		ug/Kg		119	70 - 130	1	20
1,1,2-Trichloroethane	50.0	50.5		ug/Kg		101	70 - 130	1	20
Trichloroethene	50.0	51.4		ug/Kg		103	70 - 133	1	20
Trichlorofluoromethane	50.0	59.0		ug/Kg		118	60 - 140	1	20
1,2,3-Trichloropropane	50.0	51.8		ug/Kg		104	70 - 146	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.9		ug/Kg		108	60 - 140	1	20
1,2,4-Trimethylbenzene	50.0	51.0		ug/Kg		102	70 - 130	3	20
1,3,5-Trimethylbenzene	50.0	50.9		ug/Kg		102	70 - 131	2	20
Vinyl acetate	50.0	50.4		ug/Kg		101	38 - 176	9	20
Vinyl chloride	50.0	45.0		ug/Kg		90	58 - 125	2	20
m-Xylene & p-Xylene	100	104		ug/Kg		104	70 - 146	1	20
o-Xylene	50.0	52.9		ug/Kg		106	70 - 140	0	20
2,2-Dichloropropane	50.0	57.8		ug/Kg		116	70 - 162	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-147228/6
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	98		45 - 131
1,2-Dichloroethane-d4 (Surr)	100		60 - 140
Toluene-d8 (Surr)	97		58 - 140

Lab Sample ID: LCSD 720-147228/8
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	880		ug/Kg		88	61 - 128	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	97		45 - 131
1,2-Dichloroethane-d4 (Surr)	104		60 - 140
Toluene-d8 (Surr)	96		58 - 140

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-147350/1-A
Matrix: Solid
Analysis Batch: 147348

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 147350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		10/30/13 08:46	10/31/13 02:13	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		10/30/13 08:46	10/31/13 02:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.007		0 - 1	10/30/13 08:46	10/31/13 02:13	1
p-Terphenyl	100		38 - 148	10/30/13 08:46	10/31/13 02:13	1

Lab Sample ID: LCS 720-147350/2-A
Matrix: Solid
Analysis Batch: 147348

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 147350

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			82.5	61.5		mg/Kg		75	36 - 112

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	106		38 - 148

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-147350/3-A
Matrix: Solid
Analysis Batch: 147348

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 147350

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.4	66.5		mg/Kg		81	36 - 112	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*108*		*38 - 148*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-147328/1-A
Matrix: Solid
Analysis Batch: 147399

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 147328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Arsenic	ND		1.0		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Barium	ND		0.50		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Beryllium	ND		0.10		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Cadmium	ND		0.13		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Chromium	ND		0.50		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Cobalt	ND		0.20		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Copper	ND		1.5		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Lead	ND		0.50		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Molybdenum	ND		0.50		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Nickel	ND		0.50		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Selenium	ND		1.0		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Silver	ND		0.25		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Thallium	ND		0.50		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Vanadium	ND		0.50		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Zinc	ND		1.5		mg/Kg		10/29/13 20:53	10/30/13 13:25	1

Lab Sample ID: LCS 720-147328/2-A
Matrix: Solid
Analysis Batch: 147399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147328

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	43.7		mg/Kg		87	80 - 120
Arsenic	50.0	45.1		mg/Kg		90	80 - 120
Barium	50.0	48.7		mg/Kg		97	80 - 120
Beryllium	50.0	46.0		mg/Kg		92	80 - 120
Cadmium	50.0	48.3		mg/Kg		97	80 - 120
Chromium	50.0	47.4		mg/Kg		95	80 - 120
Cobalt	50.0	46.9		mg/Kg		94	80 - 120
Copper	50.0	47.3		mg/Kg		95	80 - 120
Lead	50.0	47.5		mg/Kg		95	80 - 120
Molybdenum	50.0	48.2		mg/Kg		96	80 - 120
Nickel	50.0	47.7		mg/Kg		95	80 - 120
Selenium	50.0	44.7		mg/Kg		89	80 - 120
Silver	25.0	24.8		mg/Kg		99	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-147328/2-A
Matrix: Solid
Analysis Batch: 147399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147328

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	50.0	47.8		mg/Kg		96	80 - 120
Vanadium	50.0	47.6		mg/Kg		95	80 - 120
Zinc	50.0	45.6		mg/Kg		91	80 - 120

Lab Sample ID: LCSD 720-147328/3-A
Matrix: Solid
Analysis Batch: 147399

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 147328

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	43.7		mg/Kg		87	80 - 120	0	20
Arsenic	50.0	44.2		mg/Kg		88	80 - 120	2	20
Barium	50.0	48.3		mg/Kg		97	80 - 120	1	20
Beryllium	50.0	45.3		mg/Kg		91	80 - 120	1	20
Cadmium	50.0	47.2		mg/Kg		94	80 - 120	2	20
Chromium	50.0	46.6		mg/Kg		93	80 - 120	2	20
Cobalt	50.0	46.1		mg/Kg		92	80 - 120	2	20
Copper	50.0	46.5		mg/Kg		93	80 - 120	2	20
Lead	50.0	46.7		mg/Kg		93	80 - 120	2	20
Molybdenum	50.0	47.3		mg/Kg		95	80 - 120	2	20
Nickel	50.0	46.7		mg/Kg		93	80 - 120	2	20
Selenium	50.0	43.8		mg/Kg		88	80 - 120	2	20
Silver	25.0	24.3		mg/Kg		97	80 - 120	2	20
Thallium	50.0	46.8		mg/Kg		94	80 - 120	2	20
Vanadium	50.0	46.6		mg/Kg		93	80 - 120	2	20
Zinc	50.0	44.8		mg/Kg		90	80 - 120	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-147330/1-A
Matrix: Solid
Analysis Batch: 147390

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 147330

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		10/29/13 21:51	10/30/13 13:08	1

Lab Sample ID: LCS 720-147330/2-A
Matrix: Solid
Analysis Batch: 147390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147330

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.892		mg/Kg		107	80 - 120

Lab Sample ID: LCSD 720-147330/3-A
Matrix: Solid
Analysis Batch: 147390

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 147330

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.833	0.842		mg/Kg		101	80 - 120	6	20

GC/MS VOA

Analysis Batch: 147228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53255-5	EX4-3-SPOILS-COMP	Total/NA	Solid	8260B	147269
LCS 720-147228/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-147228/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-147228/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-147228/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-147228/4	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 147269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53255-5	EX4-3-SPOILS-COMP	Total/NA	Solid	5030B	

GC Semi VOA

Analysis Batch: 147348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53255-5	EX4-3-SPOILS-COMP	Silica Gel Cleanup	Solid	8015B	147350
LCS 720-147350/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	147350
LCSD 720-147350/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	147350
MB 720-147350/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	147350

Prep Batch: 147350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53255-5	EX4-3-SPOILS-COMP	Silica Gel Cleanup	Solid	3546	
LCS 720-147350/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-147350/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-147350/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Metals

Prep Batch: 147328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53255-5	EX4-3-SPOILS-COMP	Total/NA	Solid	3050B	
LCS 720-147328/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-147328/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-147328/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 147330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53255-5	EX4-3-SPOILS-COMP	Total/NA	Solid	7471A	
LCS 720-147330/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-147330/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-147330/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 147390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53255-5	EX4-3-SPOILS-COMP	Total/NA	Solid	7471A	147330
LCS 720-147330/2-A	Lab Control Sample	Total/NA	Solid	7471A	147330
LCSD 720-147330/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	147330
MB 720-147330/1-A	Method Blank	Total/NA	Solid	7471A	147330

Metals (Continued)

Analysis Batch: 147399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53255-5	EX4-3-SPOILS-COMP	Total/NA	Solid	6010B	147328
LCS 720-147328/2-A	Lab Control Sample	Total/NA	Solid	6010B	147328
LCSD 720-147328/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	147328
MB 720-147328/1-A	Method Blank	Total/NA	Solid	6010B	147328

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53255-1

Client Sample ID: EX4-3-SPOILS-COMP — **Lab Sample ID: 720-53255-5**
Date Collected: 10/23/13 11:00 — **Matrix: Solid**
Date Received: 10/23/13 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			147269	10/29/13 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B		1	147228	10/29/13 17:40	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			147350	10/30/13 08:46	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		5	147348	10/30/13 23:48	DCH	TAL PLS
Total/NA	Prep	7471A			147330	10/29/13 21:51	ASB	TAL PLS
Total/NA	Analysis	7471A		1	147390	10/30/13 13:27	EFH	TAL PLS
Total/NA	Prep	3050B			147328	10/29/13 20:53	CTD	TAL PLS
Total/NA	Analysis	6010B		4	147399	10/30/13 13:55	EFH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53255-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53255-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53255-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-53255-5	EX4-3-SPOILS-COMP	Solid	10/23/13 11:00	10/23/13 15:15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

Reference #: 149554

720-53255

Date 10/23/13 Page 1 of 1

10/31/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St., Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT, ~~BSM~~ JR
Attn: Accounts Payable
Phone: 925-357-7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☒ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals. ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions · ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	please composite prior to analysis; label sample EX4-3-SPOILS-COMP		Number of Containers
EX4-3-SPOILS-1	10/23/13	1100	SOIL	ICE																			X		1
EX4-3-SPOILS-2	↓	1105	↓	↓																			X		1
EX4-3-SPOILS-3		1110																					X		1
EX4-3-SPOILS-4		1115																					X		1
EX4-3-SPOILS-COMP					X		X	X					X												

Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: #39792

Sample Receipt

of Containers:
Head Space:
Temp: 7.6°C
Credit Card Y/N: If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other.

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____
8oz soil jars

See Terms and Conditions on reverse

1) Relinquished by: _____ Time: 1515
Printed Name: Vincent Tilotta Date: 10/23/13
Company: Haley & Aldrich

2) Relinquished by:
Signature _____ Time _____
Printed Name _____ Date _____
Company _____

720-53255 Chain of Custody

3) Relinquished by
Time _____
Date _____
Company _____

1) Received by: _____ Time: 1515
Printed Name: T. Bullock Date: 10/23/13
Company: TA

2) Received by:
Signature _____ Time _____
Printed Name _____ Date _____
Company _____

3) Received by:
Signature _____ Time _____
Printed Name _____ Date _____
Company _____

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-53255-1

Login Number: 53255

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-53255-2
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz

Authorized for release by:
11/5/2013 12:57:38 PM

Dimple Sharma, Project Manager I
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-53255-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-53255-2

Comments
No additional comments.

Receipt
The samples were received on 10/23/2013 3:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.6º C.

Metals
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53255-2

Client Sample ID: EX4-3-SPOILS-COMP **Lab Sample ID: 720-53255-5**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53255-2

Client Sample ID: EX4-3-SPOILS-COMP — **Lab Sample ID: 720-53255-5**
Date Collected: 10/23/13 11:00 — **Matrix: Solid**
Date Received: 10/23/13 15:15

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		11/04/13 13:39	11/04/13 17:00	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53255-2

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-147654/1-A
Matrix: Solid
Analysis Batch: 147678

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 147654

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.010		mg/L		11/04/13 13:39	11/04/13 15:56	1

Lab Sample ID: LCS 720-147654/2-A
Matrix: Solid
Analysis Batch: 147678

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 147654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.00	0.947		mg/L		95	80 - 120

Lab Sample ID: LCSD 720-147654/3-A
Matrix: Solid
Analysis Batch: 147678

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 147654

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	1.00	0.956		mg/L		96	80 - 120	1	20

Lab Sample ID: LB4 720-147595/1-C LB4
Matrix: Solid
Analysis Batch: 147678

Client Sample ID: Method Blank
Prep Type: STLC Citrate
Prep Batch: 147654

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		11/04/13 13:39	11/04/13 16:10	2.5

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53255-2

Metals

Leach Batch: 147595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53255-5	EX4-3-SPOILS-COMP	STLC Citrate	Solid	CA WET Citrate	
LB4 720-147595/1-C LB4	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 147654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53255-5	EX4-3-SPOILS-COMP	STLC Citrate	Solid	3005A	147595
LB4 720-147595/1-C LB4	Method Blank	STLC Citrate	Solid	3005A	147595
LCS 720-147654/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-147654/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-147654/1-A	Method Blank	Total Recoverable	Solid	3005A	

Analysis Batch: 147678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB4 720-147595/1-C LB4	Method Blank	STLC Citrate	Solid	6010B	147654
LCS 720-147654/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	147654
LCSD 720-147654/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	147654
MB 720-147654/1-A	Method Blank	Total Recoverable	Solid	6010B	147654

Analysis Batch: 147696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53255-5	EX4-3-SPOILS-COMP	STLC Citrate	Solid	6010B	147654

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53255-2

Client Sample ID: EX4-3-SPOILS-COMP — **Lab Sample ID: 720-53255-5**

Date Collected: 10/23/13 11:00 — **Matrix: Solid**

Date Received: 10/23/13 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			147595	11/02/13 08:32	ASB	TAL PLS
STLC Citrate	Prep	3005A			147654	11/04/13 13:39	ECT	TAL PLS
STLC Citrate	Analysis	6010B		2.5	147696	11/04/13 17:00	SLK	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53255-2

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53255-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53255-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-53255-5	EX4-3-SPOILS-COMP	Solid	10/23/13 11:00	10/23/13 15:15

720-53255-2

Sharma, Dimple

From: Tilotta, Vincent [VTilotta@haleyaldrich.com]
Sent: Friday, November 01, 2013 12:25 PM
To: Sharma, Dimple
Cc: Schwartz, James; Sebik, Joanna
Subject: RE: STLC Chromium Analysis

Hi Dimple,

Please run additional analysis for W.E.T. STLC Chromium (Cr) on a RUSH (3-Day TAT) for the following samples:

EX4-3-spoils-comp submitted on 10/23/2013.

EX3/4-1-spoils-compA submitted on 10/23/2013.

EX3/4-1-spoils-compB submitted on 10/23/2013.

Please contact me to confirm that you received this request, or if you have any questions, comments, or require additional information.

Thanks Dimple and the TAP Team!

Sincerely,

Vincent

RUSH

From: Tilotta, Vincent
Sent: Friday, November 01, 2013 7:39 AM
To: 'Sharma, Dimple'
Cc: Schwartz, James; Sebik, Joanna
Subject: STLC Lead Analysis

Good morning Dimple,

Haley & Aldrich is hereby requesting additional analysis for W.E.T. STLC Lead (Pb) on a RUSH (3-Day TAT) for the following sample:

EX10/11-2-Spoils-Comp.E, submitted on 10/7/2013.

Please contact me to confirm that you received this request, or if you have any questions, comments, or require additional information.

Thanks Dimple and the TAP Team!

Sincerely,

Vincent P. Tilotta, E.I.T.
Staff Engineer
HALEY & ALDRICH

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-53255-2

Login Number: 53255

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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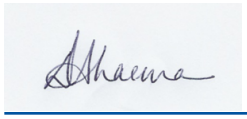
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-53257-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz



Authorized for release by:
10/31/2013 4:55:05 PM

Dimple Sharma, Project Manager I
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-1

Job ID: 720-53257-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-53257-1

Comments
No additional comments.

Receipt
The samples were received on 10/23/2013 3:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.6º C.

GC/MS VOA
Method 8260B: Internal standard (ISTD) response for the following samples was outside control limits: EX3/4-1-SPOILS-COMPA (720-53257-5), EX3/4-1-SPOILS-COMPB (720-53257-10). The sample(s) was re-analyzed with concurring results.

Method 8260B: The laboratory control sample duplicate (LCSD) for batch #147339 recovered outside control limits for the following analytes: MEK,2-HEXANONE. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: EX3/4-1-SPOILS-COMPB (720-53257-10), EX3/4-1-SPOILS-COMPA (720-53257-5).

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-1

Client Sample ID: EX3/4-1-SPOILS-COMPA — Lab Sample ID: 720-53257-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	650		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	2100		1000		mg/Kg	20		8015B	Silica Gel Cleanup
Arsenic	4.2		3.4		mg/Kg	4		6010B	Total/NA
Barium	95		1.7		mg/Kg	4		6010B	Total/NA
Chromium	61		1.7		mg/Kg	4		6010B	Total/NA
Cobalt	8.2		0.69		mg/Kg	4		6010B	Total/NA
Copper	23		5.2		mg/Kg	4		6010B	Total/NA
Lead	7.9		1.7		mg/Kg	4		6010B	Total/NA
Nickel	60		1.7		mg/Kg	4		6010B	Total/NA
Vanadium	26		1.7		mg/Kg	4		6010B	Total/NA
Zinc	39		5.2		mg/Kg	4		6010B	Total/NA
Mercury	0.043		0.0086		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX3/4-1-SPOILS-COMPB — Lab Sample ID: 720-53257-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1100		20		mg/Kg	20		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	2900		1000		mg/Kg	20		8015B	Silica Gel Cleanup
Barium	91		1.7		mg/Kg	4		6010B	Total/NA
Chromium	83		1.7		mg/Kg	4		6010B	Total/NA
Cobalt	7.3		0.68		mg/Kg	4		6010B	Total/NA
Copper	17		5.1		mg/Kg	4		6010B	Total/NA
Lead	6.8		1.7		mg/Kg	4		6010B	Total/NA
Nickel	54		1.7		mg/Kg	4		6010B	Total/NA
Vanadium	23		1.7		mg/Kg	4		6010B	Total/NA
Zinc	47		5.1		mg/Kg	4		6010B	Total/NA
Mercury	0.040		0.0097		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-1

Client Sample ID: EX3/4-1-SPOILS-COMPA — **Lab Sample ID: 720-53257-5**
Date Collected: 10/23/13 11:20 — **Matrix: Solid**
Date Received: 10/23/13 15:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Acetone	ND		49		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Benzene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Dichlorobromomethane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Bromobenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Chlorobromomethane	ND		19		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Bromoform	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Bromomethane	ND		9.7		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
2-Butanone (MEK)	ND		49		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
n-Butylbenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
sec-Butylbenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
tert-Butylbenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Carbon disulfide	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Carbon tetrachloride	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Chlorobenzene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Chloroethane	ND		9.7		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Chloroform	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Chloromethane	ND		9.7		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
2-Chlorotoluene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
4-Chlorotoluene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Chlorodibromomethane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,2-Dichlorobenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,3-Dichlorobenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,4-Dichlorobenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,3-Dichloropropane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,1-Dichloropropene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,2-Dibromo-3-Chloropropane	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Ethylene Dibromide	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Dibromomethane	ND		9.7		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,1-Dichloroethane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,2-Dichloroethane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,1-Dichloroethene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,2-Dichloropropane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Ethylbenzene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Hexachlorobutadiene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
2-Hexanone	ND		49		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Isopropylbenzene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
4-Isopropyltoluene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Methylene Chloride	ND		9.7		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Naphthalene	ND	*	9.7		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
N-Propylbenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Styrene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-1

Client Sample ID: EX3/4-1-SPOILS-COMPA
Date Collected: 10/23/13 11:20
Date Received: 10/23/13 15:15

Lab Sample ID: 720-53257-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Tetrachloroethene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Toluene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,2,3-Trichlorobenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,2,4-Trichlorobenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Trichloroethene	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Trichlorofluoromethane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,2,3-Trichloropropane	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,2,4-Trimethylbenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
1,3,5-Trimethylbenzene	ND	*	4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Vinyl acetate	ND		49		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Vinyl chloride	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Xylenes, Total	ND		9.7		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
2,2-Dichloropropane	ND		4.9		ug/Kg		10/29/13 10:00	10/29/13 18:06	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		10/29/13 10:00	10/29/13 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*78*		*45 - 131*	*10/29/13 10:00*	*10/29/13 18:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*60 - 140*	*10/29/13 10:00*	*10/29/13 18:06*	*1*
Toluene-d8 (Surr)	*84*		*58 - 140*	*10/29/13 10:00*	*10/29/13 18:06*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**650**		20		mg/Kg		10/30/13 08:46	10/31/13 11:56	20
Motor Oil Range Organics [C24-C36]	**2100**		1000		mg/Kg		10/30/13 08:46	10/31/13 11:56	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/30/13 08:46*	*10/31/13 11:56*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*10/30/13 08:46*	*10/31/13 11:56*	*20*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7		mg/Kg		10/29/13 20:53	10/30/13 13:59	4
Arsenic	**4.2**		3.4		mg/Kg		10/29/13 20:53	10/30/13 13:59	4
Barium	**95**		1.7		mg/Kg		10/29/13 20:53	10/30/13 13:59	4
Beryllium	ND		0.34		mg/Kg		10/29/13 20:53	10/30/13 13:59	4
Cadmium	ND		0.43		mg/Kg		10/29/13 20:53	10/30/13 13:59	4
Chromium	**61**		1.7		mg/Kg		10/29/13 20:53	10/30/13 13:59	4
Cobalt	**8.2**		0.69		mg/Kg		10/29/13 20:53	10/30/13 13:59	4
Copper	**23**		5.2		mg/Kg		10/29/13 20:53	10/30/13 13:59	4
Lead	**7.9**		1.7		mg/Kg		10/29/13 20:53	10/30/13 13:59	4
Molybdenum	ND		1.7		mg/Kg		10/29/13 20:53	10/30/13 13:59	4
Nickel	**60**		1.7		mg/Kg		10/29/13 20:53	10/30/13 13:59	4
Selenium	ND		3.4		mg/Kg		10/29/13 20:53	10/30/13 13:59	4
Silver	ND		0.86		mg/Kg		10/29/13 20:53	10/30/13 13:59	4
Thallium	ND		1.7		mg/Kg		10/29/13 20:53	10/30/13 13:59	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-1

Client Sample ID: EX3/4-1-SPOILS-COMPA
Date Collected: 10/23/13 11:20
Date Received: 10/23/13 15:15

Lab Sample ID: 720-53257-5
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	26		1.7		mg/Kg		10/29/13 20:53	10/30/13 13:59	4
Zinc	39		5.2		mg/Kg		10/29/13 20:53	10/30/13 13:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.0086		mg/Kg		10/29/13 21:51	10/30/13 13:29	1

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-1

Client Sample ID: EX3/4-1-SPOILS-COMPB — **Lab Sample ID: 720-53257-10**
Date Collected: 10/23/13 11:40 — **Matrix: Solid**
Date Received: 10/23/13 15:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Acetone	ND		50		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Benzene	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Dichlorobromomethane	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Bromobenzene	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Chlorobromomethane	ND		20		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Bromoform	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Bromomethane	ND		10		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
2-Butanone (MEK)	ND		50		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
n-Butylbenzene	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
sec-Butylbenzene	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
tert-Butylbenzene	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Carbon disulfide	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Carbon tetrachloride	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Chlorobenzene	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Chloroethane	ND		10		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Chloroform	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Chloromethane	ND		10		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
2-Chlorotoluene	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
4-Chlorotoluene	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Chlorodibromomethane	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,2-Dichlorobenzene	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,3-Dichlorobenzene	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,4-Dichlorobenzene	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,3-Dichloropropane	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,1-Dichloropropene	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,2-Dibromo-3-Chloropropane	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Ethylene Dibromide	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Dibromomethane	ND		10		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Dichlorodifluoromethane	ND		10		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,1-Dichloroethane	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,2-Dichloroethane	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,1-Dichloroethene	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,2-Dichloropropane	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Ethylbenzene	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Hexachlorobutadiene	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
2-Hexanone	ND		50		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Isopropylbenzene	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
4-Isopropyltoluene	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Methylene Chloride	ND		10		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Naphthalene	ND	*	10		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
N-Propylbenzene	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Styrene	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1

Client Sample ID: EX3/4-1-SPOILS-COMPB
Date Collected: 10/23/13 11:40
Date Received: 10/23/13 15:15

Lab Sample ID: 720-53257-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Tetrachloroethene	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Toluene	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,2,3-Trichlorobenzene	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,2,4-Trichlorobenzene	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Trichloroethene	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Trichlorofluoromethane	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,2,3-Trichloropropane	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,2,4-Trimethylbenzene	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
1,3,5-Trimethylbenzene	ND	*	5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Vinyl acetate	ND		50		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Vinyl chloride	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Xylenes, Total	ND		10		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
2,2-Dichloropropane	ND		5.0		ug/Kg		10/29/13 10:00	10/29/13 18:32	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		10/29/13 10:00	10/29/13 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*74*		*45 - 131*	*10/29/13 10:00*	*10/29/13 18:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*122*		*60 - 140*	*10/29/13 10:00*	*10/29/13 18:32*	*1*
Toluene-d8 (Surr)	*63*		*58 - 140*	*10/29/13 10:00*	*10/29/13 18:32*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1100**		20		mg/Kg		10/30/13 08:46	10/31/13 12:25	20
Motor Oil Range Organics [C24-C36]	**2900**		1000		mg/Kg		10/30/13 08:46	10/31/13 12:25	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/30/13 08:46*	*10/31/13 12:25*	*20*
p-Terphenyl	*0*	*X D*	*38 - 148*	*10/30/13 08:46*	*10/31/13 12:25*	*20*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7		mg/Kg		10/29/13 20:53	10/30/13 14:03	4
Arsenic	ND		3.4		mg/Kg		10/29/13 20:53	10/30/13 14:03	4
Barium	**91**		1.7		mg/Kg		10/29/13 20:53	10/30/13 14:03	4
Beryllium	ND		0.34		mg/Kg		10/29/13 20:53	10/30/13 14:03	4
Cadmium	ND		0.43		mg/Kg		10/29/13 20:53	10/30/13 14:03	4
Chromium	**83**		1.7		mg/Kg		10/29/13 20:53	10/30/13 14:03	4
Cobalt	**7.3**		0.68		mg/Kg		10/29/13 20:53	10/30/13 14:03	4
Copper	**17**		5.1		mg/Kg		10/29/13 20:53	10/30/13 14:03	4
Lead	**6.8**		1.7		mg/Kg		10/29/13 20:53	10/30/13 14:03	4
Molybdenum	ND		1.7		mg/Kg		10/29/13 20:53	10/30/13 14:03	4
Nickel	**54**		1.7		mg/Kg		10/29/13 20:53	10/30/13 14:03	4
Selenium	ND		3.4		mg/Kg		10/29/13 20:53	10/30/13 14:03	4
Silver	ND		0.85		mg/Kg		10/29/13 20:53	10/30/13 14:03	4
Thallium	ND		1.7		mg/Kg		10/29/13 20:53	10/30/13 14:03	4

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-1

Client Sample ID: EX3/4-1-SPOILS-COMPB
Date Collected: 10/23/13 11:40
Date Received: 10/23/13 15:15

Lab Sample ID: 720-53257-10
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	23		1.7		mg/Kg		10/29/13 20:53	10/30/13 14:03	4
Zinc	47		5.1		mg/Kg		10/29/13 20:53	10/30/13 14:03	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.0097		mg/Kg		10/29/13 21:51	10/30/13 13:37	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-147228/4
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			10/29/13 10:20	1
Acetone	ND		50		ug/Kg			10/29/13 10:20	1
Benzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Dichlorobromomethane	ND		5.0		ug/Kg			10/29/13 10:20	1
Bromobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Chlorobromomethane	ND		20		ug/Kg			10/29/13 10:20	1
Bromoform	ND		5.0		ug/Kg			10/29/13 10:20	1
Bromomethane	ND		10		ug/Kg			10/29/13 10:20	1
2-Butanone (MEK)	ND		50		ug/Kg			10/29/13 10:20	1
n-Butylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
sec-Butylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
tert-Butylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Carbon disulfide	ND		5.0		ug/Kg			10/29/13 10:20	1
Carbon tetrachloride	ND		5.0		ug/Kg			10/29/13 10:20	1
Chlorobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Chloroethane	ND		10		ug/Kg			10/29/13 10:20	1
Chloroform	ND		5.0		ug/Kg			10/29/13 10:20	1
Chloromethane	ND		10		ug/Kg			10/29/13 10:20	1
2-Chlorotoluene	ND		5.0		ug/Kg			10/29/13 10:20	1
4-Chlorotoluene	ND		5.0		ug/Kg			10/29/13 10:20	1
Chlorodibromomethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,3-Dichloropropane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1-Dichloropropene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			10/29/13 10:20	1
Ethylene Dibromide	ND		5.0		ug/Kg			10/29/13 10:20	1
Dibromomethane	ND		10		ug/Kg			10/29/13 10:20	1
Dichlorodifluoromethane	ND		10		ug/Kg			10/29/13 10:20	1
1,1-Dichloroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2-Dichloroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1-Dichloroethene	ND		5.0		ug/Kg			10/29/13 10:20	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			10/29/13 10:20	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2-Dichloropropane	ND		5.0		ug/Kg			10/29/13 10:20	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			10/29/13 10:20	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			10/29/13 10:20	1
Ethylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Hexachlorobutadiene	ND		5.0		ug/Kg			10/29/13 10:20	1
2-Hexanone	ND		50		ug/Kg			10/29/13 10:20	1
Isopropylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
4-Isopropyltoluene	ND		5.0		ug/Kg			10/29/13 10:20	1
Methylene Chloride	ND		10		ug/Kg			10/29/13 10:20	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			10/29/13 10:20	1
Naphthalene	ND		10		ug/Kg			10/29/13 10:20	1
N-Propylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Styrene	ND		5.0		ug/Kg			10/29/13 10:20	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-147228/4
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
Tetrachloroethene	ND		5.0		ug/Kg			10/29/13 10:20	1
Toluene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
Trichloroethene	ND		5.0		ug/Kg			10/29/13 10:20	1
Trichlorofluoromethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Vinyl acetate	ND		50		ug/Kg			10/29/13 10:20	1
Vinyl chloride	ND		5.0		ug/Kg			10/29/13 10:20	1
Xylenes, Total	ND		10		ug/Kg			10/29/13 10:20	1
2,2-Dichloropropane	ND		5.0		ug/Kg			10/29/13 10:20	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			10/29/13 10:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*45 - 131*		*10/29/13 10:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*10/29/13 10:20*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*		*10/29/13 10:20*	*1*

Lab Sample ID: LCS 720-147228/5
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	55.7		ug/Kg		111	70 - 144
Acetone	250	225		ug/Kg		90	30 - 162
Benzene	50.0	48.5		ug/Kg		97	70 - 130
Dichlorobromomethane	50.0	54.1		ug/Kg		108	70 - 131
Bromobenzene	50.0	49.7		ug/Kg		99	70 - 130
Chlorobromomethane	50.0	52.4		ug/Kg		105	70 - 130
Bromoform	50.0	56.4		ug/Kg		113	59 - 158
Bromomethane	50.0	54.4		ug/Kg		109	59 - 132
2-Butanone (MEK)	250	261		ug/Kg		104	53 - 124
n-Butylbenzene	50.0	48.9		ug/Kg		98	70 - 142
sec-Butylbenzene	50.0	48.3		ug/Kg		97	70 - 136
tert-Butylbenzene	50.0	49.4		ug/Kg		99	70 - 130
Carbon disulfide	50.0	53.0		ug/Kg		106	60 - 140
Carbon tetrachloride	50.0	60.8		ug/Kg		122	70 - 138
Chlorobenzene	50.0	49.8		ug/Kg		100	70 - 130
Chloroethane	50.0	47.9		ug/Kg		96	65 - 130
Chloroform	50.0	53.0		ug/Kg		106	77 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-147228/5
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	43.5		ug/Kg		87	55 - 140
2-Chlorotoluene	50.0	49.5		ug/Kg		99	70 - 138
4-Chlorotoluene	50.0	49.0		ug/Kg		98	70 - 136
Chlorodibromomethane	50.0	57.0		ug/Kg		114	70 - 146
1,2-Dichlorobenzene	50.0	48.7		ug/Kg		97	70 - 130
1,3-Dichlorobenzene	50.0	49.3		ug/Kg		99	70 - 131
1,4-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 130
1,3-Dichloropropane	50.0	51.8		ug/Kg		104	70 - 140
1,1-Dichloropropene	50.0	54.9		ug/Kg		110	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.5		ug/Kg		101	60 - 145
Ethylene Dibromide	50.0	55.5		ug/Kg		111	70 - 140
Dibromomethane	50.0	55.1		ug/Kg		110	70 - 139
Dichlorodifluoromethane	50.0	39.7		ug/Kg		79	37 - 158
1,1-Dichloroethane	50.0	50.4		ug/Kg		101	70 - 130
1,2-Dichloroethane	50.0	54.9		ug/Kg		110	70 - 130
1,1-Dichloroethene	50.0	48.6		ug/Kg		97	76 - 122
cis-1,2-Dichloroethene	50.0	52.0		ug/Kg		104	70 - 138
trans-1,2-Dichloroethene	50.0	47.6		ug/Kg		95	67 - 130
1,2-Dichloropropane	50.0	45.9		ug/Kg		92	73 - 127
cis-1,3-Dichloropropene	50.0	52.9		ug/Kg		106	68 - 147
trans-1,3-Dichloropropene	50.0	55.6		ug/Kg		111	70 - 136
Ethylbenzene	50.0	50.3		ug/Kg		101	80 - 137
Hexachlorobutadiene	50.0	46.5		ug/Kg		93	70 - 132
2-Hexanone	250	236		ug/Kg		94	44 - 133
Isopropylbenzene	50.0	52.5		ug/Kg		105	88 - 128
4-Isopropyltoluene	50.0	49.5		ug/Kg		99	70 - 133
Methylene Chloride	50.0	41.4		ug/Kg		83	70 - 134
4-Methyl-2-pentanone (MIBK)	250	236		ug/Kg		95	60 - 160
Naphthalene	50.0	46.1		ug/Kg		92	60 - 147
N-Propylbenzene	50.0	48.9		ug/Kg		98	70 - 130
Styrene	50.0	51.3		ug/Kg		103	70 - 130
1,1,1,2-Tetrachloroethane	50.0	52.8		ug/Kg		106	70 - 130
1,1,2,2-Tetrachloroethane	50.0	46.1		ug/Kg		92	70 - 146
Tetrachloroethene	50.0	54.8		ug/Kg		110	70 - 132
Toluene	50.0	49.5		ug/Kg		99	80 - 128
1,2,3-Trichlorobenzene	50.0	44.6		ug/Kg		89	60 - 140
1,2,4-Trichlorobenzene	50.0	47.1		ug/Kg		94	60 - 140
1,1,1-Trichloroethane	50.0	60.1		ug/Kg		120	70 - 130
1,1,2-Trichloroethane	50.0	51.1		ug/Kg		102	70 - 130
Trichloroethene	50.0	50.8		ug/Kg		102	70 - 133
Trichlorofluoromethane	50.0	59.7		ug/Kg		119	60 - 140
1,2,3-Trichloropropane	50.0	52.1		ug/Kg		104	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.4		ug/Kg		109	60 - 140
1,2,4-Trimethylbenzene	50.0	49.5		ug/Kg		99	70 - 130
1,3,5-Trimethylbenzene	50.0	49.9		ug/Kg		100	70 - 131
Vinyl acetate	50.0	55.0		ug/Kg		110	38 - 176
Vinyl chloride	50.0	45.7		ug/Kg		91	58 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-147228/5
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	100	103		ug/Kg		103	70 - 146
o-Xylene	50.0	52.8		ug/Kg		106	70 - 140
2,2-Dichloropropane	50.0	58.1		ug/Kg		116	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: LCS 720-147228/7
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	908		ug/Kg		91	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: LCSD 720-147228/6
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	53.2		ug/Kg		106	70 - 144	5	20
Acetone	250	207		ug/Kg		83	30 - 162	8	30
Benzene	50.0	48.1		ug/Kg		96	70 - 130	1	20
Dichlorobromomethane	50.0	53.9		ug/Kg		108	70 - 131	0	20
Bromobenzene	50.0	50.1		ug/Kg		100	70 - 130	1	20
Chlorobromomethane	50.0	52.2		ug/Kg		104	70 - 130	1	20
Bromoform	50.0	56.6		ug/Kg		113	59 - 158	0	20
Bromomethane	50.0	51.7		ug/Kg		103	59 - 132	5	20
2-Butanone (MEK)	250	247		ug/Kg		99	53 - 124	6	20
n-Butylbenzene	50.0	51.1		ug/Kg		102	70 - 142	4	20
sec-Butylbenzene	50.0	49.8		ug/Kg		100	70 - 136	3	20
tert-Butylbenzene	50.0	50.7		ug/Kg		101	70 - 130	3	20
Carbon disulfide	50.0	52.3		ug/Kg		105	60 - 140	1	20
Carbon tetrachloride	50.0	60.6		ug/Kg		121	70 - 138	0	20
Chlorobenzene	50.0	50.2		ug/Kg		100	70 - 130	1	20
Chloroethane	50.0	46.5		ug/Kg		93	65 - 130	3	20
Chloroform	50.0	52.4		ug/Kg		105	77 - 127	1	20
Chloromethane	50.0	40.6		ug/Kg		81	55 - 140	7	20
2-Chlorotoluene	50.0	50.1		ug/Kg		100	70 - 138	1	20
4-Chlorotoluene	50.0	50.0		ug/Kg		100	70 - 136	2	20
Chlorodibromomethane	50.0	56.2		ug/Kg		112	70 - 146	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-147228/6
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	50.5		ug/Kg		101	70 - 130	4	20
1,3-Dichlorobenzene	50.0	51.9		ug/Kg		104	70 - 131	5	20
1,4-Dichlorobenzene	50.0	52.4		ug/Kg		105	70 - 130	4	20
1,3-Dichloropropane	50.0	50.8		ug/Kg		102	70 - 140	2	20
1,1-Dichloropropene	50.0	54.4		ug/Kg		109	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	50.0	50.1		ug/Kg		100	60 - 145	1	20
Ethylene Dibromide	50.0	53.7		ug/Kg		107	70 - 140	3	20
Dibromomethane	50.0	53.7		ug/Kg		107	70 - 139	3	20
Dichlorodifluoromethane	50.0	38.4		ug/Kg		77	37 - 158	3	20
1,1-Dichloroethane	50.0	50.0		ug/Kg		100	70 - 130	1	20
1,2-Dichloroethane	50.0	53.9		ug/Kg		108	70 - 130	2	20
1,1-Dichloroethene	50.0	47.6		ug/Kg		95	76 - 122	2	20
cis-1,2-Dichloroethene	50.0	51.6		ug/Kg		103	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	46.9		ug/Kg		94	67 - 130	1	20
1,2-Dichloropropane	50.0	46.1		ug/Kg		92	73 - 127	0	20
cis-1,3-Dichloropropene	50.0	52.0		ug/Kg		104	68 - 147	2	20
trans-1,3-Dichloropropene	50.0	55.6		ug/Kg		111	70 - 136	0	20
Ethylbenzene	50.0	50.8		ug/Kg		102	80 - 137	1	20
Hexachlorobutadiene	50.0	49.9		ug/Kg		100	70 - 132	7	20
2-Hexanone	250	210		ug/Kg		84	44 - 133	12	20
Isopropylbenzene	50.0	53.0		ug/Kg		106	88 - 128	1	20
4-Isopropyltoluene	50.0	51.4		ug/Kg		103	70 - 133	4	20
Methylene Chloride	50.0	42.0		ug/Kg		84	70 - 134	2	20
4-Methyl-2-pentanone (MIBK)	250	215		ug/Kg		86	60 - 160	9	20
Naphthalene	50.0	47.9		ug/Kg		96	60 - 147	4	20
N-Propylbenzene	50.0	49.4		ug/Kg		99	70 - 130	1	20
Styrene	50.0	52.5		ug/Kg		105	70 - 130	2	20
1,1,1,2-Tetrachloroethane	50.0	53.3		ug/Kg		107	70 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	45.6		ug/Kg		91	70 - 146	1	20
Tetrachloroethene	50.0	54.5		ug/Kg		109	70 - 132	1	20
Toluene	50.0	50.7		ug/Kg		101	80 - 128	2	20
1,2,3-Trichlorobenzene	50.0	47.7		ug/Kg		95	60 - 140	7	20
1,2,4-Trichlorobenzene	50.0	50.5		ug/Kg		101	60 - 140	7	20
1,1,1-Trichloroethane	50.0	59.3		ug/Kg		119	70 - 130	1	20
1,1,2-Trichloroethane	50.0	50.5		ug/Kg		101	70 - 130	1	20
Trichloroethene	50.0	51.4		ug/Kg		103	70 - 133	1	20
Trichlorofluoromethane	50.0	59.0		ug/Kg		118	60 - 140	1	20
1,2,3-Trichloropropane	50.0	51.8		ug/Kg		104	70 - 146	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.9		ug/Kg		108	60 - 140	1	20
1,2,4-Trimethylbenzene	50.0	51.0		ug/Kg		102	70 - 130	3	20
1,3,5-Trimethylbenzene	50.0	50.9		ug/Kg		102	70 - 131	2	20
Vinyl acetate	50.0	50.4		ug/Kg		101	38 - 176	9	20
Vinyl chloride	50.0	45.0		ug/Kg		90	58 - 125	2	20
m-Xylene & p-Xylene	100	104		ug/Kg		104	70 - 146	1	20
o-Xylene	50.0	52.9		ug/Kg		106	70 - 140	0	20
2,2-Dichloropropane	50.0	57.8		ug/Kg		116	70 - 162	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-147228/6
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: LCSD 720-147228/8
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	880		ug/Kg		88	61 - 128	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*96*		*58 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-147350/1-A
Matrix: Solid
Analysis Batch: 147340

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 147350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		10/30/13 08:46	10/31/13 01:42	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		10/30/13 08:46	10/31/13 01:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.0009*		*0 - 1*	*10/30/13 08:46*	*10/31/13 01:42*	*1*
p-Terphenyl	*113*		*38 - 148*	*10/30/13 08:46*	*10/31/13 01:42*	*1*

Lab Sample ID: MB 720-147350/1-A
Matrix: Solid
Analysis Batch: 147348

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 147350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		10/30/13 08:46	10/31/13 02:13	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		10/30/13 08:46	10/31/13 02:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.007*		*0 - 1*	*10/30/13 08:46*	*10/31/13 02:13*	*1*
p-Terphenyl	*100*		*38 - 148*	*10/30/13 08:46*	*10/31/13 02:13*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 720-147350/2-A
Matrix: Solid
Analysis Batch: 147348

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 147350

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.5	61.5		mg/Kg		75	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*106*		*38 - 148*

Lab Sample ID: LCSD 720-147350/3-A
Matrix: Solid
Analysis Batch: 147348

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 147350

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.4	66.5		mg/Kg		81	36 - 112	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*108*		*38 - 148*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-147328/1-A
Matrix: Solid
Analysis Batch: 147399

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 147328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Arsenic	ND		1.0		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Barium	ND		0.50		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Beryllium	ND		0.10		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Cadmium	ND		0.13		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Chromium	ND		0.50		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Cobalt	ND		0.20		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Copper	ND		1.5		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Lead	ND		0.50		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Molybdenum	ND		0.50		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Nickel	ND		0.50		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Selenium	ND		1.0		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Silver	ND		0.25		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Thallium	ND		0.50		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Vanadium	ND		0.50		mg/Kg		10/29/13 20:53	10/30/13 13:25	1
Zinc	ND		1.5		mg/Kg		10/29/13 20:53	10/30/13 13:25	1

Lab Sample ID: LCS 720-147328/2-A
Matrix: Solid
Analysis Batch: 147399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147328

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Antimony			50.0	43.7		mg/Kg		87	80 - 120		
Arsenic			50.0	45.1		mg/Kg		90	80 - 120		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-147328/2-A
Matrix: Solid
Analysis Batch: 147399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147328

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	50.0	48.7		mg/Kg		97	80 - 120
Beryllium	50.0	46.0		mg/Kg		92	80 - 120
Cadmium	50.0	48.3		mg/Kg		97	80 - 120
Chromium	50.0	47.4		mg/Kg		95	80 - 120
Cobalt	50.0	46.9		mg/Kg		94	80 - 120
Copper	50.0	47.3		mg/Kg		95	80 - 120
Lead	50.0	47.5		mg/Kg		95	80 - 120
Molybdenum	50.0	48.2		mg/Kg		96	80 - 120
Nickel	50.0	47.7		mg/Kg		95	80 - 120
Selenium	50.0	44.7		mg/Kg		89	80 - 120
Silver	25.0	24.8		mg/Kg		99	80 - 120
Thallium	50.0	47.8		mg/Kg		96	80 - 120
Vanadium	50.0	47.6		mg/Kg		95	80 - 120
Zinc	50.0	45.6		mg/Kg		91	80 - 120

Lab Sample ID: LCSD 720-147328/3-A
Matrix: Solid
Analysis Batch: 147399

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 147328

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	43.7		mg/Kg		87	80 - 120	0	20
Arsenic	50.0	44.2		mg/Kg		88	80 - 120	2	20
Barium	50.0	48.3		mg/Kg		97	80 - 120	1	20
Beryllium	50.0	45.3		mg/Kg		91	80 - 120	1	20
Cadmium	50.0	47.2		mg/Kg		94	80 - 120	2	20
Chromium	50.0	46.6		mg/Kg		93	80 - 120	2	20
Cobalt	50.0	46.1		mg/Kg		92	80 - 120	2	20
Copper	50.0	46.5		mg/Kg		93	80 - 120	2	20
Lead	50.0	46.7		mg/Kg		93	80 - 120	2	20
Molybdenum	50.0	47.3		mg/Kg		95	80 - 120	2	20
Nickel	50.0	46.7		mg/Kg		93	80 - 120	2	20
Selenium	50.0	43.8		mg/Kg		88	80 - 120	2	20
Silver	25.0	24.3		mg/Kg		97	80 - 120	2	20
Thallium	50.0	46.8		mg/Kg		94	80 - 120	2	20
Vanadium	50.0	46.6		mg/Kg		93	80 - 120	2	20
Zinc	50.0	44.8		mg/Kg		90	80 - 120	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-147330/1-A
Matrix: Solid
Analysis Batch: 147390

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 147330

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		10/29/13 21:51	10/30/13 13:08	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-147330/2-A
Matrix: Solid
Analysis Batch: 147390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147330

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.892		mg/Kg		107	80 - 120		

Lab Sample ID: LCSD 720-147330/3-A
Matrix: Solid
Analysis Batch: 147390

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 147330

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.833	0.842		mg/Kg		101	80 - 120	6	20

GC/MS VOA

Analysis Batch: 147228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53257-5	EX3/4-1-SPOILS-COMPA	Total/NA	Solid	8260B	147269
720-53257-10	EX3/4-1-SPOILS-COMPB	Total/NA	Solid	8260B	147269
LCS 720-147228/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-147228/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-147228/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-147228/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-147228/4	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 147269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53257-5	EX3/4-1-SPOILS-COMPA	Total/NA	Solid	5030B	
720-53257-10	EX3/4-1-SPOILS-COMPB	Total/NA	Solid	5030B	

GC Semi VOA

Analysis Batch: 147340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-147350/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	147350

Analysis Batch: 147348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-147350/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	147350
LCSD 720-147350/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	147350
MB 720-147350/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	147350

Prep Batch: 147350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53257-5	EX3/4-1-SPOILS-COMPA	Silica Gel Cleanup	Solid	3546	
720-53257-10	EX3/4-1-SPOILS-COMPB	Silica Gel Cleanup	Solid	3546	
LCS 720-147350/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-147350/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-147350/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 147434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53257-5	EX3/4-1-SPOILS-COMPA	Silica Gel Cleanup	Solid	8015B	147350
720-53257-10	EX3/4-1-SPOILS-COMPB	Silica Gel Cleanup	Solid	8015B	147350

Metals

Prep Batch: 147328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53257-5	EX3/4-1-SPOILS-COMPA	Total/NA	Solid	3050B	
720-53257-10	EX3/4-1-SPOILS-COMPB	Total/NA	Solid	3050B	
LCS 720-147328/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-147328/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-147328/1-A	Method Blank	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 147330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53257-5	EX3/4-1-SPOILS-COMPA	Total/NA	Solid	7471A	
720-53257-10	EX3/4-1-SPOILS-COMPB	Total/NA	Solid	7471A	
LCS 720-147330/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-147330/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-147330/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 147390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53257-5	EX3/4-1-SPOILS-COMPA	Total/NA	Solid	7471A	147330
720-53257-10	EX3/4-1-SPOILS-COMPB	Total/NA	Solid	7471A	147330
LCS 720-147330/2-A	Lab Control Sample	Total/NA	Solid	7471A	147330
LCSD 720-147330/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	147330
MB 720-147330/1-A	Method Blank	Total/NA	Solid	7471A	147330

Analysis Batch: 147399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53257-5	EX3/4-1-SPOILS-COMPA	Total/NA	Solid	6010B	147328
720-53257-10	EX3/4-1-SPOILS-COMPB	Total/NA	Solid	6010B	147328
LCS 720-147328/2-A	Lab Control Sample	Total/NA	Solid	6010B	147328
LCSD 720-147328/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	147328
MB 720-147328/1-A	Method Blank	Total/NA	Solid	6010B	147328

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-1

Client Sample ID: EX3/4-1-SPOILS-COMPA

Lab Sample ID: 720-53257-5

Date Collected: 10/23/13 11:20

Matrix: Solid

Date Received: 10/23/13 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			147269	10/29/13 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B		1	147228	10/29/13 18:06	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			147350	10/30/13 08:46	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	147434	10/31/13 11:56	JL	TAL PLS
Total/NA	Prep	7471A			147330	10/29/13 21:51	ASB	TAL PLS
Total/NA	Analysis	7471A		1	147390	10/30/13 13:29	EFH	TAL PLS
Total/NA	Prep	3050B			147328	10/29/13 20:53	CTD	TAL PLS
Total/NA	Analysis	6010B		4	147399	10/30/13 13:59	EFH	TAL PLS

Client Sample ID: EX3/4-1-SPOILS-COMPB

Lab Sample ID: 720-53257-10

Date Collected: 10/23/13 11:40

Matrix: Solid

Date Received: 10/23/13 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			147269	10/29/13 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B		1	147228	10/29/13 18:32	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			147350	10/30/13 08:46	MRP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		20	147434	10/31/13 12:25	JL	TAL PLS
Total/NA	Prep	7471A			147330	10/29/13 21:51	ASB	TAL PLS
Total/NA	Analysis	7471A		1	147390	10/30/13 13:37	EFH	TAL PLS
Total/NA	Prep	3050B			147328	10/29/13 20:53	CTD	TAL PLS
Total/NA	Analysis	6010B		4	147399	10/30/13 14:03	EFH	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-53257-5	EX3/4-1-SPOILS-COMPA	Solid	10/23/13 11:20	10/23/13 15:15
720-53257-10	EX3/4-1-SPOILS-COMPB	Solid	10/23/13 11:40	10/23/13 15:15

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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-53257

Reference #: 149556

Date 10/23/13 Page 1 of 1

10/31/2013

Report To

Attn. James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St. Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT, ~~BSM~~ JR
Attn: Accounts Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) — X EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: X Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B X Silica Gel X Diesel X Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease ☐ Petroleum (EPA 1664/9071) ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Please composite prior to analysis, label comp. sample EX3/4-1-SPOILS-COMPA	Please composite prior to analysis, label comp. sample EX3/4-1-SPOILS-COMPB	Number of Containers
EX3/4-1-SPOILS-1	10-23-13	1120	SOIL	ICE																				X		1
EX3/4-1-SPOILS-2	10-23-13	1125																						X		1
EX3/4-1-SPOILS-3		1130																						X		1
EX3/4-1-SPOILS-4		1135																						X		1
EX3/4-1-SPOILS-5		1140																							X	1
EX3/4-1-SPOILS-6		1145																							X	1
EX3/4-1-SPOILS-7		1150																							X	1
EX3/4-1-SPOILS-8		1155																							X	1
EX3/4-1-SPOILS-COMPA					X		X	X					X													
EX3/4-1-SPOILS-COMPB					X		X	X					X													

Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: #39792

Sample Receipt

of Containers:
Head Space:
Temp: 7.6°C
Credit Card Y/N: If yes, please call with payment information ASAP

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other

Report ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID
Box soil jars

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1515	Signature:	Time:
Printed Name: Vincent Tilotta Date: 10/23	Printed Name:	Date:
Company: Haley & Aldrich	Company:	Company:

720-53257 Chain of Custody

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1515	Signature: Time:	Signature: Time:
Printed Name: T. Bellan Date: 10/23/13	Printed Name: Date:	Printed Name: Date:
Company: TA	Company:	Company:

Rev 10/2012

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Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-53257-1

Login Number: 53257

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-53257-2
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz

Authorized for release by:
11/5/2013 1:01:25 PM

Dimple Sharma, Project Manager I
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-53257-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-53257-2

Comments
No additional comments.

Receipt
The samples were received on 10/23/2013 3:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.6º C.

Metals
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-2

Client Sample ID: EX3/4-1-SPOILS-COMPA — Lab Sample ID: 720-53257-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.28		0.25		mg/L	2.5		6010B	STLC Citrate

Client Sample ID: EX3/4-1-SPOILS-COMPB — Lab Sample ID: 720-53257-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.33		0.25		mg/L	2.5		6010B	STLC Citrate

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-2

Client Sample ID: EX3/4-1-SPOILS-COMPA — **Lab Sample ID: 720-53257-5**

Date Collected: 10/23/13 11:20 — **Matrix: Solid**

Date Received: 10/23/13 15:15

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.28		0.25		mg/L		11/04/13 13:39	11/04/13 17:14	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-2

Client Sample ID: EX3/4-1-SPOILS-COMPB — **Lab Sample ID: 720-53257-10**

Date Collected: 10/23/13 11:40 — **Matrix: Solid**

Date Received: 10/23/13 15:15

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.33		0.25		mg/L		11/04/13 13:39	11/04/13 17:19	2.5

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-2

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-147654/1-A
Matrix: Solid
Analysis Batch: 147678

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 147654

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.010		mg/L		11/04/13 13:39	11/04/13 15:56	1

Lab Sample ID: LCS 720-147654/2-A
Matrix: Solid
Analysis Batch: 147678

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 147654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.00	0.947		mg/L		95	80 - 120

Lab Sample ID: LCSD 720-147654/3-A
Matrix: Solid
Analysis Batch: 147678

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 147654

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	1.00	0.956		mg/L		96	80 - 120	1	20

Lab Sample ID: LB4 720-147595/1-C LB4
Matrix: Solid
Analysis Batch: 147678

Client Sample ID: Method Blank
Prep Type: STLC Citrate
Prep Batch: 147654

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.25		mg/L		11/04/13 13:39	11/04/13 16:10	2.5

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-2

Metals

Leach Batch: 147595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53257-5	EX3/4-1-SPOILS-COMPA	STLC Citrate	Solid	CA WET Citrate	
720-53257-10	EX3/4-1-SPOILS-COMPB	STLC Citrate	Solid	CA WET Citrate	
LB4 720-147595/1-C LB4	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 147654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53257-5	EX3/4-1-SPOILS-COMPA	STLC Citrate	Solid	3005A	147595
720-53257-10	EX3/4-1-SPOILS-COMPB	STLC Citrate	Solid	3005A	147595
LB4 720-147595/1-C LB4	Method Blank	STLC Citrate	Solid	3005A	147595
LCS 720-147654/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-147654/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-147654/1-A	Method Blank	Total Recoverable	Solid	3005A	

Analysis Batch: 147678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB4 720-147595/1-C LB4	Method Blank	STLC Citrate	Solid	6010B	147654
LCS 720-147654/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	147654
LCSD 720-147654/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	147654
MB 720-147654/1-A	Method Blank	Total Recoverable	Solid	6010B	147654

Analysis Batch: 147696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53257-5	EX3/4-1-SPOILS-COMPA	STLC Citrate	Solid	6010B	147654
720-53257-10	EX3/4-1-SPOILS-COMPB	STLC Citrate	Solid	6010B	147654

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-2

Client Sample ID: EX3/4-1-SPOILS-COMPA

Lab Sample ID: 720-53257-5

Date Collected: 10/23/13 11:20

Matrix: Solid

Date Received: 10/23/13 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			147595	11/02/13 08:32	ASB	TAL PLS
STLC Citrate	Prep	3005A			147654	11/04/13 13:39	ECT	TAL PLS
STLC Citrate	Analysis	6010B		2.5	147696	11/04/13 17:14	SLK	TAL PLS

Client Sample ID: EX3/4-1-SPOILS-COMPB

Lab Sample ID: 720-53257-10

Date Collected: 10/23/13 11:40

Matrix: Solid

Date Received: 10/23/13 15:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			147595	11/02/13 08:32	ASB	TAL PLS
STLC Citrate	Prep	3005A			147654	11/04/13 13:39	ECT	TAL PLS
STLC Citrate	Analysis	6010B		2.5	147696	11/04/13 17:19	SLK	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-2

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-53257-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-53257-5	EX3/4-1-SPOILS-COMPA	Solid	10/23/13 11:20	10/23/13 15:15
720-53257-10	EX3/4-1-SPOILS-COMPB	Solid	10/23/13 11:40	10/23/13 15:15

Sharma, Dimple 720-53257-2

From: Tilotta, Vincent [VTilotta@haleyaldrich.com]
Sent: Friday, November 01, 2013 12:25 PM
To: Sharma, Dimple
Cc: Schwartz, James; Sebik, Joanna
Subject: RE: STLC Chromium Analysis

Hi Dimple,

Please run additional analysis for W.E.T. STLC Chromium (Cr) on a RUSH (3-Day TAT) for the following samples:

EX4-3-spoils-comp submitted on 10/23/2013.

EX3/4-1-spoils-compA submitted on 10/23/2013.

EX3/4-1-spoils-compB submitted on 10/23/2013.

Please contact me to confirm that you received this request, or if you have any questions, comments, or require additional information.

Thanks Dimple and the TAP Team!

Sincerely,

Vincent

RUSH

From: Tilotta, Vincent
Sent: Friday, November 01, 2013 7:39 AM
To: 'Sharma, Dimple'
Cc: Schwartz, James; Sebik, Joanna
Subject: STLC Lead Analysis

Good morning Dimple,

Haley & Aldrich is hereby requesting additional analysis for W.E.T. STLC Lead (Pb) on a RUSH (3-Day TAT) for the following sample:

EX10/11-2-Spoils-Comp.E, submitted on 10/7/2013.

Please contact me to confirm that you received this request, or if you have any questions, comments, or require additional information.

Thanks Dimple and the TAP Team!

Sincerely,

Vincent P. Tilotta, E.I.T.
Staff Engineer
HALEY & ALDRICH

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-53257-2

Login Number: 53257

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-53329-1
Client Project/Site: Hansen

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: James Schwartz

Authorized for release by:
11/1/2013 4:09:21 PM

Dimple Sharma, Project Manager I
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-53329-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-53329-1

Comments
No additional comments.

Receipt
The samples were received on 10/25/2013 3:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9º C.

GC/MS VOA
Method 8260B: The matrix spike duplicate (MSD) percent recoveries and %RPD for batch #147189 were outside control limits. This is attributed to matrix interferences.

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53329-1

Client Sample ID: EX1/2-2-SPOILS-COMP.A — Lab Sample ID: 720-53329-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	30		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	74		50		mg/Kg	1		8015B	Silica Gel Cleanup
Arsenic	4.1		3.8		mg/Kg	4		6010B	Total/NA
Barium	100		1.9		mg/Kg	4		6010B	Total/NA
Chromium	48		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	9.7		0.77		mg/Kg	4		6010B	Total/NA
Copper	22		5.8		mg/Kg	4		6010B	Total/NA
Lead	6.7		1.9		mg/Kg	4		6010B	Total/NA
Nickel	70		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	25		1.9		mg/Kg	4		6010B	Total/NA
Zinc	45		5.8		mg/Kg	4		6010B	Total/NA
Mercury	0.041		0.0095		mg/Kg	1		7471A	Total/NA

Client Sample ID: EX1/2-2-SPOILS-COMP.B — Lab Sample ID: 720-53329-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	69		1.0		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	180		50		mg/Kg	1		8015B	Silica Gel Cleanup
Barium	86		2.0		mg/Kg	4		6010B	Total/NA
Chromium	46		2.0		mg/Kg	4		6010B	Total/NA
Cobalt	8.8		0.80		mg/Kg	4		6010B	Total/NA
Copper	20		6.0		mg/Kg	4		6010B	Total/NA
Lead	8.2		2.0		mg/Kg	4		6010B	Total/NA
Nickel	60		2.0		mg/Kg	4		6010B	Total/NA
Vanadium	22		2.0		mg/Kg	4		6010B	Total/NA
Zinc	48		6.0		mg/Kg	4		6010B	Total/NA
Mercury	0.035		0.0088		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53329-1

Client Sample ID: EX1/2-2-SPOILS-COMP.A
Date Collected: 10/25/13 13:10
Date Received: 10/25/13 15:20

Lab Sample ID: 720-53329-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Acetone	ND		50		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Benzene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Dichlorobromomethane	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Bromobenzene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Chlorobromomethane	ND		20		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Bromoform	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Bromomethane	ND		10		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
2-Butanone (MEK)	ND		50		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
n-Butylbenzene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
sec-Butylbenzene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
tert-Butylbenzene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Carbon disulfide	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Carbon tetrachloride	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Chlorobenzene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Chloroethane	ND		10		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Chloroform	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Chloromethane	ND		10		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
2-Chlorotoluene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
4-Chlorotoluene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Chlorodibromomethane	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,3-Dichloropropane	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,1-Dichloropropene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Ethylene Dibromide	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Dibromomethane	ND		10		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Dichlorodifluoromethane	ND		10		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,1-Dichloroethane	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,2-Dichloroethane	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,1-Dichloroethene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,2-Dichloropropane	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Ethylbenzene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Hexachlorobutadiene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
2-Hexanone	ND		50		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Isopropylbenzene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
4-Isopropyltoluene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Methylene Chloride	ND		10		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Naphthalene	ND		10		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
N-Propylbenzene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Styrene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53329-1

Client Sample ID: EX1/2-2-SPOILS-COMP.A — **Lab Sample ID: 720-53329-5**
Date Collected: 10/25/13 13:10 — **Matrix: Solid**
Date Received: 10/25/13 15:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Tetrachloroethene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Toluene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Trichloroethene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Trichlorofluoromethane	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Vinyl acetate	ND		50		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Vinyl chloride	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Xylenes, Total	ND		10		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
2,2-Dichloropropane	ND		5.0		ug/Kg		10/28/13 19:00	10/29/13 04:03	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		10/28/13 19:00	10/29/13 04:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*66*		*45 - 131*	*10/28/13 19:00*	*10/29/13 04:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*	*10/28/13 19:00*	*10/29/13 04:03*	*1*
Toluene-d8 (Surr)	*83*		*58 - 140*	*10/28/13 19:00*	*10/29/13 04:03*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**30**		1.0		mg/Kg		10/31/13 09:10	10/31/13 19:55	1
Motor Oil Range Organics [C24-C36]	**74**		50		mg/Kg		10/31/13 09:10	10/31/13 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.1*		*0 - 1*	*10/31/13 09:10*	*10/31/13 19:55*	*1*
p-Terphenyl	*101*		*38 - 148*	*10/31/13 09:10*	*10/31/13 19:55*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		10/29/13 22:04	10/30/13 19:56	4
Arsenic	**4.1**		3.8		mg/Kg		10/29/13 22:04	10/30/13 19:56	4
Barium	**100**		1.9		mg/Kg		10/29/13 22:04	10/30/13 19:56	4
Beryllium	ND		0.38		mg/Kg		10/29/13 22:04	10/30/13 19:56	4
Cadmium	ND		0.48		mg/Kg		10/29/13 22:04	10/30/13 19:56	4
Chromium	**48**		1.9		mg/Kg		10/29/13 22:04	10/30/13 19:56	4
Cobalt	**9.7**		0.77		mg/Kg		10/29/13 22:04	10/30/13 19:56	4
Copper	**22**		5.8		mg/Kg		10/29/13 22:04	10/30/13 19:56	4
Lead	**6.7**		1.9		mg/Kg		10/29/13 22:04	10/30/13 19:56	4
Molybdenum	ND		1.9		mg/Kg		10/29/13 22:04	10/30/13 19:56	4
Nickel	**70**		1.9		mg/Kg		10/29/13 22:04	10/30/13 19:56	4
Selenium	ND		3.8		mg/Kg		10/29/13 22:04	10/30/13 19:56	4
Silver	ND		0.96		mg/Kg		10/29/13 22:04	10/30/13 19:56	4
Thallium	ND		1.9		mg/Kg		10/29/13 22:04	10/30/13 19:56	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53329-1

Client Sample ID: EX1/2-2-SPOILS-COMP.A
Date Collected: 10/25/13 13:10
Date Received: 10/25/13 15:20

Lab Sample ID: 720-53329-5
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	25		1.9		mg/Kg		10/29/13 22:04	10/30/13 19:56	4
Zinc	45		5.8		mg/Kg		10/29/13 22:04	10/30/13 19:56	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.041		0.0095		mg/Kg		10/29/13 21:51	10/30/13 14:08	1

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53329-1

Client Sample ID: EX1/2-2-SPOILS-COMP.B — **Lab Sample ID: 720-53329-10**
Date Collected: 10/25/13 13:30 — **Matrix: Solid**
Date Received: 10/25/13 15:20

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Acetone	ND		45		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Benzene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Dichlorobromomethane	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Bromobenzene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Chlorobromomethane	ND		18		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Bromoform	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Bromomethane	ND		8.9		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
2-Butanone (MEK)	ND		45		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
n-Butylbenzene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
sec-Butylbenzene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
tert-Butylbenzene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Carbon disulfide	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Carbon tetrachloride	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Chlorobenzene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Chloroethane	ND		8.9		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Chloroform	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Chloromethane	ND		8.9		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
2-Chlorotoluene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
4-Chlorotoluene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Chlorodibromomethane	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,2-Dichlorobenzene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,3-Dichlorobenzene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,4-Dichlorobenzene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,3-Dichloropropane	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,1-Dichloropropene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,2-Dibromo-3-Chloropropane	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Ethylene Dibromide	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Dibromomethane	ND		8.9		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Dichlorodifluoromethane	ND		8.9		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,1-Dichloroethane	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,2-Dichloroethane	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,1-Dichloroethene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
cis-1,2-Dichloroethene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
trans-1,2-Dichloroethene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,2-Dichloropropane	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
cis-1,3-Dichloropropene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
trans-1,3-Dichloropropene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Ethylbenzene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Hexachlorobutadiene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
2-Hexanone	ND		45		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Isopropylbenzene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
4-Isopropyltoluene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Methylene Chloride	ND		8.9		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
4-Methyl-2-pentanone (MIBK)	ND		45		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Naphthalene	ND		8.9		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
N-Propylbenzene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Styrene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,1,1,2-Tetrachloroethane	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1

Client Sample ID: EX1/2-2-SPOILS-COMP.B — **Lab Sample ID: 720-53329-10**
Date Collected: 10/25/13 13:30 — **Matrix: Solid**
Date Received: 10/25/13 15:20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Tetrachloroethene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Toluene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,2,3-Trichlorobenzene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,2,4-Trichlorobenzene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,1,1-Trichloroethane	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,1,2-Trichloroethane	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Trichloroethene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Trichlorofluoromethane	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,2,3-Trichloropropane	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,2,4-Trimethylbenzene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
1,3,5-Trimethylbenzene	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Vinyl acetate	ND		45		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Vinyl chloride	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Xylenes, Total	ND		8.9		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
2,2-Dichloropropane	ND		4.5		ug/Kg		10/29/13 10:00	10/29/13 17:14	1
Gasoline Range Organics (GRO) -C5-C12	ND		220		ug/Kg		10/29/13 10:00	10/29/13 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*45 - 131*	*10/29/13 10:00*	*10/29/13 17:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*	*10/29/13 10:00*	*10/29/13 17:14*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*	*10/29/13 10:00*	*10/29/13 17:14*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**69**		1.0		mg/Kg		10/31/13 09:10	10/31/13 20:25	1
Motor Oil Range Organics [C24-C36]	**180**		50		mg/Kg		10/31/13 09:10	10/31/13 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.1*		*0 - 1*	*10/31/13 09:10*	*10/31/13 20:25*	*1*
p-Terphenyl	*118*		*38 - 148*	*10/31/13 09:10*	*10/31/13 20:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.0		mg/Kg		10/29/13 22:04	10/30/13 20:01	4
Arsenic	ND		4.0		mg/Kg		10/29/13 22:04	10/30/13 20:01	4
Barium	**86**		2.0		mg/Kg		10/29/13 22:04	10/30/13 20:01	4
Beryllium	ND		0.40		mg/Kg		10/29/13 22:04	10/30/13 20:01	4
Cadmium	ND		0.50		mg/Kg		10/29/13 22:04	10/30/13 20:01	4
Chromium	**46**		2.0		mg/Kg		10/29/13 22:04	10/30/13 20:01	4
Cobalt	**8.8**		0.80		mg/Kg		10/29/13 22:04	10/30/13 20:01	4
Copper	**20**		6.0		mg/Kg		10/29/13 22:04	10/30/13 20:01	4
Lead	**8.2**		2.0		mg/Kg		10/29/13 22:04	10/30/13 20:01	4
Molybdenum	ND		2.0		mg/Kg		10/29/13 22:04	10/30/13 20:01	4
Nickel	**60**		2.0		mg/Kg		10/29/13 22:04	10/30/13 20:01	4
Selenium	ND		4.0		mg/Kg		10/29/13 22:04	10/30/13 20:01	4
Silver	ND		1.0		mg/Kg		10/29/13 22:04	10/30/13 20:01	4
Thallium	ND		2.0		mg/Kg		10/29/13 22:04	10/30/13 20:01	4

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53329-1

Client Sample ID: EX1/2-2-SPOILS-COMP.B
Date Collected: 10/25/13 13:30
Date Received: 10/25/13 15:20

Lab Sample ID: 720-53329-10
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	22		2.0		mg/Kg		10/29/13 22:04	10/30/13 20:01	4
Zinc	48		6.0		mg/Kg		10/29/13 22:04	10/30/13 20:01	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.0088		mg/Kg		10/29/13 21:51	10/30/13 14:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-147189/5
Matrix: Solid
Analysis Batch: 147189

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			10/28/13 20:56	1
Acetone	ND		50		ug/Kg			10/28/13 20:56	1
Benzene	ND		5.0		ug/Kg			10/28/13 20:56	1
Dichlorobromomethane	ND		5.0		ug/Kg			10/28/13 20:56	1
Bromobenzene	ND		5.0		ug/Kg			10/28/13 20:56	1
Chlorobromomethane	ND		20		ug/Kg			10/28/13 20:56	1
Bromoform	ND		5.0		ug/Kg			10/28/13 20:56	1
Bromomethane	ND		10		ug/Kg			10/28/13 20:56	1
2-Butanone (MEK)	ND		50		ug/Kg			10/28/13 20:56	1
n-Butylbenzene	ND		5.0		ug/Kg			10/28/13 20:56	1
sec-Butylbenzene	ND		5.0		ug/Kg			10/28/13 20:56	1
tert-Butylbenzene	ND		5.0		ug/Kg			10/28/13 20:56	1
Carbon disulfide	ND		5.0		ug/Kg			10/28/13 20:56	1
Carbon tetrachloride	ND		5.0		ug/Kg			10/28/13 20:56	1
Chlorobenzene	ND		5.0		ug/Kg			10/28/13 20:56	1
Chloroethane	ND		10		ug/Kg			10/28/13 20:56	1
Chloroform	ND		5.0		ug/Kg			10/28/13 20:56	1
Chloromethane	ND		10		ug/Kg			10/28/13 20:56	1
2-Chlorotoluene	ND		5.0		ug/Kg			10/28/13 20:56	1
4-Chlorotoluene	ND		5.0		ug/Kg			10/28/13 20:56	1
Chlorodibromomethane	ND		5.0		ug/Kg			10/28/13 20:56	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			10/28/13 20:56	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			10/28/13 20:56	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			10/28/13 20:56	1
1,3-Dichloropropane	ND		5.0		ug/Kg			10/28/13 20:56	1
1,1-Dichloropropene	ND		5.0		ug/Kg			10/28/13 20:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			10/28/13 20:56	1
Ethylene Dibromide	ND		5.0		ug/Kg			10/28/13 20:56	1
Dibromomethane	ND		10		ug/Kg			10/28/13 20:56	1
Dichlorodifluoromethane	ND		10		ug/Kg			10/28/13 20:56	1
1,1-Dichloroethane	ND		5.0		ug/Kg			10/28/13 20:56	1
1,2-Dichloroethane	ND		5.0		ug/Kg			10/28/13 20:56	1
1,1-Dichloroethene	ND		5.0		ug/Kg			10/28/13 20:56	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			10/28/13 20:56	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			10/28/13 20:56	1
1,2-Dichloropropane	ND		5.0		ug/Kg			10/28/13 20:56	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			10/28/13 20:56	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			10/28/13 20:56	1
Ethylbenzene	ND		5.0		ug/Kg			10/28/13 20:56	1
Hexachlorobutadiene	ND		5.0		ug/Kg			10/28/13 20:56	1
2-Hexanone	ND		50		ug/Kg			10/28/13 20:56	1
Isopropylbenzene	ND		5.0		ug/Kg			10/28/13 20:56	1
4-Isopropyltoluene	ND		5.0		ug/Kg			10/28/13 20:56	1
Methylene Chloride	ND		10		ug/Kg			10/28/13 20:56	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			10/28/13 20:56	1
Naphthalene	ND		10		ug/Kg			10/28/13 20:56	1
N-Propylbenzene	ND		5.0		ug/Kg			10/28/13 20:56	1
Styrene	ND		5.0		ug/Kg			10/28/13 20:56	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-147189/5
Matrix: Solid
Analysis Batch: 147189

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			10/28/13 20:56	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			10/28/13 20:56	1
Tetrachloroethene	ND		5.0		ug/Kg			10/28/13 20:56	1
Toluene	ND		5.0		ug/Kg			10/28/13 20:56	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			10/28/13 20:56	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			10/28/13 20:56	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			10/28/13 20:56	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			10/28/13 20:56	1
Trichloroethene	ND		5.0		ug/Kg			10/28/13 20:56	1
Trichlorofluoromethane	ND		5.0		ug/Kg			10/28/13 20:56	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			10/28/13 20:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			10/28/13 20:56	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			10/28/13 20:56	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			10/28/13 20:56	1
Vinyl acetate	ND		50		ug/Kg			10/28/13 20:56	1
Vinyl chloride	ND		5.0		ug/Kg			10/28/13 20:56	1
Xylenes, Total	ND		10		ug/Kg			10/28/13 20:56	1
2,2-Dichloropropane	ND		5.0		ug/Kg			10/28/13 20:56	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			10/28/13 20:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*79*		*45 - 131*		*10/28/13 20:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 140*		*10/28/13 20:56*	*1*
Toluene-d8 (Surr)	*88*		*58 - 140*		*10/28/13 20:56*	*1*

Lab Sample ID: LCS 720-147189/6
Matrix: Solid
Analysis Batch: 147189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	51.8		ug/Kg		104	70 - 144
Acetone	250	245		ug/Kg		98	30 - 162
Benzene	50.0	48.2		ug/Kg		96	70 - 130
Dichlorobromomethane	50.0	51.2		ug/Kg		102	70 - 131
Bromobenzene	50.0	48.5		ug/Kg		97	70 - 130
Chlorobromomethane	50.0	52.1		ug/Kg		104	70 - 130
Bromoform	50.0	55.7		ug/Kg		111	59 - 158
Bromomethane	50.0	47.3		ug/Kg		95	59 - 132
2-Butanone (MEK)	250	263		ug/Kg		105	53 - 124
n-Butylbenzene	50.0	54.7		ug/Kg		109	70 - 142
sec-Butylbenzene	50.0	51.4		ug/Kg		103	70 - 136
tert-Butylbenzene	50.0	52.1		ug/Kg		104	70 - 130
Carbon disulfide	50.0	50.7		ug/Kg		101	60 - 140
Carbon tetrachloride	50.0	51.3		ug/Kg		103	70 - 138
Chlorobenzene	50.0	49.3		ug/Kg		99	70 - 130
Chloroethane	50.0	48.7		ug/Kg		97	65 - 130
Chloroform	50.0	50.7		ug/Kg		101	77 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-147189/6
Matrix: Solid
Analysis Batch: 147189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	46.7		ug/Kg		93	55 - 140
2-Chlorotoluene	50.0	51.9		ug/Kg		104	70 - 138
4-Chlorotoluene	50.0	51.3		ug/Kg		103	70 - 136
Chlorodibromomethane	50.0	56.1		ug/Kg		112	70 - 146
1,2-Dichlorobenzene	50.0	50.0		ug/Kg		100	70 - 130
1,3-Dichlorobenzene	50.0	49.5		ug/Kg		99	70 - 131
1,4-Dichlorobenzene	50.0	49.4		ug/Kg		99	70 - 130
1,3-Dichloropropane	50.0	54.3		ug/Kg		109	70 - 140
1,1-Dichloropropene	50.0	52.9		ug/Kg		106	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.2		ug/Kg		98	60 - 145
Ethylene Dibromide	50.0	53.7		ug/Kg		107	70 - 140
Dibromomethane	50.0	56.5		ug/Kg		113	70 - 139
Dichlorodifluoromethane	50.0	41.5		ug/Kg		83	37 - 158
1,1-Dichloroethane	50.0	49.7		ug/Kg		99	70 - 130
1,2-Dichloroethane	50.0	52.4		ug/Kg		105	70 - 130
1,1-Dichloroethene	50.0	49.2		ug/Kg		98	76 - 122
cis-1,2-Dichloroethene	50.0	52.2		ug/Kg		104	70 - 138
trans-1,2-Dichloroethene	50.0	48.3		ug/Kg		97	67 - 130
1,2-Dichloropropane	50.0	48.2		ug/Kg		96	73 - 127
cis-1,3-Dichloropropene	50.0	53.8		ug/Kg		108	68 - 147
trans-1,3-Dichloropropene	50.0	53.8		ug/Kg		108	70 - 136
Ethylbenzene	50.0	50.1		ug/Kg		100	80 - 137
Hexachlorobutadiene	50.0	47.2		ug/Kg		94	70 - 132
2-Hexanone	250	266		ug/Kg		106	44 - 133
Isopropylbenzene	50.0	54.8		ug/Kg		110	88 - 128
4-Isopropyltoluene	50.0	51.2		ug/Kg		102	70 - 133
Methylene Chloride	50.0	48.9		ug/Kg		98	70 - 134
4-Methyl-2-pentanone (MIBK)	250	270		ug/Kg		108	60 - 160
Naphthalene	50.0	53.0		ug/Kg		106	60 - 147
N-Propylbenzene	50.0	51.5		ug/Kg		103	70 - 130
Styrene	50.0	55.9		ug/Kg		112	70 - 130
1,1,1,2-Tetrachloroethane	50.0	50.3		ug/Kg		101	70 - 130
1,1,2,2-Tetrachloroethane	50.0	53.8		ug/Kg		108	70 - 146
Tetrachloroethene	50.0	52.8		ug/Kg		106	70 - 132
Toluene	50.0	48.5		ug/Kg		97	80 - 128
1,2,3-Trichlorobenzene	50.0	50.1		ug/Kg		100	60 - 140
1,2,4-Trichlorobenzene	50.0	50.5		ug/Kg		101	60 - 140
1,1,1-Trichloroethane	50.0	51.1		ug/Kg		102	70 - 130
1,1,2-Trichloroethane	50.0	53.7		ug/Kg		107	70 - 130
Trichloroethene	50.0	50.0		ug/Kg		100	70 - 133
Trichlorofluoromethane	50.0	47.5		ug/Kg		95	60 - 140
1,2,3-Trichloropropane	50.0	53.9		ug/Kg		108	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.8		ug/Kg		100	60 - 140
1,2,4-Trimethylbenzene	50.0	53.2		ug/Kg		106	70 - 130
1,3,5-Trimethylbenzene	50.0	53.5		ug/Kg		107	70 - 131
Vinyl acetate	50.0	65.1		ug/Kg		130	38 - 176
Vinyl chloride	50.0	48.9		ug/Kg		98	58 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-147189/6
Matrix: Solid
Analysis Batch: 147189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	100	105		ug/Kg		105	70 - 146
o-Xylene	50.0	54.6		ug/Kg		109	70 - 140
2,2-Dichloropropane	50.0	52.3		ug/Kg		105	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*95*		*58 - 140*

Lab Sample ID: LCS 720-147189/8
Matrix: Solid
Analysis Batch: 147189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1090		ug/Kg		109	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*99*		*58 - 140*

Lab Sample ID: LCSD 720-147189/7
Matrix: Solid
Analysis Batch: 147189

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	51.9		ug/Kg		104	70 - 144	0	20
Acetone	250	240		ug/Kg		96	30 - 162	2	30
Benzene	50.0	49.0		ug/Kg		98	70 - 130	2	20
Dichlorobromomethane	50.0	51.9		ug/Kg		104	70 - 131	1	20
Bromobenzene	50.0	49.4		ug/Kg		99	70 - 130	2	20
Chlorobromomethane	50.0	52.7		ug/Kg		105	70 - 130	1	20
Bromoform	50.0	53.1		ug/Kg		106	59 - 158	5	20
Bromomethane	50.0	48.8		ug/Kg		98	59 - 132	3	20
2-Butanone (MEK)	250	253		ug/Kg		101	53 - 124	4	20
n-Butylbenzene	50.0	54.3		ug/Kg		109	70 - 142	1	20
sec-Butylbenzene	50.0	52.3		ug/Kg		105	70 - 136	2	20
tert-Butylbenzene	50.0	54.4		ug/Kg		109	70 - 130	4	20
Carbon disulfide	50.0	51.7		ug/Kg		103	60 - 140	2	20
Carbon tetrachloride	50.0	52.6		ug/Kg		105	70 - 138	2	20
Chlorobenzene	50.0	49.6		ug/Kg		99	70 - 130	1	20
Chloroethane	50.0	51.7		ug/Kg		103	65 - 130	6	20
Chloroform	50.0	51.9		ug/Kg		104	77 - 127	2	20
Chloromethane	50.0	48.7		ug/Kg		97	55 - 140	4	20
2-Chlorotoluene	50.0	53.7		ug/Kg		107	70 - 138	3	20
4-Chlorotoluene	50.0	52.6		ug/Kg		105	70 - 136	3	20
Chlorodibromomethane	50.0	55.2		ug/Kg		110	70 - 146	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-147189/7
Matrix: Solid
Analysis Batch: 147189

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	49.4		ug/Kg		99	70 - 130	1	20
1,3-Dichlorobenzene	50.0	50.2		ug/Kg		100	70 - 131	1	20
1,4-Dichlorobenzene	50.0	49.3		ug/Kg		99	70 - 130	0	20
1,3-Dichloropropane	50.0	53.3		ug/Kg		107	70 - 140	2	20
1,1-Dichloropropene	50.0	54.4		ug/Kg		109	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	50.0	48.8		ug/Kg		98	60 - 145	1	20
Ethylene Dibromide	50.0	52.7		ug/Kg		105	70 - 140	2	20
Dibromomethane	50.0	56.0		ug/Kg		112	70 - 139	1	20
Dichlorodifluoromethane	50.0	42.9		ug/Kg		86	37 - 158	3	20
1,1-Dichloroethane	50.0	51.1		ug/Kg		102	70 - 130	3	20
1,2-Dichloroethane	50.0	51.5		ug/Kg		103	70 - 130	2	20
1,1-Dichloroethene	50.0	50.9		ug/Kg		102	76 - 122	4	20
cis-1,2-Dichloroethene	50.0	52.8		ug/Kg		106	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	49.7		ug/Kg		99	67 - 130	3	20
1,2-Dichloropropane	50.0	48.7		ug/Kg		97	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	53.2		ug/Kg		106	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	53.2		ug/Kg		106	70 - 136	1	20
Ethylbenzene	50.0	50.3		ug/Kg		101	80 - 137	0	20
Hexachlorobutadiene	50.0	44.3		ug/Kg		89	70 - 132	6	20
2-Hexanone	250	253		ug/Kg		101	44 - 133	5	20
Isopropylbenzene	50.0	54.5		ug/Kg		109	88 - 128	0	20
4-Isopropyltoluene	50.0	52.0		ug/Kg		104	70 - 133	1	20
Methylene Chloride	50.0	50.1		ug/Kg		100	70 - 134	2	20
4-Methyl-2-pentanone (MIBK)	250	258		ug/Kg		103	60 - 160	4	20
Naphthalene	50.0	49.7		ug/Kg		99	60 - 147	7	20
N-Propylbenzene	50.0	52.6		ug/Kg		105	70 - 130	2	20
Styrene	50.0	55.5		ug/Kg		111	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	50.9		ug/Kg		102	70 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	53.7		ug/Kg		107	70 - 146	0	20
Tetrachloroethene	50.0	51.9		ug/Kg		104	70 - 132	2	20
Toluene	50.0	49.9		ug/Kg		100	80 - 128	3	20
1,2,3-Trichlorobenzene	50.0	47.1		ug/Kg		94	60 - 140	6	20
1,2,4-Trichlorobenzene	50.0	48.5		ug/Kg		97	60 - 140	4	20
1,1,1-Trichloroethane	50.0	51.9		ug/Kg		104	70 - 130	1	20
1,1,2-Trichloroethane	50.0	53.4		ug/Kg		107	70 - 130	1	20
Trichloroethene	50.0	50.0		ug/Kg		100	70 - 133	0	20
Trichlorofluoromethane	50.0	49.4		ug/Kg		99	60 - 140	4	20
1,2,3-Trichloropropane	50.0	54.4		ug/Kg		109	70 - 146	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.2		ug/Kg		102	60 - 140	3	20
1,2,4-Trimethylbenzene	50.0	54.2		ug/Kg		108	70 - 130	2	20
1,3,5-Trimethylbenzene	50.0	55.1		ug/Kg		110	70 - 131	3	20
Vinyl acetate	50.0	64.4		ug/Kg		129	38 - 176	1	20
Vinyl chloride	50.0	49.6		ug/Kg		99	58 - 125	2	20
m-Xylene & p-Xylene	100	105		ug/Kg		105	70 - 146	0	20
o-Xylene	50.0	55.3		ug/Kg		111	70 - 140	1	20
2,2-Dichloropropane	50.0	53.5		ug/Kg		107	70 - 162	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-147189/7
Matrix: Solid
Analysis Batch: 147189

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*97*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*96*		*58 - 140*

Lab Sample ID: LCSD 720-147189/9
Matrix: Solid
Analysis Batch: 147189

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1080		ug/Kg		108	61 - 128	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	*95*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: MB 720-147228/4
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			10/29/13 10:20	1
Acetone	ND		50		ug/Kg			10/29/13 10:20	1
Benzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Dichlorobromomethane	ND		5.0		ug/Kg			10/29/13 10:20	1
Bromobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Chlorobromomethane	ND		20		ug/Kg			10/29/13 10:20	1
Bromoform	ND		5.0		ug/Kg			10/29/13 10:20	1
Bromomethane	ND		10		ug/Kg			10/29/13 10:20	1
2-Butanone (MEK)	ND		50		ug/Kg			10/29/13 10:20	1
n-Butylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
sec-Butylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
tert-Butylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Carbon disulfide	ND		5.0		ug/Kg			10/29/13 10:20	1
Carbon tetrachloride	ND		5.0		ug/Kg			10/29/13 10:20	1
Chlorobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Chloroethane	ND		10		ug/Kg			10/29/13 10:20	1
Chloroform	ND		5.0		ug/Kg			10/29/13 10:20	1
Chloromethane	ND		10		ug/Kg			10/29/13 10:20	1
2-Chlorotoluene	ND		5.0		ug/Kg			10/29/13 10:20	1
4-Chlorotoluene	ND		5.0		ug/Kg			10/29/13 10:20	1
Chlorodibromomethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,3-Dichloropropane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1-Dichloropropene	ND		5.0		ug/Kg			10/29/13 10:20	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-147228/4
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			10/29/13 10:20	1
Ethylene Dibromide	ND		5.0		ug/Kg			10/29/13 10:20	1
Dibromomethane	ND		10		ug/Kg			10/29/13 10:20	1
Dichlorodifluoromethane	ND		10		ug/Kg			10/29/13 10:20	1
1,1-Dichloroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2-Dichloroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1-Dichloroethene	ND		5.0		ug/Kg			10/29/13 10:20	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			10/29/13 10:20	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2-Dichloropropane	ND		5.0		ug/Kg			10/29/13 10:20	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			10/29/13 10:20	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			10/29/13 10:20	1
Ethylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Hexachlorobutadiene	ND		5.0		ug/Kg			10/29/13 10:20	1
2-Hexanone	ND		50		ug/Kg			10/29/13 10:20	1
Isopropylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
4-Isopropyltoluene	ND		5.0		ug/Kg			10/29/13 10:20	1
Methylene Chloride	ND		10		ug/Kg			10/29/13 10:20	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			10/29/13 10:20	1
Naphthalene	ND		10		ug/Kg			10/29/13 10:20	1
N-Propylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Styrene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
Tetrachloroethene	ND		5.0		ug/Kg			10/29/13 10:20	1
Toluene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
Trichloroethene	ND		5.0		ug/Kg			10/29/13 10:20	1
Trichlorofluoromethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			10/29/13 10:20	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			10/29/13 10:20	1
Vinyl acetate	ND		50		ug/Kg			10/29/13 10:20	1
Vinyl chloride	ND		5.0		ug/Kg			10/29/13 10:20	1
Xylenes, Total	ND		10		ug/Kg			10/29/13 10:20	1
2,2-Dichloropropane	ND		5.0		ug/Kg			10/29/13 10:20	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			10/29/13 10:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*45 - 131*		*10/29/13 10:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*		*10/29/13 10:20*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*		*10/29/13 10:20*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-147228/5
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	55.7		ug/Kg		111	70 - 144
Acetone	250	225		ug/Kg		90	30 - 162
Benzene	50.0	48.5		ug/Kg		97	70 - 130
Dichlorobromomethane	50.0	54.1		ug/Kg		108	70 - 131
Bromobenzene	50.0	49.7		ug/Kg		99	70 - 130
Chlorobromomethane	50.0	52.4		ug/Kg		105	70 - 130
Bromoform	50.0	56.4		ug/Kg		113	59 - 158
Bromomethane	50.0	54.4		ug/Kg		109	59 - 132
2-Butanone (MEK)	250	261		ug/Kg		104	53 - 124
n-Butylbenzene	50.0	48.9		ug/Kg		98	70 - 142
sec-Butylbenzene	50.0	48.3		ug/Kg		97	70 - 136
tert-Butylbenzene	50.0	49.4		ug/Kg		99	70 - 130
Carbon disulfide	50.0	53.0		ug/Kg		106	60 - 140
Carbon tetrachloride	50.0	60.8		ug/Kg		122	70 - 138
Chlorobenzene	50.0	49.8		ug/Kg		100	70 - 130
Chloroethane	50.0	47.9		ug/Kg		96	65 - 130
Chloroform	50.0	53.0		ug/Kg		106	77 - 127
Chloromethane	50.0	43.5		ug/Kg		87	55 - 140
2-Chlorotoluene	50.0	49.5		ug/Kg		99	70 - 138
4-Chlorotoluene	50.0	49.0		ug/Kg		98	70 - 136
Chlorodibromomethane	50.0	57.0		ug/Kg		114	70 - 146
1,2-Dichlorobenzene	50.0	48.7		ug/Kg		97	70 - 130
1,3-Dichlorobenzene	50.0	49.3		ug/Kg		99	70 - 131
1,4-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 130
1,3-Dichloropropane	50.0	51.8		ug/Kg		104	70 - 140
1,1-Dichloropropene	50.0	54.9		ug/Kg		110	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.5		ug/Kg		101	60 - 145
Ethylene Dibromide	50.0	55.5		ug/Kg		111	70 - 140
Dibromomethane	50.0	55.1		ug/Kg		110	70 - 139
Dichlorodifluoromethane	50.0	39.7		ug/Kg		79	37 - 158
1,1-Dichloroethane	50.0	50.4		ug/Kg		101	70 - 130
1,2-Dichloroethane	50.0	54.9		ug/Kg		110	70 - 130
1,1-Dichloroethene	50.0	48.6		ug/Kg		97	76 - 122
cis-1,2-Dichloroethene	50.0	52.0		ug/Kg		104	70 - 138
trans-1,2-Dichloroethene	50.0	47.6		ug/Kg		95	67 - 130
1,2-Dichloropropane	50.0	45.9		ug/Kg		92	73 - 127
cis-1,3-Dichloropropene	50.0	52.9		ug/Kg		106	68 - 147
trans-1,3-Dichloropropene	50.0	55.6		ug/Kg		111	70 - 136
Ethylbenzene	50.0	50.3		ug/Kg		101	80 - 137
Hexachlorobutadiene	50.0	46.5		ug/Kg		93	70 - 132
2-Hexanone	250	236		ug/Kg		94	44 - 133
Isopropylbenzene	50.0	52.5		ug/Kg		105	88 - 128
4-Isopropyltoluene	50.0	49.5		ug/Kg		99	70 - 133
Methylene Chloride	50.0	41.4		ug/Kg		83	70 - 134
4-Methyl-2-pentanone (MIBK)	250	236		ug/Kg		95	60 - 160
Naphthalene	50.0	46.1		ug/Kg		92	60 - 147
N-Propylbenzene	50.0	48.9		ug/Kg		98	70 - 130
Styrene	50.0	51.3		ug/Kg		103	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-147228/5
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.8		ug/Kg		106	70 - 130
1,1,2,2-Tetrachloroethane	50.0	46.1		ug/Kg		92	70 - 146
Tetrachloroethene	50.0	54.8		ug/Kg		110	70 - 132
Toluene	50.0	49.5		ug/Kg		99	80 - 128
1,2,3-Trichlorobenzene	50.0	44.6		ug/Kg		89	60 - 140
1,2,4-Trichlorobenzene	50.0	47.1		ug/Kg		94	60 - 140
1,1,1-Trichloroethane	50.0	60.1		ug/Kg		120	70 - 130
1,1,2-Trichloroethane	50.0	51.1		ug/Kg		102	70 - 130
Trichloroethene	50.0	50.8		ug/Kg		102	70 - 133
Trichlorofluoromethane	50.0	59.7		ug/Kg		119	60 - 140
1,2,3-Trichloropropane	50.0	52.1		ug/Kg		104	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.4		ug/Kg		109	60 - 140
1,2,4-Trimethylbenzene	50.0	49.5		ug/Kg		99	70 - 130
1,3,5-Trimethylbenzene	50.0	49.9		ug/Kg		100	70 - 131
Vinyl acetate	50.0	55.0		ug/Kg		110	38 - 176
Vinyl chloride	50.0	45.7		ug/Kg		91	58 - 125
m-Xylene & p-Xylene	100	103		ug/Kg		103	70 - 146
o-Xylene	50.0	52.8		ug/Kg		106	70 - 140
2,2-Dichloropropane	50.0	58.1		ug/Kg		116	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: LCS 720-147228/7
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	908		ug/Kg		91	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: LCSD 720-147228/6
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	53.2		ug/Kg		106	70 - 144	5	20
Acetone	250	207		ug/Kg		83	30 - 162	8	30
Benzene	50.0	48.1		ug/Kg		96	70 - 130	1	20
Dichlorobromomethane	50.0	53.9		ug/Kg		108	70 - 131	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-147228/6
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	50.1		ug/Kg		100	70 - 130	1	20
Chlorobromomethane	50.0	52.2		ug/Kg		104	70 - 130	1	20
Bromoform	50.0	56.6		ug/Kg		113	59 - 158	0	20
Bromomethane	50.0	51.7		ug/Kg		103	59 - 132	5	20
2-Butanone (MEK)	250	247		ug/Kg		99	53 - 124	6	20
n-Butylbenzene	50.0	51.1		ug/Kg		102	70 - 142	4	20
sec-Butylbenzene	50.0	49.8		ug/Kg		100	70 - 136	3	20
tert-Butylbenzene	50.0	50.7		ug/Kg		101	70 - 130	3	20
Carbon disulfide	50.0	52.3		ug/Kg		105	60 - 140	1	20
Carbon tetrachloride	50.0	60.6		ug/Kg		121	70 - 138	0	20
Chlorobenzene	50.0	50.2		ug/Kg		100	70 - 130	1	20
Chloroethane	50.0	46.5		ug/Kg		93	65 - 130	3	20
Chloroform	50.0	52.4		ug/Kg		105	77 - 127	1	20
Chloromethane	50.0	40.6		ug/Kg		81	55 - 140	7	20
2-Chlorotoluene	50.0	50.1		ug/Kg		100	70 - 138	1	20
4-Chlorotoluene	50.0	50.0		ug/Kg		100	70 - 136	2	20
Chlorodibromomethane	50.0	56.2		ug/Kg		112	70 - 146	1	20
1,2-Dichlorobenzene	50.0	50.5		ug/Kg		101	70 - 130	4	20
1,3-Dichlorobenzene	50.0	51.9		ug/Kg		104	70 - 131	5	20
1,4-Dichlorobenzene	50.0	52.4		ug/Kg		105	70 - 130	4	20
1,3-Dichloropropane	50.0	50.8		ug/Kg		102	70 - 140	2	20
1,1-Dichloropropene	50.0	54.4		ug/Kg		109	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	50.0	50.1		ug/Kg		100	60 - 145	1	20
Ethylene Dibromide	50.0	53.7		ug/Kg		107	70 - 140	3	20
Dibromomethane	50.0	53.7		ug/Kg		107	70 - 139	3	20
Dichlorodifluoromethane	50.0	38.4		ug/Kg		77	37 - 158	3	20
1,1-Dichloroethane	50.0	50.0		ug/Kg		100	70 - 130	1	20
1,2-Dichloroethane	50.0	53.9		ug/Kg		108	70 - 130	2	20
1,1-Dichloroethene	50.0	47.6		ug/Kg		95	76 - 122	2	20
cis-1,2-Dichloroethene	50.0	51.6		ug/Kg		103	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	46.9		ug/Kg		94	67 - 130	1	20
1,2-Dichloropropane	50.0	46.1		ug/Kg		92	73 - 127	0	20
cis-1,3-Dichloropropene	50.0	52.0		ug/Kg		104	68 - 147	2	20
trans-1,3-Dichloropropene	50.0	55.6		ug/Kg		111	70 - 136	0	20
Ethylbenzene	50.0	50.8		ug/Kg		102	80 - 137	1	20
Hexachlorobutadiene	50.0	49.9		ug/Kg		100	70 - 132	7	20
2-Hexanone	250	210		ug/Kg		84	44 - 133	12	20
Isopropylbenzene	50.0	53.0		ug/Kg		106	88 - 128	1	20
4-Isopropyltoluene	50.0	51.4		ug/Kg		103	70 - 133	4	20
Methylene Chloride	50.0	42.0		ug/Kg		84	70 - 134	2	20
4-Methyl-2-pentanone (MIBK)	250	215		ug/Kg		86	60 - 160	9	20
Naphthalene	50.0	47.9		ug/Kg		96	60 - 147	4	20
N-Propylbenzene	50.0	49.4		ug/Kg		99	70 - 130	1	20
Styrene	50.0	52.5		ug/Kg		105	70 - 130	2	20
1,1,1,2-Tetrachloroethane	50.0	53.3		ug/Kg		107	70 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	45.6		ug/Kg		91	70 - 146	1	20
Tetrachloroethene	50.0	54.5		ug/Kg		109	70 - 132	1	20
Toluene	50.0	50.7		ug/Kg		101	80 - 128	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-147228/6
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene			50.0	47.7		ug/Kg		95	60 - 140	7	20
1,2,4-Trichlorobenzene			50.0	50.5		ug/Kg		101	60 - 140	7	20
1,1,1-Trichloroethane			50.0	59.3		ug/Kg		119	70 - 130	1	20
1,1,2-Trichloroethane			50.0	50.5		ug/Kg		101	70 - 130	1	20
Trichloroethene			50.0	51.4		ug/Kg		103	70 - 133	1	20
Trichlorofluoromethane			50.0	59.0		ug/Kg		118	60 - 140	1	20
1,2,3-Trichloropropane			50.0	51.8		ug/Kg		104	70 - 146	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	53.9		ug/Kg		108	60 - 140	1	20
1,2,4-Trimethylbenzene			50.0	51.0		ug/Kg		102	70 - 130	3	20
1,3,5-Trimethylbenzene			50.0	50.9		ug/Kg		102	70 - 131	2	20
Vinyl acetate			50.0	50.4		ug/Kg		101	38 - 176	9	20
Vinyl chloride			50.0	45.0		ug/Kg		90	58 - 125	2	20
m-Xylene & p-Xylene			100	104		ug/Kg		104	70 - 146	1	20
o-Xylene			50.0	52.9		ug/Kg		106	70 - 140	0	20
2,2-Dichloropropane			50.0	57.8		ug/Kg		116	70 - 162	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: LCSD 720-147228/8
Matrix: Solid
Analysis Batch: 147228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	880		ug/Kg		88	61 - 128	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*96*		*58 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-147447/1-A
Matrix: Solid
Analysis Batch: 147436

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 147447

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		10/31/13 09:10	11/01/13 01:52	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		10/31/13 09:10	11/01/13 01:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.001*		*0 - 1*	*10/31/13 09:10*	*11/01/13 01:52*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-147447/1-A
Matrix: Solid
Analysis Batch: 147436

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 147447

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	*124*		*38 - 148*	*10/31/13 09:10*	*11/01/13 01:52*	*1*

Lab Sample ID: LCS 720-147447/2-A
Matrix: Solid
Analysis Batch: 147436

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 147447

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			83.3	66.2		mg/Kg		80	36 - 112		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*97*		*38 - 148*

Lab Sample ID: LCSD 720-147447/3-A
Matrix: Solid
Analysis Batch: 147436

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 147447

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.9	71.9		mg/Kg		87	36 - 112	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	*98*		*38 - 148*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-147332/1-A
Matrix: Solid
Analysis Batch: 147420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 147332

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Arsenic	ND		1.0		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Barium	ND		0.50		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Beryllium	ND		0.10		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Cadmium	ND		0.13		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Chromium	ND		0.50		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Cobalt	ND		0.20		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Copper	ND		1.5		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Lead	ND		0.50		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Molybdenum	ND		0.50		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Nickel	ND		0.50		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Selenium	ND		1.0		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Silver	ND		0.25		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Thallium	ND		0.50		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Vanadium	ND		0.50		mg/Kg		10/29/13 22:04	10/30/13 18:01	1
Zinc	ND		1.5		mg/Kg		10/29/13 22:04	10/30/13 18:01	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 720-147332/2-A
Matrix: Solid
Analysis Batch: 147420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147332

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	44.0		mg/Kg		88	80 - 120
Arsenic	50.0	44.9		mg/Kg		90	80 - 120
Barium	50.0	45.7		mg/Kg		91	80 - 120
Beryllium	50.0	44.6		mg/Kg		89	80 - 120
Cadmium	50.0	46.1		mg/Kg		92	80 - 120
Chromium	50.0	46.4		mg/Kg		93	80 - 120
Cobalt	50.0	46.7		mg/Kg		93	80 - 120
Copper	50.0	46.1		mg/Kg		92	80 - 120
Lead	50.0	45.9		mg/Kg		92	80 - 120
Molybdenum	50.0	47.0		mg/Kg		94	80 - 120
Nickel	50.0	46.1		mg/Kg		92	80 - 120
Selenium	50.0	43.3		mg/Kg		87	80 - 120
Silver	25.0	23.3		mg/Kg		93	80 - 120
Thallium	50.0	46.0		mg/Kg		92	80 - 120
Vanadium	50.0	45.3		mg/Kg		91	80 - 120
Zinc	50.0	45.8		mg/Kg		92	80 - 120

Lab Sample ID: LCSD 720-147332/3-A
Matrix: Solid
Analysis Batch: 147420

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 147332

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	44.4		mg/Kg		89	80 - 120	1	20
Arsenic	50.0	45.0		mg/Kg		90	80 - 120	0	20
Barium	50.0	45.6		mg/Kg		91	80 - 120	0	20
Beryllium	50.0	44.6		mg/Kg		89	80 - 120	0	20
Cadmium	50.0	45.9		mg/Kg		92	80 - 120	0	20
Chromium	50.0	46.2		mg/Kg		92	80 - 120	0	20
Cobalt	50.0	46.8		mg/Kg		94	80 - 120	0	20
Copper	50.0	45.9		mg/Kg		92	80 - 120	0	20
Lead	50.0	45.9		mg/Kg		92	80 - 120	0	20
Molybdenum	50.0	47.0		mg/Kg		94	80 - 120	0	20
Nickel	50.0	46.1		mg/Kg		92	80 - 120	0	20
Selenium	50.0	43.2		mg/Kg		86	80 - 120	0	20
Silver	25.0	23.2		mg/Kg		93	80 - 120	0	20
Thallium	50.0	45.9		mg/Kg		92	80 - 120	0	20
Vanadium	50.0	45.1		mg/Kg		90	80 - 120	1	20
Zinc	50.0	45.7		mg/Kg		91	80 - 120	0	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-147330/1-A
Matrix: Solid
Analysis Batch: 147390

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 147330

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		10/29/13 21:51	10/30/13 13:08	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 720-147330/2-A
Matrix: Solid
Analysis Batch: 147390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147330

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.892		mg/Kg		107	80 - 120

Lab Sample ID: LCSD 720-147330/3-A
Matrix: Solid
Analysis Batch: 147390

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 147330

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.833	0.842		mg/Kg		101	80 - 120	6	20

GC/MS VOA

Analysis Batch: 147189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53329-5	EX1/2-2-SPOILS-COMP.A	Total/NA	Solid	8260B	147249
LCS 720-147189/6	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-147189/8	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-147189/7	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-147189/9	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-147189/5	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 147228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53329-10	EX1/2-2-SPOILS-COMP.B	Total/NA	Solid	8260B	147269
LCS 720-147228/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-147228/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-147228/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-147228/8	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-147228/4	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 147249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53329-5	EX1/2-2-SPOILS-COMP.A	Total/NA	Solid	5030B	

Prep Batch: 147269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53329-10	EX1/2-2-SPOILS-COMP.B	Total/NA	Solid	5030B	

GC Semi VOA

Analysis Batch: 147434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53329-5	EX1/2-2-SPOILS-COMP.A	Silica Gel Cleanup	Solid	8015B	147447
720-53329-10	EX1/2-2-SPOILS-COMP.B	Silica Gel Cleanup	Solid	8015B	147447

Analysis Batch: 147436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-147447/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	147447
LCSD 720-147447/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	147447
MB 720-147447/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	147447

Prep Batch: 147447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53329-5	EX1/2-2-SPOILS-COMP.A	Silica Gel Cleanup	Solid	3546	
720-53329-10	EX1/2-2-SPOILS-COMP.B	Silica Gel Cleanup	Solid	3546	
LCS 720-147447/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-147447/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-147447/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Metals

Prep Batch: 147330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53329-5	EX1/2-2-SPOILS-COMP.A	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 147330 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53329-10	EX1/2-2-SPOILS-COMP.B	Total/NA	Solid	7471A	
LCS 720-147330/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-147330/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-147330/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 147332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53329-5	EX1/2-2-SPOILS-COMP.A	Total/NA	Solid	3050B	
720-53329-10	EX1/2-2-SPOILS-COMP.B	Total/NA	Solid	3050B	
LCS 720-147332/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-147332/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
MB 720-147332/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 147390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53329-5	EX1/2-2-SPOILS-COMP.A	Total/NA	Solid	7471A	147330
720-53329-10	EX1/2-2-SPOILS-COMP.B	Total/NA	Solid	7471A	147330
LCS 720-147330/2-A	Lab Control Sample	Total/NA	Solid	7471A	147330
LCSD 720-147330/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	147330
MB 720-147330/1-A	Method Blank	Total/NA	Solid	7471A	147330

Analysis Batch: 147420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-53329-5	EX1/2-2-SPOILS-COMP.A	Total/NA	Solid	6010B	147332
720-53329-10	EX1/2-2-SPOILS-COMP.B	Total/NA	Solid	6010B	147332
LCS 720-147332/2-A	Lab Control Sample	Total/NA	Solid	6010B	147332
LCSD 720-147332/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	147332
MB 720-147332/1-A	Method Blank	Total/NA	Solid	6010B	147332

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53329-1

Client Sample ID: EX1/2-2-SPOILS-COMP.A

Lab Sample ID: 720-53329-5

Date Collected: 10/25/13 13:10

Matrix: Solid

Date Received: 10/25/13 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			147249	10/28/13 19:00	ASC	TAL PLS
Total/NA	Analysis	8260B		1	147189	10/29/13 04:03	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			147447	10/31/13 09:10	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	147434	10/31/13 19:55	JL	TAL PLS
Total/NA	Prep	7471A			147330	10/29/13 21:51	ASB	TAL PLS
Total/NA	Analysis	7471A		1	147390	10/30/13 14:08	EFH	TAL PLS
Total/NA	Prep	3050B			147332	10/29/13 22:04	CTD	TAL PLS
Total/NA	Analysis	6010B		4	147420	10/30/13 19:56	SLK	TAL PLS

Client Sample ID: EX1/2-2-SPOILS-COMP.B

Lab Sample ID: 720-53329-10

Date Collected: 10/25/13 13:30

Matrix: Solid

Date Received: 10/25/13 15:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			147269	10/29/13 10:00	YYB	TAL PLS
Total/NA	Analysis	8260B		1	147228	10/29/13 17:14	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			147447	10/31/13 09:10	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	147434	10/31/13 20:25	JL	TAL PLS
Total/NA	Prep	7471A			147330	10/29/13 21:51	ASB	TAL PLS
Total/NA	Analysis	7471A		1	147390	10/30/13 14:10	EFH	TAL PLS
Total/NA	Prep	3050B			147332	10/29/13 22:04	CTD	TAL PLS
Total/NA	Analysis	6010B		4	147420	10/30/13 20:01	SLK	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53329-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-14

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53329-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hansen

TestAmerica Job ID: 720-53329-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-53329-5	EX1/2-2-SPOILS-COMP.A	Solid	10/25/13 13:10	10/25/13 15:20
720-53329-10	EX1/2-2-SPOILS-COMP.B	Solid	10/25/13 13:30	10/25/13 15:20

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TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 600-3002

720-53329

Reference #: 149628

Date 10/25/13 (F.) Page 1 of 1

11/1/2013

Report To

Attn: James Schwartz
Company: Haley & Aldrich
Address: 2033 N. Main St., Walnut Creek, CA.
Email: jschwartz@haleyaldrich.com
Bill To: Haley & Aldrich
Sampled By: VT, BJM
Attn: Accounts Payable
Phone: 925.357.7355

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) X EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: X Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B X Silica Gel X Diesel X Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease ☐ Petroleum ☐ Total (EPA 1664/9071)	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other ___	Metals. ☐ 6020 ☐ 200.8 (ICP-MS). ___	WET (STLC) ☐ WET (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Please composite samples from 0-2 ft bgs. Lump Sample Bottle 2 Soils Comp Sample Bottle 2 Soils Comp Sample Bottle 2 Soils Comp	Number of Containers
Ex1/2-2-Spoils-1	10/25/13	1310	Soil	unp.																			X		1
Ex1/2-2-Spoils-2	10/25/13	1315	Soil	unp.																			X		1
Ex1/2-2-Spoils-3	10/25/13	1320	Soil	unp.																			X		1
Ex1/2-2-Spoils-4	10/25/13	1325	Soil	unp.																			X		1
Ex1/2-2-Spoils-Comp-A					X		X	X					X												1
Ex1/2-2-Spoils-5	10/25/13	1330	Soil	unp.																				X	1
Ex1/2-2-Spoils-6	10/25/13	1335	Soil	unp.																				X	1
Ex1/2-2-Spoils-7	10/25/13	1340	Soil	unp.																				X	1
Ex1/2-2-Spoils-8	10/25/13	1345	Soil	unp.																				X	1
Ex1/2-2-Spoils-Comp-B					X		X	X					X												1

Project Info.

Project Name/ #: Former Hanson Aggregates Radium Facility
PO#: #39792

Sample Receipt

of Containers:
Head Space:
Temp: 1.9°C

Credit Card Y/N: If yes, please call with payment information ASAP

TAT: 10 Day | (5 Day) | 4 Day | 3 Day | 2 Day | 1 Day | Other.

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID ___

See Terms and Conditions on reverse

1) Relinquished by: [signature] 1520
Signature Time
Brendan T. Mulholland 10/25/13
Printed Name Date
Haley & Aldrich
Company

2) Relinquished by:
Signature Time
Printed Name Date
Company

3) Relinquished by:
Signature Time
Printed Name Date
Company

720-53329 Chain of Custody

1) Received by: [signature] 1520
Signature Time
T. Bulloch 10/25/13
Printed Name Date
TA
Company

2) Received by:
Signature Time
Printed Name Date
Company

3) Received by:
Signature Time
Printed Name Date
Company

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-53329-1

Login Number: 53329

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-58470-1
Client Project/Site: Hanson

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Jim Green

Authorized for release by:
7/10/2014 2:24:28 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58470-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-58470-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-58470-1

Comments
No additional comments.

Receipt
The samples were received on 7/7/2014 12:02 PM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 6.5º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58470-1

Client Sample ID: EX7-SPOILS-COMPA — Lab Sample ID: 720-58470-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.83		0.050		mg/L	1		6010B	STLC Citrate

This Detection Summary does not include radiochemical test results.

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58470-1

Client Sample ID: EX7-SPOILS-COMPA
Date Collected: 07/07/14 11:25
Date Received: 07/07/14 12:02

Lab Sample ID: 720-58470-5
Matrix: Solid

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.83		0.050		mg/L		07/09/14 14:10	07/09/14 20:41	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-162669/1-A
Matrix: Solid
Analysis Batch: 162722

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 162669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050		mg/L		07/09/14 14:10	07/09/14 20:04	1

Lab Sample ID: LCS 720-162669/2-A
Matrix: Solid
Analysis Batch: 162722

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 162669

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			1.00	0.978		mg/L		98	80 - 120		

Lab Sample ID: LCSD 720-162669/3-A
Matrix: Solid
Analysis Batch: 162722

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 162669

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1.00	0.979		mg/L		98	80 - 120	0	20

Lab Sample ID: LB4 720-162501/1-B
Matrix: Solid
Analysis Batch: 162722

Client Sample ID: Method Blank
Prep Type: STLC Citrate
Prep Batch: 162669

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.050		mg/L		07/09/14 14:10	07/09/14 20:09	1

Lab Sample ID: 720-58470-5 MS
Matrix: Solid
Analysis Batch: 162722

Client Sample ID: EX7-SPOILS-COMPA
Prep Type: STLC Citrate
Prep Batch: 162669

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	0.83		10.0	10.4		mg/L		96	75 - 125		

Lab Sample ID: 720-58470-5 MSD
Matrix: Solid
Analysis Batch: 162722

Client Sample ID: EX7-SPOILS-COMPA
Prep Type: STLC Citrate
Prep Batch: 162669

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.83		10.0	10.4		mg/L		96	75 - 125	0	20

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58470-1

Metals

Leach Batch: 162501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58470-5	EX7-SPOILS-COMPA	STLC Citrate	Solid	CA WET Citrate	
720-58470-5 MS	EX7-SPOILS-COMPA	STLC Citrate	Solid	CA WET Citrate	
720-58470-5 MSD	EX7-SPOILS-COMPA	STLC Citrate	Solid	CA WET Citrate	
LB4 720-162501/1-B	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 162669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58470-5	EX7-SPOILS-COMPA	STLC Citrate	Solid	3005A	162501
720-58470-5 MS	EX7-SPOILS-COMPA	STLC Citrate	Solid	3005A	162501
720-58470-5 MSD	EX7-SPOILS-COMPA	STLC Citrate	Solid	3005A	162501
LB4 720-162501/1-B	Method Blank	STLC Citrate	Solid	3005A	162501
LCS 720-162669/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-162669/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-162669/1-A	Method Blank	Total Recoverable	Solid	3005A	

Analysis Batch: 162722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58470-5	EX7-SPOILS-COMPA	STLC Citrate	Solid	6010B	162669
720-58470-5 MS	EX7-SPOILS-COMPA	STLC Citrate	Solid	6010B	162669
720-58470-5 MSD	EX7-SPOILS-COMPA	STLC Citrate	Solid	6010B	162669
LB4 720-162501/1-B	Method Blank	STLC Citrate	Solid	6010B	162669
LCS 720-162669/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	162669
LCSD 720-162669/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	162669
MB 720-162669/1-A	Method Blank	Total Recoverable	Solid	6010B	162669

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58470-1

Client Sample ID: EX7-SPOILS-COMPA — **Lab Sample ID: 720-58470-5**
Date Collected: 07/07/14 11:25 — **Matrix: Solid**
Date Received: 07/07/14 12:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			162501	07/07/14 14:27	ECT	TAL PLS
STLC Citrate	Prep	3005A			162669	07/09/14 14:10	ECT	TAL PLS
STLC Citrate	Analysis	6010B		1	162722	07/09/14 20:41	SLK	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58470-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58470-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Hanson

TestAmerica Job ID: 720-58470-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-58470-5	EX7-SPOILS-COMPA	Solid	07/07/14 11:25	07/07/14 12:02

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TESTAMERICA Pleasanton Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 Fax: (925) 600-3002

720-58470

Reference #: 154792

Date 7/7/14 Page 1 of 1

7/10/2014

Report To

Attn: Jim Green
Company: Haley & Aldrich
Address: 2033 N. Main st Walnutcreek, CA
Email: JGreen@HaleyAldrich.com
Bill To: Haley & Aldrich
Sampled By: V. Tilotta
Attn: Accounts Payable
Phone: 925.949.1016

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B: ☐ Gas ☐ BTEX ☐ 5 Oxygenates ☐ DCA, EDB ☐ Ethanol	TEPH EPA 8015B ☐ Silica Gel ☐ Diesel ☐ Motor Oil ☐ Other	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐ 200.7 ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Metals: ☐ 6020 ☐ 200.8 (ICP-MS):	W.E.T (STLC)-Lead ☐ W.E.T (DI) ☐ TCLP	Hex. Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond. ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity	Please composite 4 jars in Lab		Number of Containers
EX7-Spoils-compA	7/7/14	1125	Soil	Ice												X								X		4

RUSH

Page 13 of 14

Project Info.

Project Name/ #: Former Hanson Aggregates Radum Plant 39792 048
PO#: 39792-048

Sample Receipt

of Containers:
Head Space:
Temp: 6.5°C

Credit Card Y/N: If yes, please call with payment information ASAP

TAT: 10 Day | 5 Day | 4 Day | (3 Day) | 2 Day | 1 Day | Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments: ☐ Global ID _____

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1202	Signature: Time:	Signature: Time:
Printed Name: Vincent Tilotta Date: 7/7/14	Printed Name: Date:	Printed Name: Date:
Company: Haley & Aldrich	Company:	Company:

720-58470 Chain of Custody

1) Received by:	2) Receiv	ed by:
Signature: [signature] Time: 1202	Signature: Time:	Signature: Time:
Printed Name: Mulberry Date: 7-7-14	Printed Name: Date:	Printed Name: Date:
Company: [signature]	Company:	Company:

Rev.10/2012

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 720-58470-1

Login Number: 58470

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX B

Previous Environmental Data

TABLE 1

SUMMARY OF PRELIMINARY ANALYTICAL RESULTS - SOIL

Hanson Aggregates Site

3000 Busch Road
Pleasanton, California

Sample ID	AOC Number	Sample Date	Sample Depth (ft)	TPH-d (C_{10}-C_{28})	TPH-mo (C_{24}-C_{36})	TPH-g (C_5-C_{12})	PCBs: Individual Analytes Listed on Analytical Report prepared by laboratory	Organo-chlorine Pesticides: Individual Analytes Listed on Analytical Report prepared by laboratory	Chlorinated Herbicides: Individual Analytes Listed on Analytical Report prepared by laboratory	VOCs – BTEX (mg/kg): Benzene	Toluene	Ethylbenzene	Xylenes (total)	VOCs – Other: n-Butylbenzene	sec-Butylbenzene	Isopropylbenzene	Naphthalene	N-Propylbenzene	Other (in U.S. EPA 8260 list by GC/MS)
				Concentration (mg/kg)			Concentration (µg/kg)												
2016 Tier 1 ESLs				230	5100	100	0.25	NA	NA	0.044	2.9	1.4	2.3	NA	NA	NA	0.03	NA	NA
AP1-1	AOC 1	9/26/06	1	4.4	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP1-8	AOC 1	9/26/06	8	<0.99	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP1a-11	AOC 1	9/26/06	11	9.0	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP2-2	AOC 1	9/26/06	2	3.1	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP2-8	AOC 1	9/26/06	8	1.5	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP2-13	AOC 1	9/26/06	13	1.6	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP3-2	AOC 1	9/26/06	2	3.7	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP3-8	AOC 1	9/26/06	8	1.1	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP3-15	AOC 1	9/26/06	15	1.6	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP4-9-10	AOC 1	9/26/06	9-10	5600	<50	na	na	na	na	na	na	na	na	1500	990	na	2400	na	na
AP5-2	AOC 1	9/27/06	2	<0.99	<49	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP5-8	AOC 1	9/27/06	8	2.6	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP5-15	AOC 1	9/27/06	15	<1.0	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
CB-0.5	AOC 4	9/29/06	0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
CB-8	AOC 4	9/27/06	8	<0.99	<49	na	na	na	na	na	na	na	na	na	na	na	na	na	na
COMPSP-1		9/1/06	0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
COMPSPA-1		9/1/06	0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
CONCRETE		10/18/06		na	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na
CR-8	AOC 5	9/27/06	8	<0.99	<49	na	na	na	na	na	na	na	na	na	na	na	na	na	na
CPI	No AOC	10/11/06	3	93	360	<0.24	na	na	na	<0.0048	<0.0048	<0.0048	<0.0097	na	na	na	na	na	na
DR-0.5	AOC 3, 5	10/11/06	0.5	1.7	<50	<0.25	na	na	na	<0.0050	<0.0050	<0.0050	<0.010	na	na	na	na	na	na
EB1-2	AOC 2	9/28/06	2	<0.99	<50	<0.25	ND	na	na	<0.0050	<0.0050	<0.0050	<0.010	na	na	na	na	na	na
EB1-9	AOC 2	9/28/06	9	<1.0	<50	<0.25	ND	na	na	<0.0050	<0.0050	<0.0050	<0.0099	na	na	na	na	na	na
EB1-14	AOC 2	9/28/06	14	<0.99	<50	<0.25	ND	na	na	<0.0050	<0.0050	<0.0050	<0.010	na	na	na	na	na	na
EB1-19	AOC 2	9/28/06	19	<0.99	<49	<0.25	ND	na	na	<0.0050	<0.0050	<0.0050	<0.010	na	na	na	na	na	na
EB2-5.5	AOC 2	9/29/06	5.5	<0.99	<50	<0.25	ND	na	na	<0.0050	<0.0050	<0.0050	<0.0099	na	na	na	na	na	na
EB2-9	AOC 2	9/29/06	9	<0.98	<49	<0.25	ND	na	na	<0.0049	<0.0049	<0.0049	<0.0098	na	na	na	na	na	na
EB2-14	AOC 2	9/29/06	14	<0.99	<50	<0.25	ND	na	na	<0.0050	<0.0050	<0.0050	<0.0099	na	na	na	na	na	na
EB2-19	AOC 2	9/29/06	19	<1.0	<50	<0.24	ND	na	na	<0.0048	<0.0048	<0.0048	<0.0096	na	na	na	na	na	na
EB2-24	AOC 2	9/29/06	24	<0.99	<49	<0.24	ND	na	na	<0.0048	<0.0048	<0.0048	<0.0095	na	na	na	na	na	na
EB2-29	AOC 2	9/29/06	29	<0.99	<50	<0.25	ND	na	na	<0.0049	<0.0049	<0.0049	<0.0098	na	na	na	na	na	na
EB3-2	AOC 3	10/2/06	2	6.4	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB3-6	AOC 3	10/2/06	6	<0.99	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB3-15	AOC 3	10/2/06	15	<1.0	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB4-2	AOC 3	10/2/06	2	1.8	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB4-6	AOC 3	10/2/06	6	<1.0	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB4-15	AOC 3	10/2/06	15	<0.99	<49	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB5-2	AOC 3	10/2/06	2	170	<49	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB5-6	AOC 3	10/2/06	6	<0.99	<49	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB5-15	AOC 3	10/2/06	15	37	77	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB6-20	AOC 2	10/2/06	20	<0.99	<49	<0.22	na	na	na	<0.0043	<0.0043	<0.0043	<0.0087	na	na	na	na	na	na
EB7-2	AOC 2	10/2/06	2	<0.99	<49	<0.25	na	na	na	<0.0049	<0.0049	<0.0049	<0.0098	na	na	na	na	na	na
EB7-6	AOC 2	10/2/06	6	<0.99	<50	<0.22	na	na	na	<0.0043	<0.0043	<0.0043	<0.0087	na	na	na	na	na	na
EB7-15	AOC 2	10/2/06	15	<1.0	<50	<0.25	na	na	na	<0.0049	<0.0049	<0.0049	<0.0098	na	na	na	na	na	na
EB8-2	AOC 2	10/2/06	2	2.5	<50	<0.24	na	na	na	<0.0048	<0.0048	<0.0048	<0.0096	na	na	na	na	na	na
EB8-6	AOC 2	10/2/06	6	<0.99	<49	<0.25	na	na	na	<0.0050	<0.0050	<0.0050	<0.0099	na	na	na	na	na	na
EB8-15	AOC 2	10/2/06	15	<0.99	<49	<0.24	na	na	na	<0.0049	<0.0049	<0.0049	<0.0097	na	na	na	na	na	na
EB9-5	AOC 1	10/9/06	5	3.5	<49	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB9-10	AOC 1	10/9/06	10	1.1	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB9-20	AOC 1	10/9/06	20	1.9	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB10-5	AOC 1	10/9/06	5	1.7	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB10-10	AOC 1	10/9/06	10	<1.0	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB10-25	AOC 1	10/9/06	25	1.3	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB11-20	AOC 1	10/9/06	5	<1.0	<50	<0.24	na	na	na	<0.0049	<0.0049	<0.0049	<0.0097	na	na	na	na	na	na
EB12-20	AOC 1	10/9/06	20	<1.0	<50	<0.25	na	na	na	<0.0050	<0.0050	<0.0050	<0.010	na	na	na	na	na	na
EB13-10	AOC 1	10/9/06	10	400	240	530	na	na	na	<2.0	<2.0	<2.0	<4.0	na	na	na	na	na	na
EB13-15	AOC 1	10/9/06	15	<0.99	<50	0.33	na	na	na	<0.0050	<0.0050	<0.0050	<0.0099	na	na	na	na	na	na
EB13-20	AOC 1	10/9/06	20	16	<50	0.31	na	na	na	<0.0050	<0.0050	<0.0050	<0.0099	na	na	na	na	na	na

Sample ID	SVOCs – PAHs: Naphthalene	Acenaphthene	Acenaphthylene	Fluorene	Phenanthrene	Anthracene	Benzo (a) anthracene	Chrysene	Benzo (a) pyrene	Benzo (b) flouranthene	Benzo (k) fluoranthene	Benzo (g,h,i) perylene	Indeno (1,2,3-cd) pyrene	Flouranthene	Pyrene	Dibenz (a,h) anthracene	Other SVOCs: Phenol	Other SVOCs (in U.S. EPA 8270C List by GC/MS)
	Concentration (µg/kg)																	
2016 Tier 1 ESLs	0.033	16	13	8.9	11	NA	0.16	3.8	0.016	0.16	1.6	2.5	0.16	60	85	0.016	0.076	NA
AP1-1	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP1-8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP1a-11	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP2-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP2-8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP2-13	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP3-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP3-8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP3-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP4-9-10	1800	<250	<250	3200	5000	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	na	na
AP5-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP5-8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP5-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
CB-0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
CB-8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
COMPSP-1	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
COMPSPA-1	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
CONCRETE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
CR-8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
CPI	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
DR-0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB1-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB1-9	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB1-14	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB1-19	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB2-5.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB2-9	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB2-14	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB2-19	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB2-24	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB2-29	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB3-2	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	na	na
EB3-6	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	na	na
EB3-15	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	na	na
EB4-2	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	na	na
EB4-6	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	na	na
EB4-15	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	na	na
EB5-2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	na	na
EB5-6	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	na	na
EB5-15	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	na	na
EB6-20	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB7-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB7-6	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB7-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB8-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB8-6	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB8-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB9-5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB9-10	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB9-20	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB10-5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB10-10	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB10-25	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB11-20	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB12-20	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB13-10	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB13-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB13-20	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Sample ID	Metals: Silver	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Hexavalent Chromium	Copper	Magnesium	Molybdenum	Nickel	Lead	Antimony	Selenium	Thallium	Vanadium	Zinc	Mercury (mg/kg)	STLC Citrate (mg/L): Arsenic	Copper	Nickel	pH (pH units)
	Concentration (mg/kg) – Metals (mg/kg)																						
2016 Tier 1 ESLs	390	11 [a]	3000	42	39	23	120000 [b]	NA	3100	NA	390	820 [c]	80	31	390	0.78	390	23000	13	10	3.1	8.2	NA
AP1-1	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP1-8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP1a-11	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP2-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP2-8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP2-13	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP3-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP3-8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP3-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP4-9-10	<0.99	4.0	130	<0.50	<0.50	12	52	na	26	na	<0.99	72	6.2	<2.0	<2.0	<0.99	25	43	<0.050	na	na	na	na
AP5-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP5-8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
AP5-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
CB-0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	8.11
CB-8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
COMPSP-1	<1.0	3.8	620	<2.0	<1.0	<5.0	17	na	<5.0	na	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	24	<5.0	<0.10	na	na	na	na
COMPSPA-1	<1.0	2.2	620	<2.0	<1.0	<5.0	18	na	<5.0	na	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0	25	<5.0	<0.10	na	na	na	na
CONCRETE	<0.95	3.9	67	<0.48	<0.48	4.2	21	1.6	31	na	<0.95	31	2.9	<1.9	<1.9	<0.95	19	45	<0.051	na	na	na	na
CR-8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
CPI	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
DR-0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB1-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB1-9	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB1-14	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB1-19	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB2-5.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB2-9	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB2-14	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB2-19	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB2-24	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB2-29	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB3-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB3-6	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB3-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB4-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB4-6	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB4-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB5-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB5-6	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB5-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB6-20	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB7-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB7-6	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB7-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB8-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB8-6	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB8-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB9-5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB9-10	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB9-20	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB10-5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB10-10	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB10-25	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB11-20	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB12-20	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB13-10	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB13-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB13-20	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

TABLE 1
SUMMARY OF PRELIMINARY ANALYTICAL RESULTS - SOIL

Hanson Aggregates Site

3000 Busch Road
Pleasanton, California

Sample ID	AOC Number	Sample Date	Sample Depth (ft)	Concentration (mg/kg): TPH-d (C_{10}-C_{28})	TPH-mo (C_{24}-C_{36})	TPH-g (C_7-C_{12})	Concentration (µg/kg): PCBs (Individual Analytes Listed on Analytical Report prepared by laboratory)	Organo-chlorine Pesticides (Individual Analytes Listed on Analytical Report prepared by laboratory)	Chlorinated Herbicides (Individual Analytes Listed on Analytical Report prepared by laboratory)	VOCs, BTEX (mg/kg): Benzene	Toluene	Ethylbenzene	Xylenes (total)
2016 Tier 1 ESLs				230	5100	100	0.25	NA	NA	0.044	2.9	1.4	2.3
EB-14@2'	**AOC 1**	10/19/06	2	**140**	<490	<0.25	na	na	na	<0.0050	<0.0050	<0.0050	<0.010
EB-14@6'	**AOC 1**	10/19/06	6	<0.99	<50	<0.25	na	na	na	<0.0050	<0.0050	<0.0050	<0.010
EB-14@15'	**AOC 1**	10/19/06	15	<0.99	<50	<0.25	na	na	na	<0.0050	<0.0050	<0.0050	<0.0099
EB-14@33.5'	**AOC 1**	10/19/06	33.5	**7800**	**8700**	**32**	na	na	na	<0.025	<0.025	<0.025	<0.049
EB-14@43.5'	**AOC 1**	10/19/06	43.5	**2.2**	<50	<0.25	na	na	na	<0.0049	<0.0049	<0.0049	<0.0099
EB-15@2'	**AOC 1**	10/19/06	2	<0.97	<49	<0.24	na	na	na	<0.0049	<0.0049	<0.0049	<0.0098
EB-15@6'	**AOC 1**	10/19/06	6	<0.95	<48	<0.24	na	na	na	<0.0048	<0.0048	<0.0048	<0.0096
EB-15@10'	**AOC 1**	10/19/06	10	<0.99	<49	<0.25	na	na	na	<0.0050	<0.0050	<0.0050	<0.0099
EB-15@15'	**AOC 1**	10/19/06	15	<0.95	<47	<0.25	na	na	na	<0.0050	<0.0050	<0.0050	<0.0099
EB-16@2'	**AOC 1**	10/20/06	2	**20**	**60**	<0.23	na	na	na	<0.0045	<0.0045	<0.0045	<0.0090
EB-16@5'	**AOC 1**	10/20/06	5	**5.4**	<50	<0.22	na	na	na	<0.0044	<0.0044	<0.0044	<0.0088
EB-16@16.5'	**AOC 1**	10/20/06	16.5	**4.6**	<50	<0.21	na	na	na	<0.0043	<0.0043	<0.0043	<0.0085
EB17-6	**AOC 1**	10/20/06	6	<0.96	<48	<0.22	na	na	na	<0.0044	<0.0044	<0.0044	<0.0088
EB17-15	**AOC 1**	10/20/06	15	<0.97	<48	<0.24	na	na	na	<0.0047	<0.0047	<0.0047	<0.0095
EB18-15	**AOC 1**	10/20/06	15	<1.0	<50	<0.22	na	na	na	<0.0044	<0.0044	<0.0044	<0.0087
EB18-20	**AOC 1**	10/20/06	20	<0.95	<48	<0.22	na	na	na	<0.0045	<0.0045	<0.0045	<0.0090
EB19-10	**AOC 1**	10/20/06	10	**2.8**	<50	<0.22	na	na	na	<0.0045	<0.0045	<0.0045	<0.0090
EB19-15	**AOC 1**	10/20/06	15	**42**	**84**	<0.23	na	na	na	<0.0046	<0.0046	<0.0046	<0.0091
EB20-2	**AOC 1**	10/20/06	2	<0.98	<49	<0.25	na	na	na	<0.0050	<0.0050	<0.0050	<0.010
EB20-6	**AOC 1**	10/20/06	6	<0.96	<48	<0.23	na	na	na	<0.0046	<0.0046	<0.0046	<0.0092
EB27-40	**AOC 1**	10/25/06	40	<0.99	<50	<0.25	na	na	na	<0.0049	<0.0049	<0.0049	<0.0099
EB28-40	**AOC 1**	10/25/06	40	**1.3**	<50	<0.25	na	na	na	<0.0050	<0.0050	<0.0050	<0.0099
EB29-6	**AOC 1**	10/25/06	6	**7.0**	<50	<0.25	na	na	na	<0.0050	<0.0050	<0.0050	<0.010
EB29-10	**AOC 1**	10/25/06	10	<1.0	<50	<0.25	na	na	na	<0.0049	<0.0049	<0.0049	<0.0098
EB29-15	**AOC 1**	10/25/06	15	<0.99	<50	<0.24	na	na	na	<0.0048	<0.0048	<0.0048	<0.0096
EB29-35	**AOC 1**	10/25/06	35	<1.0	<50	<0.23	na	na	na	<0.0046	<0.0046	<0.0046	<0.0093
EB29-40	**AOC 1**	10/25/06	40	<0.99	<50	<0.22	na	na	na	<0.0043	<0.0043	<0.0043	<0.0087
EB30-5	**AOC 1**	10/26/06	5	**200**	**1300**	<0.25	na	na	na	<0.0050	<0.0050	<0.0050	<0.010
EB30-10	**AOC 1**	10/26/06	10	**1.6**	<49	<0.25	na	na	na	<0.0049	<0.0049	<0.0049	<0.0098
EB30-15	**AOC 1**	10/26/06	15	**7.6**	**50**	<0.24	na	na	na	<0.0048	<0.0048	<0.0048	<0.0097
EB30-35	**AOC 1**	10/26/06	35	<1.0	<50	<0.25	na	na	na	<0.0050	<0.0050	<0.0050	<0.010
EB30-40	**AOC 1**	10/26/06	40	<0.99	<49	<0.25	na	na	na	<0.0049	<0.0049	<0.0049	<0.0098
EB31-5	**AOC 2**	10/26/06	5	<0.98	<49	<0.25	na	na	na	<0.0049	<0.0049	<0.0049	<0.0099
EB31-10	**AOC 2**	10/26/06	10	**120**	**920**	<0.25	na	na	na	<0.0050	<0.0050	<0.0050	<0.010
EB31-20	**AOC 2**	10/26/06	20	<0.99	<50	<0.25	na	na	na	<0.0050	<0.0050	<0.0050	<0.010
EB31-55	**AOC 2**	10/26/06	55	<1.0	<50	<0.25	na	na	na	<0.0050	<0.0050	<0.0050	<0.010
EB32-35	**AOC 1**	10/26/06	35	<0.98	<49	<0.25	na	na	na	<0.0050	<0.0050	<0.0050	<0.010
EB32-40	**AOC 1**	10/26/06	40	<0.99	<50	<0.24	na	na	na	<0.0049	<0.0049	<0.0049	<0.0098
EB33-40	**AOC 1**	10/26/06	40	**13**	<50	**0.29**	na	na	na	<0.0049	<0.0049	<0.0049	<0.0098
EB34-35	**AOC 1**	10/26/06	35	<0.98	<49	<0.24	na	na	na	<0.0047	<0.0047	<0.0047	<0.0095
EB34-40	**AOC 1**	10/26/06	40	<0.98	<49	<0.23	na	na	na	<0.0047	<0.0047	<0.0047	<0.0093
LS-1	**AOC 3**	9/29/06	1	**24**	<49	na	na	na	na	na	na	na	na
LS-8	**AOC 3**	9/29/06	8	<1.0	<50	na	na	na	na	na	na	na	na
LS-15	**AOC 3**	9/29/06	15	**19**	<50	na	na	na	na	na	na	na	na
PL-2	**AOC 3, 5**	9/28/06	2	<0.99	<50	na	na	na	na	na	na	na	na
PL-8	**AOC 3, 5**	9/28/06	8	<0.99	<49	na	na	na	na	na	na	na	na
PL-16	**AOC 3, 5**	9/28/06	16	<0.99	<49	na	na	na	na	na	na	na	na
PO1-12	**AOC 1**	9/27/06	12	**4.7**	<49	na	na	na	na	na	na	na	na
PO2-2	**AOC 1**	9/27/06	2	**43**	**280**	na	na	na	na	na	na	na	na
PO2-8	**AOC 1**	9/27/06	8	**2.2**	<50	na	na	na	na	na	na	na	na
PO2-15	**AOC 1**	9/27/06	15	<0.99	<50	na	na	na	na	na	na	na	na
PT-0.5	**AOC 4**	9/27/06	0.5	na	na	na	na	na	na	na	na	na	na
PT-5	**AOC 4**	9/27/06	5	na	na	na	na	na	na	na	na	na	na
PTA-0.2		10/18/06	0.2	na	na	na	ND	na	na	na	na	na	na
RM-2	**AOC 5**	9/28/06	2	**2.9**	<49	na	na	na	na	na	na	na	na
RM-8	**AOC 5**	9/28/06	8	**1.6**	<49	na	na	na	na	na	na	na	na
RM-15	**AOC 5**	9/28/06	15	**15**	**60**	na	na	na	na	na	na	na	na
RO-A	**AOC 9**	9/29/06	0.5	**11**	**82**	na	na	na	na	na	na	na	na
RO-B	**AOC 9**	9/29/06	0.5	**130**	**670**	na	na	na	na	na	na	na	na
RO-C	**AOC 9**	9/29/06	0.5	**6.1**	**61**	na	na	na	na	na	na	na	na

Sample ID	VOCs, Other: n-Butylbenzene	sec-Butylbenzene	Isopropylbenzene	Naphthalene	N-Propylbenzene	Other (in U.S. EPA 8260 list by GC/MS)	SVOCs, Polycyclic Aromatic Hydrocarbons (PAHs): Naphthalene	Acenaphthene	Acenaphthylene	Fluorene	Phenanthrene	Anthracene	Benzo (a) anthracene	Chrysene	Benzo (a) pyrene	Benzo (b) flouranthene	Benzo (k) flouranthene	Benzo (g,h,i) perylene	Indeno (1,2,3-cd) pyrene	Flouranthene	Pyrene	Dibenz (a,h) anthracene	Other SVOCs: Phenol	Other SVOCs (in U.S. EPA 8270C List by GC/MS)
2016 Tier 1 ESLs	NA	NA	NA	0.03	NA	NA	0.033	16	13	8.9	11	NA	0.16	3.8	0.016	0.16	1.6	2.5	0.16	60	85	0.016	0.076	NA
EB-14@2'	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB-14@6'	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB-14@15'	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB-14@33.5'	**120**	**41**	**63**	<48	**63**	ND	<250	**3100**	<250	**4500**	**12000**	**3300**	**2100**	**3500**	<250	<250	<250	**1000**	<250	<250	**4700**	<250	na	na
EB-14@43.5'	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB-15@2'	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB-15@6'	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB-15@10'	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB-15@15'	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB-16@2'	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB-16@5'	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB-16@16.5'	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB17-6	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB17-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB18-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB18-20	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB19-10	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB19-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB20-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB20-6	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB27-40	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB28-40	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB29-6	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB29-10	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB29-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB29-35	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB29-40	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB30-5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB30-10	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB30-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB30-35	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB30-40	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB31-5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB31-10	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB31-20	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB31-55	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB32-35	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB32-40	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB33-40	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB34-35	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
EB34-40	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LS-1	na	na	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND
LS-8	na	na	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND
LS-15	na	na	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND
PL-2	na	na	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND
PL-8	na	na	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND
PL-16	na	na	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND
PO1-12	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PO2-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PO2-8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PO2-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PT-0.5	na	na	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND
PT-5	na	na	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND
PTA-0.2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**0.10**	na
RM-2	na	na	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND
RM-8	na	na	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND
RM-15	na	na	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND
RO-A	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
RO-B	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
RO-C	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Sample ID	Concentration (mg/kg), Metals (mg/kg): Silver	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Hexavalent Chromium	Copper	Magnesium	Molybdenum	Nickel	Lead	Antimony	Selenium	Thallium	Vanadium	Zinc	Mercury (mg/kg)	STLC Citrate (mg/L): Arsenic	Copper	Nickel	pH (pH units)
2016 Tier 1 ESLs	390	11 [a]	3000	42	39	23	120000 [b]	NA	3100	NA	390	820 [c]	80	31	390	0.78	390	23000	13	10	3.1	8.2	NA
EB-14@2'	<0.98	**3.3**	**81**	<0.49	<0.49	**8.2**	**35**	na	**32**	na	<0.98	**52**	**6.5**	<2.0	<2.0	<0.98	**24**	**37**	**0.22**	na	na	na	na
EB-14@6'	<0.95	**1.8**	**53**	<0.48	<0.48	**3.8**	**15**	na	**9.7**	na	<0.95	**30**	**4.5**	<1.9	<1.9	<0.95	**7.9**	**19**	<0.048	na	na	na	na
EB-14@15'	<1.0	**4.6**	**140**	<0.51	<0.51	**6.4**	**25**	na	**20**	na	<1.0	**44**	**5.0**	<2.0	<2.0	<1.0	**18**	**32**	<0.052	na	na	na	na
EB-14@33.5'	<0.97	**1.2**	**56**	<0.49	<0.49	**3.9**	**21**	na	**8.8**	na	<0.97	**31**	**2.3**	<1.9	<1.9	<0.97	**12**	**22**	<0.048	na	na	na	na
EB-14@43.5'	<1.0	**5.8**	**150**	<0.50	<0.50	**12**	**55**	na	**28**	na	<1.0	**76**	**6.2**	<2.0	<2.0	<1.0	**26**	**44**	<0.051	na	na	na	na
EB-15@2'	<1.0	**2.7**	**55**	<0.51	<0.51	**5.4**	**32**	na	**34**	na	<1.0	**42**	**2.7**	<2.0	<2.0	<1.0	**14**	**33**	<0.050	na	na	na	na
EB-15@6'	<0.95	**3.3**	**68**	<0.48	<0.48	**7.1**	**31**	na	**19**	na	<0.95	**52**	**3.6**	<1.9	<1.9	<0.95	**20**	**34**	<0.049	na	na	na	na
EB-15@10'	<1.0	**3.3**	**55**	<0.51	<0.51	**7.5**	**37**	na	**15**	na	<1.0	**51**	**4.6**	<2.0	<2.0	<1.0	**18**	**29**	<0.050	na	na	na	na
EB-15@15'	<0.95	**2.2**	**49**	<0.48	<0.48	**6.0**	**27**	na	**13**	na	<0.95	**44**	**2.5**	<1.9	<1.9	<0.95	**13**	**20**	<0.048	na	na	na	na
EB-16@2'	<1.0	**3.3**	**130**	<0.51	<0.51	**8.4**	**52**	na	**42**	na	**1.4**	**42**	**35**	<2.0	<2.0	<1.0	**25**	**53**	<0.052	na	na	na	na
EB-16@5'	<1.0	**3.2**	**96**	<0.52	<0.52	**8.8**	**26**	na	**22**	na	<1.0	**40**	**6.4**	<2.1	<2.1	<1.0	**22**	**36**	<0.049	na	na	na	na
EB-16@16.5'	<1.0	**4.9**	**110**	<0.50	<0.50	**7.5**	**34**	na	**20**	na	**2.1**	**45**	**5.7**	<2.0	<2.0	<1.0	**22**	**35**	<0.048	na	na	na	na
EB17-6	<0.97	**2.6**	**46**	<0.49	<0.49	**7.5**	**40**	na	**36**	na	<0.97	**54**	**3.1**	<1.9	<1.9	<0.97	**19**	**38**	<0.050	na	na	na	na
EB17-15	<0.96	**5.2**	**150**	<0.48	<0.48	**12**	**55**	na	**31**	NA	<0.96	**75**	**6.4**	<1.9	<1.9	<0.96	**26**	**51**	**0.078**	na	na	na	na
EB18-15	<1.0	**5.0**	**140**	<0.51	<0.51	**12**	**53**	na	**33**	na	<1.0	**74**	**6.0**	<2.0	<2.0	<1.0	**25**	**45**	<0.048	na	na	na	na
EB18-20	<0.99	**2.6**	**66**	<0.50	<0.50	**6.4**	**27**	na	**18**	na	<0.99	**44**	**2.9**	<2.0	<2.0	<0.99	**18**	**31**	<0.052	na	na	na	na
EB19-10	<0.99	**4.7**	**110**	<0.50	<0.50	**10**	**65**	na	**57**	na	**4.7**	**63**	**6.4**	<2.0	<2.0	<0.99	**24**	**54**	<0.053	na	na	na	na
EB19-15	<1.0	**3.4**	**78**	<0.51	<0.51	**6.8**	**36**	na	**26**	na	<1.0	**38**	**5.2**	<2.0	<2.0	<1.0	**30**	**42**	<0.050	na	na	na	na
EB20-2	<1.0	**2.8**	**90**	<0.52	<0.52	**7.3**	**30**	na	**40**	na	<1.0	**46**	**2.9**	<2.1	<2.1	<1.0	**22**	**41**	<0.048	na	na	na	na
EB20-6	<10	**60**	**940**	<5.1	<5.1	**89**	**220**	na	**330**	na	<10	**310**	**34**	<20	<20	<10	**220**	**420**	<0.052	<0.50	**1.7**	**0.51**	na
EB27-40	<0.97	**5.1**	**150**	<0.49	<0.49	**12**	**63**	na	**27**	na	<0.97	**86**	**6.7**	<1.9	<1.9	<0.97	**27**	**46**	<0.048	na	na	na	na
EB28-40	<1.0	**4.2**	**130**	<0.50	<0.50	**10**	**57**	na	**22**	na	<1.0	**67**	**5.1**	<2.0	<2.0	<1.0	**27**	**37**	<0.050	na	na	na	na
EB29-6	<0.96	**4.3**	**130**	<0.48	<0.48	**11**	**59**	na	**24**	na	<0.96	**80**	**6.6**	<1.9	<1.9	<0.96	**27**	**39**	<0.050	na	na	na	na
EB29-10	<0.99	**4.1**	**150**	<0.50	<0.50	**9.9**	**42**	na	**21**	na	<0.99	**61**	**5.1**	<2.0	<2.0	<0.99	**26**	**37**	<0.048	na	na	na	na
EB29-15	<0.95	**3.7**	**95**	<0.48	<0.48	**11**	**32**	na	**24**	na	<0.95	**52**	**4.0**	<1.9	<1.9	<0.95	**28**	**39**	<0.048	na	na	na	na
EB29-35	<0.98	**3.8**	**130**	<0.49	<0.49	**9.2**	**41**	na	**23**	na	<0.98	**63**	**5.1**	<2.0	<2.0	<0.98	**23**	**32**	**0.18**	na	na	na	na
EB29-40	<0.95	**3.9**	**84**	<0.48	<0.48	**7.7**	**35**	na	**19**	na	<0.95	**47**	**6.7**	<1.9	<1.9	<0.95	**23**	**36**	**0.061**	na	na	na	na
EB30-5	<0.99	**3.4**	**78**	<0.50	<0.50	**8.6**	**39**	na	**26**	na	<0.99	**55**	**18**	<2.0	<2.0	<0.99	**23**	**36**	**0.071**	na	na	na	na
EB30-10	<0.98	**3.2**	**68**	<0.49	<0.49	**13**	**38**	na	**25**	na	<0.98	**55**	**3.2**	<2.0	<2.0	<0.98	**21**	**27**	<0.050	na	na	na	na
EB30-15	<0.96	**4.0**	**70**	<0.48	<0.48	**9.6**	**45**	na	**23**	na	<0.96	**65**	**3.9**	<1.9	<1.9	<0.96	**22**	**32**	<0.050	na	na	na	na
EB30-35	<0.95	**4.4**	**120**	<0.48	<0.48	**12**	**58**	na	**27**	na	<0.95	**76**	**6.4**	<1.9	<1.9	<0.95	**27**	**43**	<0.049	na	na	na	na
EB30-40	<0.98	**4.1**	**110**	<0.49	<0.49	**10**	**52**	na	**23**	na	<0.98	**67**	**5.4**	<2.0	<2.0	<0.98	**24**	**38**	<0.048	na	na	na	na
EB31-5	<1.0	**4.9**	**170**	<0.50	<0.50	**15**	**75**	na	**42**	na	<1.0	**100**	**9.5**	<2.0	<2.0	<1.0	**36**	**59**	**0.085**	na	na	na	na
EB31-10	<0.99	**4.0**	**110**	<0.50	<0.50	**9.9**	**41**	na	**26**	na	**1.1**	**58**	**5.7**	<2.0	<2.0	<0.99	**27**	**38**	**0.054**	na	na	na	na
EB31-20	<0.99	**4.6**	**110**	<0.50	<0.50	**11**	**50**	na	**22**	na	<0.99	**69**	**5.6**	<2.0	<2.0	<0.99	**25**	**42**	<0.050	na	na	na	na
EB31-55	<0.99	**4.7**	**100**	<0.50	<0.50	**10**	**53**	na	**27**	na	<0.99	**72**	**4.9**	<2.0	<2.0	<0.99	**25**	**37**	<0.048	na	na	na	na
EB32-35	<0.99	**3.8**	**110**	<0.50	<0.50	**8.7**	**48**	na	**23**	na	<0.99	**63**	**5.5**	<2.0	<2.0	<0.99	**24**	**34**	<0.050	na	na	na	na
EB32-40	<0.99	**3.4**	**87**	<0.50	<0.50	**8.3**	**43**	na	**17**	na	<0.99	**64**	**4.1**	<2.0	<2.0	<0.99	**22**	**32**	<0.049	na	na	na	na
EB33-40	<0.98	**3.3**	**120**	<0.49	<0.49	**7.9**	**40**	na	**18**	na	<0.98	**42**	**4.6**	<2.0	<2.0	<0.98	**22**	**33**	<0.050	na	na	na	na
EB34-35	<0.98	**5.1**	**130**	<0.49	<0.49	**12**	**53**	na	**25**	na	<0.98	**75**	**6.0**	<2.0	<2.0	<0.98	**26**	**43**	<0.048	na	na	na	na
EB34-40	<0.95	**4.4**	**120**	<0.48	<0.48	**11**	**63**	na	**24**	na	<0.95	**73**	**5.8**	<1.9	<1.9	<0.95	**26**	**41**	<0.048	na	na	na	na
LS-1	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LS-8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LS-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PL-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PL-8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PL-16	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PO1-12	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PO2-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PO2-8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PO2-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PT-0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PT-5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PTA-0.2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
RM-2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
RM-8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
RM-15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
RO-A	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
RO-B	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
RO-C	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

TABLE 1
SUMMARY OF PRELIMINARY ANALYTICAL RESULTS - SOIL

Hanson Aggregates Site

3000 Busch Road
Pleasanton, California

Sample ID	AOC Number	Sample Date	Sample Depth (ft)	Concentration (mg/kg): TPH-d (C_{10}-C_{28})	TPH-mo (C_{24}-C_{36})	TPH-g (C_5-C_{12})	Concentration (µg/kg): PCBs (Individual Analytes Listed on Analytical Report prepared by laboratory)	Organochlorine Pesticides (Individual Analytes Listed on Analytical Report prepared by laboratory)	Chlorinated Herbicides (Individual Analytes Listed on Analytical Report prepared by laboratory)	VOCs – BTEX (mg/kg): Benzene	Toluene	Ethylbenzene	Xylenes (total)	VOCs – Other: n-Butylbenzene	sec-Butylbenzene	Isopropylbenzene	Naphthalene	N-Propylbenzene	Other (in U.S. EPA 8260 list by GC/MS)	SVOCs – PAHs: Naphthalene	Acenaphthene	Acenaphthylene	Fluorene	Phenanthrene	Anthracene	Benzo (a) anthracene	Chrysene	Benzo (a) pyrene	Benzo (b) flouranthene	Benzo (k) fluoranthene	Benzo (g,h,i) perylene	Indeno (1,2,3-cd) pyrene	Flouranthene	Pyrene	Dibenz (a,h) anthracene	Other SVOCs: Phenol	Other SVOCs (in U.S. EPA 8270C List by GC/MS)	Concentration (mg/kg) – Metals (mg/kg): Silver	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Hexavalent Chromium	Copper	Magnesium	Molybdenum	Nickel	Lead	Antimony	Selenium	Thallium	Vanadium	Zinc	Mercury (mg/kg)	STLC Citrate (mg/L): Arsenic	Copper	Nickel	pH (pH units)
2016 Tier 1 ESLs				230	5100	100	0.25	NA	NA	0.044	2.9	1.4	2.3	NA	NA	NA	0.03	NA	NA	0.033	16	13	8.9	11	NA	0.16	3.8	0.016	0.16	1.6	2.5	0.16	60	85	0.016	0.076	NA	390	11 [a]	3000	42	39	23	120000 [b]	NA	3100	NA	390	820 [c]	80	31	390	0.78	390	23000	13	10	3.1	8.2	NA
RP-A		9/29/06	0.5	<0.99	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	<0.96	4.0	140	<0.48	<0.48	12	48	na	24	8900	<0.96	80	6.5	<1.9	<1.9	<0.96	24	43	0.058	na	na	na	na
RP-B		9/29/06	0.5	<0.99	<49	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	<1.0	3.9	130	<0.50	<0.50	10	48	na	27	8700	<1.0	74	6.3	<2.0	<2.0	<1.0	22	47	<0.049	na	na	na	na
RP-C		9/29/06	0.5	8.8	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	<0.95	7.6	160	0.65	<0.48	30	120	na	41	64000	1.0	410	21.0	<1.9	<1.9	<0.95	44	260	<0.050	na	na	na	na
RP-C-3.5		10/18/06	3.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	<0.99	4.2	160	<0.99	0.69	11	57	<0.80	63	na	<0.99	72	27	<2.0	<2.0	<0.99	32	180	0.2	na	na	na	na
RP-D		10/18/06	0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	<0.99	3.6	100	<0.50	<0.50	8.0	43	<0.80	25	na	<0.99	59	9.8	<2.0	<2.0	<0.99	21	76	0.077	na	na	na	na
RP-E		10/18/06	0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	<1.0	3.5	110	<0.52	<0.52	9.1	44	<0.80	23	na	<1.0	60	7.4	<2.1	<2.1	<1.0	22	52	0.052	na	na	na	na
RP-F		10/18/06	0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	<0.99	4.3	150	<0.50	<0.50	12	58	<0.80	35	na	<0.99	80	11	<2.0	<2.0	<0.99	29	70	0.073	na	na	na	na
RP-G		10/18/06	0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	<0.96	4.9	150	<0.48	<0.48	12	56	<0.80	32	na	<0.96	78	8.9	<1.9	<1.9	<0.96	29	56	0.057	na	na	na	na
RP-H		10/18/06	0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	<0.95	3.2	85	<0.48	<0.48	5.8	30	<0.80	26	na	<0.95	39	12	<1.9	<1.9	<0.95	16	130	0.074	na	na	na	na
RR-1	AOC 4	9/29/06	0.5	330	560	na	<50	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	<1.0	3.2	150	<0.50	<0.50	8.8	38	na	28	7800	2.0	55	8.0	<2.0	<2.0	<1.0	26	60	0.10	na	na	na	na
RR-2	AOC 4	9/29/06	0.5	7.5	55	na	<50	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	<0.98	4.6	130	<0.49	<0.49	7.9	31	na	24	8000	<0.98	49	6.0	<2.0	<2.0	<0.98	25	39	<0.050	na	na	na	na
SLAG-1a		10/11/06	0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	p	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	8.32
SR1-1	AOC 1	9/26/06	1	19	110	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
SR1-8	AOC 1	9/26/06	8	<1.0	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
SR1-15	AOC 1	9/26/06	15	<1.0	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
SR2-15	AOC 1	9/26/06	15	4.0	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
SR3-12	AOC 1	9/26/06	12	28	130	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
SR4-2	AOC 1	9/26/06	2	5.6	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
SR4-8	AOC 1	9/26/06	8	4.9	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
SR4-13	AOC 1	9/26/06	13	<1.0	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TRANS-A	AOC 5	9/27/06	0.5	2.6	<50	na	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TRANS-B	AOC 4	9/29/06	0.5	1.8	<50	na	<250	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TRANS-C	AOC 1	9/29/06	0.5	6.7	<50	na	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TRANS-D	AOC 3	9/29/06	0.5	3.9	<50	na	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TRANS-E	AOC 3	9/29/06	0.5	16	160	na	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
WH-0.5	AOC 3	10/11/06	0.5	na	na	<0.25	na	na	na	<0.0050	<0.0050	<0.0050	<0.010	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	<0.99	4.2	130	<0.50	<0.50	7.5	33	na	25	na	<0.99	51	5.8	<2.0	<2.0	<0.99	22	47	<0.049	na	na	na	na
WO-8	AOC 5	9/27/06	8	<0.99	<50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Abbreviations/Acronyms:

na - not analyzed
µg/kg- micrograms per kilogram
mg/kg - milligrams per kilogram
ND- not detected at or above the laboratory reporting limit
AP - Asphalt Plant
CB - Concrete Batch Plant
CPI - Corrugated Pipe Interior
COMP - Slag Stockpile Composite Sample
CR - Crusher
CS - Contaminated Soil Area
DR- Drums
EB - Environmental Boring
GC/MS - gas chromatography /mass spectrometry
LS - Lube Shed
p - pending analysis
PL - Plant Lube Shed
PO - Paving Oil
PT - Plastic Tanks (near CB)
RM- Rod Mill
RO - Runoff (Vulcan)
RP - Retention Pond
RR - Railroad
SLAG - Slag Stockpile
SR- Spray Rack
TPH-d - Total Petroleum Hydrocarbons, diesel range
TPH-d - Total Petroleum Hydrocarbons, motor oil range
TPH-g - Total Petroleum Hydrocarbons, gasoline range
TRANS - transformer
WO - Waste Oil
WH - Warehouse
BTEX- benzene, toluene, ethylbenzene, xylenes
PCBs - Polychlorinated Biphenyls
SVOCs - Semi-volatile Organic Compounds
VOCs - Volatile Organic Compounds

a = ESL based on upper estimate of background arsenic concentration as referenced by the SFBRWQCB per, "Establishing background arsenic in Soil of the Urbanized San Francisco Bay Region", Dated December 2011

b = ESL for Chromium III

c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

Table 1a
Area I - Analytical Results of Petroleum Hydrocarbons in Soil Samples
Hanson Radum Former Hot Mix Asphalt Plant Area
3000 Busch Road, Pleasanton, California
concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Depth (feet below grade)	Date Sample Collected	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Other Organic Compounds
AREA I	2016 TIER 1 ESLs		230	5100	100	0.044	2.9	1.4	2.3	NA
Soil Samples Collected by LFR										
B-1-4.5	4.5	11/14/2006	<10	<10	<0.5	NA	NA	NA	NA	NA
B-1-7.5	7.5	11/14/2006	320	<10	5.9	<0.002	<0.002	<0.002	<0.004	see Tables 2a/2b
B-1-10	10	11/14/2006	<10	<10	<0.5	NA	NA	NA	NA	NA
B-1-14.5	14.5	11/14/2006	hold	hold	hold	hold	hold	hold	hold	hold
B-1-18	18	11/14/2006	hold	hold	hold	hold	hold	hold	hold	hold
B-2-5	5	11/13/2006	<10	<10	<0.5	NA	NA	NA	NA	NA
B-2-10	10	11/13/2006	<10	<10	<0.5	NA	NA	NA	NA	NA
B-2-14	14	11/13/2006	<10	<10	<0.5	NA	NA	NA	NA	NA
B-2-19.5	19.5	11/13/2006	hold	hold	hold	hold	hold	hold	hold	hold
B-3-5	5	11/14/2006	hold	hold	hold	hold	hold	hold	hold	hold
B-3-7	7	11/14/2006	27	<10	0.5	NA	NA	NA	NA	NA
B-3-10	10	11/14/2006	7,300	330	38	NA	NA	NA	NA	see Table 2a
B-3-14	14	11/14/2006	2,100	<10	NA	NA	NA	NA	NA	NA
B-3-18	18	11/14/2006	<10	<10	NA	NA	NA	NA	NA	NA
~~B-4-5~~	~~5~~	~~11/14/2006~~	~~hold~~	~~hold~~	~~hold~~	~~hold~~	~~hold~~	~~hold~~	~~hold~~	~~hold~~
B-4-10.5	10.5	11/14/2006	6,400	460	33	NA	NA	NA	NA	see Table 2a
B-4-15	15	11/14/2006	7,100	<10	NA	NA	NA	NA	NA	NA
B-4-18	18	11/14/2006	hold	hold	hold	hold	hold	hold	hold	hold
Soil Samples Collected by ENV										
CS1-2	2	9/27/2006	91	260	NA	NA	NA	NA	NA	NA
CS1-8	8	9/27/2006	52	170	NA	NA	NA	NA	NA	NA
CS1-12	12	9/27/2006	59	190	NA	NA	NA	NA	NA	NA
CS1-13	13	9/27/2006	59	190	NA	NA	NA	NA	NA	NA

AOC 1

Table 1a
Area I - Analytical Results of Petroleum Hydrocarbons in Soil Samples
Hanson Radum Former Hot Mix Asphalt Plant Area
3000 Busch Road, Pleasanton, California
concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Depth (feet below grade)	Date Sample Collected	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Other Organic Compounds
AP4-9-10	9-10	9/26/2006	**5,600**	<50	NA	NA	NA	NA	NA	see Tables 2a/2b
AP-5 - 2	2	9/27/2006	<0.99	<49	NA	NA	NA	NA	NA	NA
AP-5 - 8	8	9/27/2006	**2.6**	<50	NA	NA	NA	NA	NA	NA
AP-5-15	15	9/27/2006	<1.0	<50	NA	NA	NA	NA	NA	NA
EB12-20	20	10/9/2006	<1.0	<50	<0.25	<0.005	<0.005	<0.005	<0.010	NA
EB13-10	10	10/9/2006	**400**	**240**	**530**	<2.0	<2.0	<2.0	<4.0	NA
EB13-15	15	10/9/2006	<0.99	<50	**0.33**	<0.005	<0.005	<0.005	<0.0099	NA
EB13 -20	20	10/9/2006	**16**	<50	**0.31**	<0.005	<0.005	<0.005	<0.0099	NA
EB17-6	6	10/20/2006	<0.96	<48	<0.22	<0.0044	<0.0044	<0.0044	<0.0098	NA
EB17-15	15	10/20/2006	<0.97	<48	<0.24	<0.0047	<0.0047	<0.0047	<0.0095	NA
EB-18-15	15	10/20/2006	<1.0	<50	<0.22	<0.0045	<0.0045	<0.0045	<0.009	NA
EB-18-20	20	10/20/2006	<0.95	<48	<0.22	<0.0045	<0.0045	<0.0045	<0.009	NA
Trans-C	0.5	9/29/2006	**6.7**	<50	NA	NA	NA	NA	NA	NA

Notes:

Samples collected by LFR were analyzed by SunStar Analytical, located in Tustin, CA.

Samples collected by ENV were analyzed by Severn Trent Laboratories, located in Pleasanton, CA.

NA = parameter not analyzed

ND = parameter not present above laboratory reporting limits

TPHd = total petroleum hydrocarbons as diesel

TPHmo = total petroleum hydrocarbons as motor oil

TPHg = total petroleum hydrocarbons as gasoline

Bold Text indicates parameter detected above laboratory reporting limit.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL

Table 1b
Area II - Analytical Results of Petroleum Hydrocarbons in Soil Samples
Hanson Radum Former Hot Mix Asphalt Plant Area
3000 Busch Road, Pleasanton, California
concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Depth (feet below grade)	Date Sample Collected	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Other Organic Compounds
AREA II										
Soil Samples Collected by LFR										
~~B-5-5~~	~~5~~	~~11/15/2006~~	~~<10~~	~~<10~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
~~B-5-10~~	~~10~~	~~11/15/2006~~	~~<10~~	~~160~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~see Table 2a~~
~~B-5-15~~	~~15~~	~~11/15/2006~~	~~<10~~	~~7,800~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~see Table 2a~~
~~B-6-5~~	~~5~~	~~11/15/2006~~	~~<10~~	~~19,000~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~see Table 2a~~
~~B-6-10~~	~~10~~	~~11/15/2006~~	~~<10~~	~~<10~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
~~B-6-15~~	~~15~~	~~11/15/2006~~	~~<10~~	~~<10~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
~~B-7-5~~	~~5~~	~~11/15/2006~~	~~<10~~	~~<10~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
~~B-7-11~~	~~11~~	~~11/15/2006~~	~~<10~~	~~<10~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
B-7-15	15	11/15/2006	hold	hold	hold	hold	hold	hold	hold	hold
Soil Samples Collected by ENV										
EB-11-20	5	10/9/2006	<1.0	<50	<0.24	<0.0049	<0.0049	<0.0049	<0.0097	NA
EB-16@2'	2	10/20/2006	**20**	**60**	<0.23	<0.0045	<0.0045	<0.0045	<0.009	NA
EB-16@5'	5	10/20/2006	**5.4**	<50	<0.22	<0.0044	<0.0044	<0.0044	<0.0088	NA
EB-16@16.5	16.5	10/20/2006	**4.6**	<50	<0.21	<0.0043	<0.0043	<0.0043	<0.0085	NA
CS2-8	8	9/27/2006	**1,800**	**3,600**	NA	NA	NA	NA	NA	NA
CS2-15	15	9/27/2006	**4,100**	**9,300**	NA	NA	NA	NA	NA	see Table 2a
CS2-18	18	9/27/2006	**3,000**	**6,000**	NA	NA	NA	NA	NA	NA

AOC 1

Notes:

Samples collected by LFR were analyzed by SunStar Analytical, located in Tustin, CA.

Samples collected by ENV were analyzed by Severn Trent Laboratories, located in Pleasanton, CA.

NA = parameter not analyzed

ND = parameter not present above laboratory reporting limits

TPHd = total petroleum hydrocarbons as diesel

TPHg = total petroleum hydrocarbons as gasoline

TPHmo = total petroleum hydrocarbons as motor oil

Bold Text indicates parameter detected above laboratory reporting limit.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL

Table 1c
Area III - Analytical Results of Petroleum Hydrocarbons in Soil Samples
Hanson Radum Former Hot Mix Asphalt Plant Area
3000 Busch Road, Pleasanton, California
concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Depth (feet below grade)	Date Sample Collected	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Other Organic Compounds
AREA III										
Soil Samples Collected by LFR										
B-8-13	13	11/14/2006	<10	<10	<0.5	NA	NA	NA	NA	see Table 2b
B-8-18	18	11/14/2006	hold	hold	hold	hold	hold	hold	hold	hold
B-9-5	5	11/15/2006	<10	<10	<0.5	NA	NA	NA	NA	NA
B-9-10	10	11/15/2006	<10	<10	<0.5	NA	NA	NA	NA	NA
B-9-15	15	11/15/2006	hold	hold	hold	hold	hold	hold	hold	hold
~~B-10-5~~	~~5~~	~~11/15/2006~~	~~<10~~	~~<10~~	~~<0.5~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
B-10-10	10	11/15/2006	<10	<10	<0.5	NA	NA	NA	NA	NA
B-10-15	15	11/15/2006	hold	hold	hold	hold	hold	hold	hold	hold
Soil Samples Collected by ENV										
PO1-2	2	9/27/2006	**170**	**280**	NA	NA	NA	NA	NA	NA
PO1-8	8	9/27/2006	**5,900**	**16,000**	NA	NA	NA	NA	NA	NA
PO1-12	12	9/27/2006	**4.7**	<49	NA	NA	NA	NA	NA	NA
PO2-2	2	9/27/2006	**43**	**280**	NA	NA	NA	NA	NA	NA
PO2-8	8	9/27/2006	**2.2**	<50	NA	NA	NA	NA	NA	NA
PO2-15	15	9/27/2006	<0.99	<50	NA	NA	NA	NA	NA	NA
AP2-2	2	9/26/2006	**3.1**	<50	NA	NA	NA	NA	NA	NA
AP2-8	8	9/26/2006	**1.5**	<50	NA	NA	NA	NA	NA	NA
AP2-13	13	9/26/2006	**1.6**	<50	NA	NA	NA	NA	NA	NA
AP3-2	2	9/26/2006	**3.7**	<50	NA	NA	NA	NA	NA	NA
AP3-8	8	9/26/2006	**1.1**	<50	NA	NA	NA	NA	NA	NA
AP3-15	15	9/26/2006	**1.6**	<50	NA	NA	NA	NA	NA	NA
EB9-5	5	10/9/2006	**3.5**	<49	NA	NA	NA	NA	NA	NA
EB9-10	10	10/9/2006	**1.1**	<50	NA	NA	NA	NA	NA	NA
EB9-20	20	10/9/2006	**1.9**	<50	NA	NA	NA	NA	NA	NA
EB10-5	5	10/9/2006	**1.7**	<50	NA	NA	NA	NA	NA	NA
EB10-10	10	10/9/2006	<1.0	<50	NA	NA	NA	NA	NA	NA
EB10-25	25	10/9/2006	**1.3**	<50	NA	NA	NA	NA	NA	NA

Table 1c
Area III - Analytical Results of Petroleum Hydrocarbons in Soil Samples
Hanson Radum Former Hot Mix Asphalt Plant Area
3000 Busch Road, Pleasanton, California
concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Depth (feet below grade)	Date Sample Collected	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Other Organic Compounds

Notes:

Samples collected by LFR were analyzed by SunStar Analytical, located in Tustin, CA.

Samples collected by ENV were analyzed by Severn Trent Laboratories, located in Pleasanton, CA.

NA = parameter not analyzed

ND = parameter not present above laboratory reporting limits

TPHd = total petroleum hydrocarbons as diesel

TPHmo = total petroleum hydrocarbons as motor oil

TPHg = total petroleum hydrocarbons as gasoline

Bold Text indicates parameter detected above laboratory reporting limit.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL

Table 1d
Area IV - Analytical Results of Petroleum Hydrocarbons in Soil Samples
Hanson Radum Former Hot Mix Asphalt Plant Area
3000 Busch Road, Pleasanton, California
concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Depth (feet below grade)	Date Sample Collected	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Other Organic Compounds
AREA IV										
Soil Samples Collected by LFR										
B-11-5	5	11/15/2006	<10	<10	NA	NA	NA	NA	NA	see Table 2a
B-11-10	10	11/15/2006	<10	<10	NA	NA	NA	NA	NA	see Table 2a
B-11-15	15	11/15/2006	<10	<10	NA	NA	NA	NA	NA	NA
B-11-22.5	22.5	11/15/2006	hold	hold	hold	hold	hold	hold	hold	hold
B-12-4.5	4.5	11/13/2006	<10	<10	NA	NA	NA	NA	NA	NA
B-12-9.5	9.5	11/13/2006	<10	<10	NA	NA	NA	NA	NA	NA
B-12-14.5	14.5	11/13/2006	hold	hold	hold	hold	hold	hold	hold	hold
B-13-5	5	11/15/2006	<10	<10	NA	NA	NA	NA	NA	NA
B-13-7.5	7.5	11/15/2006	<10	<10	NA	NA	NA	NA	NA	NA
B-13-10	10	11/15/2006	hold	hold	hold	hold	hold	hold	hold	hold
~~B-14-5~~	~~5~~	~~11/15/2006~~	~~<10~~	~~<10~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~
B-14-10	10	11/15/2006	<10	<10	NA	NA	NA	NA	NA	NA
B-14-15	15	11/15/2006	hold	hold	hold	hold	hold	hold	hold	hold
B-15-4	4	11/15/2006	<10 J	220 J	NA	NA	NA	NA	NA	NA
B-15-7	7	11/15/2006	<10	<10	NA	NA	NA	NA	NA	NA
B-15-10	10	11/15/2006	hold	hold	hold	hold	hold	hold	hold	hold
~~B-16-3~~	~~3~~	~~11/13/2006~~	~~890~~	~~180~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~see Table 2a~~
B-16-25.5	25.5	11/13/2006	hold	hold	hold	hold	hold	hold	hold	hold
B-16-30.5	30.5	11/13/2006	hold	hold	hold	hold	hold	hold	hold	hold
B-16-31.5	31.5	11/13/2006	hold	hold	hold	hold	hold	hold	hold	hold
B-20-4	4	11/16/2006	<10	<10	NA	NA	NA	NA	NA	NA
B-20-7	7	11/16/2006	<10	<10	NA	NA	NA	NA	NA	NA
B-20-10	10	11/16/2006	hold	hold	hold	hold	hold	hold	hold	hold
B-20-15	15	11/16/2006	hold	hold	hold	hold	hold	hold	hold	hold
~~B-24-4~~	~~4~~	~~11/16/2006~~	~~<10 J~~	~~1,300 J~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~see Table 2a~~
~~B-24-7~~	~~7~~	~~11/16/2006~~	~~<10~~	~~650~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~see Table 2a~~
B-24-10	10	11/16/2006	<10 J	3,500 J	NA	NA	NA	NA	NA	see Table 2a
B-24-15	15	11/16/2006	hold	hold	hold	hold	hold	hold	hold	hold
B-24-20	20	11/16/2006	hold	hold	hold	hold	hold	hold	hold	hold
Soil Samples Collected by ENV										
SR1-1	1	9/26/2006	19	110	NA	NA	NA	NA	NA	NA
SR1-8	8	9/26/2006	<1.0	<50	NA	NA	NA	NA	NA	NA
SR1-15	15	9/26/2006	<1.0	<50	NA	NA	NA	NA	NA	NA
SR2-5	5	9/26/2006	130	450	NA	NA	NA	NA	NA	NA
SR2-8	8	9/26/2006	55	220	NA	NA	NA	NA	NA	NA
SR2-15	15	9/26/2006	4.0	<50	NA	NA	NA	NA	NA	NA
SR3-7	7	9/26/2006	1,000	1,700	NA	NA	NA	NA	NA	see Table 2a
SR3-12	12	9/26/2006	28	130	NA	NA	NA	NA	NA	NA
SR4-2	2	9/26/2006	5.6	<50	NA	NA	NA	NA	NA	NA
SR4-8	8	9/26/2006	4.9	<50	NA	NA	NA	NA	NA	NA
SR4-13	13	9/26/2006	<50	<50	NA	NA	NA	NA	NA	NA

AOC 1

Table 1d
Area IV - Analytical Results of Petroleum Hydrocarbons in Soil Samples
Hanson Radum Former Hot Mix Asphalt Plant Area
3000 Busch Road, Pleasanton, California
concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Depth (feet below grade)	Date Sample Collected	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Other Organic Compounds
AP1-1	1	9/26/2006	**4.4**	ND	NA	NA	NA	NA	NA	NA
AP1-8	8	9/26/2006	<0.99	<50	NA	NA	NA	NA	NA	NA
AP1a-11	11	9/26/2006	**9.0**	<50	NA	NA	NA	NA	NA	NA
RR3-2.5	2.5	10/9/2006	NA	NA	NA	NA	NA	NA	NA	NA
EB-14@2'	2	10/19/2006	**140**	<490	<0.25	<0.005	<0.005	<0.005	<0.010	ND
EB-14@6'	6	10/19/2006	<0.99	<50	<0.25	<0.005	<0.005	<0.005	<0.010	ND
EB-14@15'	15	10/19/2006	<0.99	<50	<0.25	<0.005	<0.005	<0.005	<0.010	ND
EB-14@33.5'	33.5	10/19/2006	**7,800**	**8,700**	**32**	<0.025	<0.025	<0.025	<0.0099	see Table 2a/2b
EB-14@43.5'	43.5	10/19/2006	**2.2**	<50	<0.25	<0.0049	<0.0049	<0.0049	<0.0098	ND
EB-30-5	5	10/26/2006	**200**	**1,300**	<0.25	<5.0	<5.0	<5.0	<0.010	ND
EB-30-10	10	10/26/2006	**1.6**	<49	<0.25	<0.0049	<0.0049	<0.0049	<0.0098	ND
EB-30-15	15	10/26/2006	**7.6**	**50**	<0.25	<0.0048	<0.0048	<0.0048	<0.0097	ND
EB-30-35	35	10/26/2006	<1.0	<50	<0.25	<0.005	<0.005	<0.005	<0.010	ND
EB-30-40	40	10/26/2006	<0.99	<49	<0.24	<0.0049	<0.0049	<0.0049	<0.0098	ND
EB-33-40	40	10/26/2006	**13.0**	<50	**0.29**	<0.0049	<0.0049	<0.0049	<0.0098	ND

Notes:
Samples collected by LFR were analyzed by SunStar Analytical, located in Tustin, CA.
Samples collected by ENV were analyzed by Severn Trent Laboratories, located in Pleasanton, CA.
NA = parameter not analyzed
ND = parameter not present above laboratory reporting limits
TPHd = total petroleum hydrocarbons as diesel
TPHmo = total petroleum hydrocarbons as motor oil
TPHg = total petroleum hydrocarbons as gasoline
J = estimated concentration because the surrogate percent recovery is out of laboratory quality control limits
Bold Text indicates parameter detected above laboratory reporting limit.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL
Green Highlight indicates reporting limit exceeds Tier 1 ESL

Table 1e
Area V - Analytical Results of Petroleum Hydrocarbons in Soil Samples
Hanson Radum Former Hot Mix Asphalt Plant Area
3000 Busch Road, Pleasanton, California
concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Depth (feet below grade)	Date Sample Collected	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	Other Organic Compounds
AREA V										
Soil Samples Collected by LFR										
AOC 1										
B-17-5.5	5.5	11/13/2006	<10	<10	NA	NA	NA	NA	NA	NA
B-17-9	9	11/13/2006	<10	<10	NA	NA	NA	NA	NA	NA
B-18-6	6	11/16/2006	<10	<10	NA	NA	NA	NA	NA	NA
B-18-10	10	11/16/2006	hold	hold	hold	hold	hold	hold	hold	hold
B-19-6	6	11/16/2006	hold	hold	hold	hold	hold	hold	hold	hold
B-19-10	10	11/16/2006	hold	hold	hold	hold	hold	hold	hold	hold
Soil Samples Collected by ENV										
EB-15	2	10/19/2006	<0.97	<49	<0.24	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098
EB-15	6	10/19/2006	<0.95	<48	<0.24	<0.0048	<0.0048	<0.0048	<0.0048	<0.0096
EB-15	10	10/19/2006	<0.99	<49	<0.25	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099
EB-15	15	10/19/2006	<0.95	<47	<0.25	<0.0050	<0.0050	<0.0050	<0.0050	<0.0099
EB-20	2	10/20/2006	<0.98	<49	<0.25	<0.0050	<0.0050	<0.0050	<0.0050	<0.010
EB-20	6	10/20/2006	<0.96	<48	<0.25	<0.0046	<0.0046	<0.0046	<0.0046	<0.0092
EB-34	35	10/26/2006	<0.98	<49	<0.24	<0.0047	<0.0047	<0.0047	<0.0047	<0.0095
EB-34	40	10/26/2006	<0.98	<49	<0.23	<0.0047	<0.0047	<0.0047	<0.0047	<0.0093

Notes:

Samples collected by LFR were analyzed by SunStar Laboratories, Inc., located in Tustin, CA.

Samples collected by ENV were analyzed by Severn Trent Laboratories, located in Pleasanton, CA.

NA = parameter not analyzed

ND = parameter not present above laboratory reporting limits

TPHd = total petroleum hydrocarbons as diesel

TPHmo = total petroleum hydrocarbons as motor oil

TPHg = total petroleum hydrocarbons as gasoline

Bold Text indicates parameter detected above laboratory reporting limit.

Table 2a
Analytical Results of Organic Compounds in Soil Samples
Polycyclic Aromatic Hydrocarbons
Hanson Radum Former Hot Mix Asphalt Plant Area
3000 Busch Road, Pleasanton, California
concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Depth (feet below grade)	Date Sample Collected	Ace-naphthene	Anthra-cene	Benzo(a) anthra-cene	Benzo (g,h,i) perylene	Chrysene	Fluor-anthene	Fluorene	Naphtha-lene	Phenan-threne	Pyrene
Soil Samples Collected by LFR			16	13	0.16	2.5	3.8	60	8.9	0.033	11	85
AREA I	2016 TIER 1 ESLs											
B-1-7.5	7.5	11/14/2006	<0.3	<0.3	<0.3	<1	<0.3	<0.3	<0.3	<0.3	0.44	<0.3
B-3-10	10	11/14/2006	<0.3	<0.3	<0.3	<1	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
B-4-10.5	10.5	11/14/2006	<0.3	<0.3	<0.3	<1	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
AREA II												
~~B-5-10~~	~~10~~	~~11/15/2006~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<1~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<0.3~~
~~B-5-15~~	~~15~~	~~11/15/2006~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<1~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<0.3~~
~~B-6-5~~	~~5~~	~~11/15/2006~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<1~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<0.3~~
AREA IV												
B-11-5	5	11/15/2006	<0.3	<0.3	<0.3	<1	<0.3	0.46	<0.3	<0.3	0.80	<0.3
B-11-10	10	11/15/2006	<0.3	<0.3	<0.3	<1	<0.3	<0.3	<0.3	<0.3	0.36	<0.3
B-15-4	4	11/16/2006	<0.3	<0.3	<0.3	<1	<0.3	<0.3	<0.3	<0.3	0.36	<0.3
~~B-16-3~~	~~3~~	~~11/13/2006~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<1~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<0.3~~
~~B-24-4~~	~~4~~	~~11/16/2006~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<1~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<0.3~~	~~<0.3~~
~~B-24-7~~	~~7~~	~~11/16/2006~~	~~<3.0~~	~~<3.0~~	~~<3.0~~	~~<10~~	~~<3.0~~	~~<3.0~~	~~<3.0~~	~~<3.0~~	~~<3.0~~	~~<3.0~~
B-24-10	10	11/16/2006	<3.0	<3.0	<3.0	<10	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Soil Samples Collected by ENV												
AP4-9-10	9-10	9/26/2006	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	3.2	2.4	5	<0.25
CS2-15	15	9/27/2006	<0.005	<0.005	<0.005	<0.005	<0.005	0.044	0.017	<0.005	<0.005	<0.005
SR3-7	7	9/26/2006	<0.25	<0.25	0.36	<0.25	0.63	<0.25	0.98	1.3	1.4	<0.25
EB-14@33.5'	33.5	10/19/2006	3.1	3.3	2.1	1.0	3.5	<0.25	4.5	<0.25	12	4.7

AOC 1

Table 2a
Analytical Results of Organic Compounds in Soil Samples
Polycyclic Aromatic Hydrocarbons
Hanson Radum Former Hot Mix Asphalt Plant Area
3000 Busch Road, Pleasanton, California
concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Depth (feet below grade)	Date Sample Collected	Ace-naphthene	Anthra-cene	Benzo(a) anthra-cene	Benzo (g,h,i) perylene	Chrysene	Fluor-anthene	Fluorene	Naphtha-lene	Phenan-threne	Pyrene

Notes:

Samples collected by LFR were analyzed by SunStar Analytical, located in Tustin, CA.

Samples collected by ENV were analyzed by Severn Trent Laboratories, located in Pleasanton, CA.

NA = parameter not analyzed

Bold Text indicates parameter detected above laboratory reporting limit.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL
Green Highlight indicates reporting limit exceeds Tier 1 ESL

Table 2b
Analytical Results of Organic Compounds in Soil Samples
Volatile Organic Compounds
Hanson Radum Former Hot Mix Asphalt Plant Area
3000 Busch Road, Pleasanton, California
concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Depth (feet below grade)	Date Sample Collected	n-Butyl-benzene	sec-Butyl-benzene	tert-Butyl-benzene	n-Propyl-benzene	1,2,3-Trichloro-benzene	1,2,4 Trichloro-benzene	1,3,5 Trimethyl-benzene	1,2,4 Trimethyl-benzene
Soil Samples Collected by LFR								1.5		
AREA I										
B-1-7.5	7.5	11/14/2006	**0.013**	**0.012**	**0.0074**	**0.0077**	**0.011**	**0.0072**	**0.018**	**0.023**
AREA III										
B-8-13	13	11/14/2006	**0.0033**	<0.002	<0.002	<0.002	**0.0021**	**0.0021**	<0.002	<0.002
Soil Samples Collected by ENV										
AP4-9-10	9-10	9/26/2006	**1.5**	**0.99**	NA	NA	NA	NA	NA	NA
EB-14@33.5'	33.5	10/19/2006	**0.12**	**0.041**	ND	**0.063**	ND	ND	ND	ND

AOC 1

Notes:
Samples collected by LFR were analyzed by SunStar Analytical, located in Tustin, CA.
Samples collected by ENV were analyzed by Severn Trent Laboratories, located in Pleasanton, CA.
NA = parameter not analyzed
ND = parameter not present above laboratory reporting limits
NE = ESL value not established
Bold Text indicates parameter detected above laboratory reporting limit.

Table 3
Analytical Results for Metals in Soil Samples
Hanson Radum Former Hot Mix Asphalt Plant
3000 Busch Road, Pleasanton, California
concentrations in milligrams per kilogram (mg/kg)

Sample ID	Sample Depth (feet below grade)	Date Sample Collected	Arsenic	Barium	Chromium	Cobalt	Copper	Nickel	Vanadium
Soil Samples Collected by LFR									
Area III	2016 TIER 1 ESLs		11	3000	120,000	23	3100	820	390
B-9-5	5	11/15/2006	<5	43	15	4.5	14	29	8.8
B-9-10	10	11/15/2006	<5	49	23	5.3	14	39	12
~~B-10-5~~	~~5~~	~~11/15/2006~~	~~<5~~	~~50~~	~~12~~	~~3.8~~	~~28~~	~~18~~	~~7.2~~
B-10-10	10	11/15/2006	<5	32	13	4.3	22	26	7.2
Area IV									
~~B-16-3~~	~~3~~	~~11/13/2006~~	~~<5~~	~~77~~	~~27~~	~~6.3~~	~~21~~	~~44~~	~~17~~
Area V									
B-17-5.5	5.5	11/13/2006	<5	45	16	4.1	9.6	29	11
B-17-9	9	11/13/2006	<5	74	28	6.4	21	54	16
B-18-6	6	11/16/2006	<5	48	14	3.9	37	33	7.4
B-18-10	10	11/16/2006	<5	70	20	6.3	22	36	12
B-19-6	6	11/16/2006	<5	58	28	6.0	19	45	13
B-19-10	10	11/16/2006	<5	110	11	3.4	19	20	7.5
Soil Samples Collected by ENV									
EB20-2	2	10/20/2006	2.8	90	30	7.3	40	46	22
EB20-6	6	10/20/2006	60	940	220	89	330	310	220
EB34-35	35	10/26/2006	5.1	130	53	12	25	6.0	26
EB34-40	40	10/26/2006	4.4	120	11	63	24	73	26

AOC 1

Notes:
Samples collected by LFR were analyzed by SunStar Analytical, located in Tustin, CA.
Samples collected by ENV were analyzed by Severn Trent Laboratories, located in Pleasanton, CA.
Bold Text indicates parameter detected above laboratory reporting limit.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL
Green Highlight indicates reporting limit exceeds Tier 1 ESL

Table 4
Analytical Results for Groundwater Samples
Hanson Radum Former Hot Mix Asphalt Plant
3000 Busch Road, Pleasanton, California
concentrations in micrograms per liter (µg/l)

Sample ID	Approximate Sample Depth (feet below grade)	Date Sample Collected	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other Organic Compounds
Grab Groundwater Samples Collected by LFR										
GGW-21	60	11/15/2006	<50	<50	NA	NA	NA	NA	NA	NA
GGW-22	50	11/15/2006	**1,700**	<50	NA	<0.5	<0.5	**0.59**	**1.2**	*
GGW-23	55	11/16/2006	<50	<50	NA	NA	NA	NA	NA	NA
Grab Groundwater Samples Collected by ENV										
EB-15W@55'	55	10/19/2006	<50	<500	<50	<0.5	<0.5	<0.5	<1	NA
EB-16W@55'	55	10/20/2006	<50	<500	<50	<0.5	<0.5	<0.5	<1	NA
EB-22W@60'	60	10/20/2006	<50	<500	<50	<0.5	<0.5	<0.5	<1	ND
EB-29W@52'	52	10/25/2006	**150**	**850**	<50	<0.5	<0.5	<0.5	<1	ND
	2016 TIER 1 ESLs		100	N/A	100	1	40	13	20	N/A

Notes:

Samples collected by LFR were analyzed by SunStar Analytical, located in Tustin, CA.

Samples collected by ENV were analyzed by Severn Trent Laboratories, located in Pleasanton, CA.

NA = parameter not analyzed

ND = parameter not present above laboratory reporting limits

TPHd = total petroleum hydrocarbons as diesel

TPHmo = total petroleum hydrocarbons as motor oil

TPHg = total petroleum hydrocarbons as gasoline

Bold Text indicates parameter detected above laboratory reporting limit.

* Isopropylbenzene (2.5 µg/l)

Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 1
SUMMARY OF ANALYTICAL RESULTS - SOIL

Hanson Aggregates Site

3000 Busch Road
Pleasanton, California

				Concentration (mg/kg)			Concentration (mg/kg)																					
							VOCs				Metals (mg/kg)																	
							BTEX (mg/kg)																					
				TPH-d (C_{10}-C_{28})	TPH-mo (C_{24}-C_{36})	TPH-g (C_5-C_{12})	Benzene	Toluene	Ethylbenzene	Xylenes (total)	Silver	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Molybdenum	Nickel	Lead	Antimony	Selenium	Thallium	Vanadium	Zinc	Mercury
			2016 Tier 1 ESLs	230	5100	100	0.044	2.9	1.4	2.3	390	11 [a]	3000	42	39	23	120000 [b]	3100	390	820 [c]	80	31	390	0.78	390	23000	13
Sample ID	**AOC Number**	Sample Date	Sample Depth (ft)																									
EB35-2'	**No AOC**	1/10/07	2	**400**	**3400**	<0.24	<0.0049	<0.0049	<0.0049	<0.0097	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EB35-10'	**No AOC**	1/10/07	10	**2.6**	<50	<0.25	<0.0049	<0.0049	<0.0049	<0.0099	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EB35-20'	**No AOC**	1/10/07	20	<0.99	<49	<0.24	<0.0048	<0.0048	<0.0048	<0.0096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EB35-30'	**No AOC**	1/10/07	30	<0.96	<48	<0.24	<0.0048	<0.0048	<0.0048	<0.0095	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EB35-40'	**No AOC**	1/10/07	40	**9.0**	<49	<0.24	<0.0048	<0.0048	<0.0048	<0.0096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(2)-2	**No AOC**	2/1/07	2	<1.0	<50	<0.24	<0.0048	<0.0048	<0.0048	<0.0097	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(2)-10	**No AOC**	2/1/07	10	<1.0	<50	<0.23	<0.0046	<0.0046	<0.0046	<0.0092	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(2)-20	**No AOC**	2/1/07	20	<1.0	<50	<0.25	<0.0050	<0.0050	<0.0050	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(2)-30	**No AOC**	2/1/07	30	<1.0	<50	<0.23	<0.0046	<0.0046	<0.0046	<0.0093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(2)-40	**No AOC**	2/1/07	40	<1.0	<50	<0.24	<0.0048	<0.0048	<0.0048	<0.0096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(5)-2	**No AOC**	2/2/07	2	<1.0	<50	<0.25	<0.0049	<0.0049	<0.0049	<0.0098	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(5)-10	**No AOC**	2/2/07	10	<0.99	<49	<0.24	<0.0048	<0.0048	<0.0048	<0.0096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(5)-20	**No AOC**	2/2/07	20	<0.99	<50	<0.23	<0.0046	<0.0046	<0.0046	<0.0091	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(5)-30	**No AOC**	2/2/07	30	<1.0	<50	<0.24	<0.0048	<0.0048	<0.0048	<0.0096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(5)-40	**No AOC**	2/2/07	40	<1.0	<50	<0.25	<0.0049	<0.0049	<0.0049	<0.0098	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(14)-2	**No AOC**	2/1/07	2	**1.1**	<50	<0.23	<0.0047	<0.0047	<0.0047	<0.0094	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(14)-10	**No AOC**	2/1/07	10	**3.3**	<50	<0.23	<0.0046	<0.0046	<0.0046	<0.0091	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(14)-20	**No AOC**	2/1/07	20	<1.0	<50	<0.24	<0.0048	<0.0048	<0.0048	<0.0096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(14)-30	**No AOC**	2/1/07	30	**1.1**	<50	<0.24	<0.0048	<0.0048	<0.0048	<0.0096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(14)-40	**No AOC**	2/1/07	40	**1.1**	<50	<0.24	<0.0048	<0.0048	<0.0048	<0.0096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(22)-2	**AOC 7**	1/31/07	2	**2.5**	<50	<0.25	<0.0049	<0.0049	<0.0049	<0.0099	<0.98	**4.7**	**200**	<0.49	<0.49	**14**	**54**	**31**	<0.98	**100**	**6.4**	<2.0	<2.0	<0.98	**28**	**43**	**0.060**
SS(22)-10	**AOC 7**	1/31/07	10	<0.99	<50	<0.25	<0.0050	<0.0050	<0.0050	<0.0099	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(22)-20	**AOC 7**	1/31/07	20	**11**	**65**	<0.23	<0.0046	<0.0046	<0.0046	<0.0092	<0.99	**4.3**	**140**	<0.50	<0.50	**12**	**48**	**25**	<0.99	**76**	**5.7**	<2.0	<2.0	<0.99	**27**	**44**	**0.10**
SS(22)-30	**AOC 7**	1/31/07	30	<0.99	<50	<0.24	<0.0048	<0.0048	<0.0048	<0.0096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(22)-40	**AOC 7**	1/31/07	40	<1.0	<50	<0.25	<0.0049	<0.0049	<0.0049	<0.0099	<1.0	**4.6**	**130**	<0.51	<0.51	**13**	**54**	**24**	<1.0	**98**	**5.5**	<2.0	<2.0	<1.0	**25**	**38**	<0.049
SS(31)-2	**AOC 7**	1/31/07	2	**210**	**1500**	<0.24	<0.0047	<0.0047	<0.0047	<0.0095	<0.99	**4.0**	**150**	<0.50	<0.50	**11**	**48**	**25**	<0.99	**72**	**7.9**	<2.0	<2.0	<0.99	**33**	**40**	<0.049
SS(31)-10	**AOC 7**	1/31/07	10	**14**	**110**	<0.25	<0.0049	<0.0049	<0.0049	<0.0099	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(31)-20	**AOC 7**	1/31/07	20	<1.0	<50	<0.25	<0.0050	<0.0050	<0.0050	<0.0099	<0.96	**4.9**	**130**	<0.48	<0.48	**11**	**55**	**25**	<0.96	**75**	**5.9**	<1.9	<1.9	<0.96	**26**	**42**	<0.049
SS(31)-30	**AOC 7**	1/31/07	30	<0.99	<50	<0.25	<0.0050	<0.0050	<0.0050	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(31)-40	**AOC 7**	1/31/07	40	**200**	**1500**	<0.24	<0.0049	<0.0049	<0.0049	<0.0098	<0.96	**3.6**	**160**	<0.48	<0.48	**11**	**47**	**23**	<0.96	**74**	**7.5**	<1.9	<1.9	<0.96	**30**	**40**	<0.052
SS(33)-2	**No AOC**	2/1/07	2	<0.99	<50	<0.22	<0.0045	<0.0045	<0.0045	<0.0089	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(33)-10	**No AOC**	2/1/07	10	**1.9**	<50	<0.20	<0.0040	<0.0040	<0.0040	<0.0081	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(33)-20	**No AOC**	2/1/07	20	<1.0	<50	<0.25	<0.0050	<0.0050	<0.0050	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(33)-30	**No AOC**	2/1/07	30	**3.3**	<50	<0.25	<0.0050	<0.0050	<0.0050	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(33)-40	**No AOC**	2/1/07	40	**3.0**	<50	<0.22	<0.0044	<0.0044	<0.0044	<0.0089	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(63)-2	**AOC 6**	2/1/07	2	<1.0	<50	<0.24	<0.0048	<0.0048	<0.0048	<0.0096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(63)-10	**AOC 6**	2/1/07	10	<0.99	<49	<0.24	<0.0049	<0.0049	<0.0049	<0.0097	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(63)-20	**AOC 6**	2/1/07	20	**1.5**	<50	<0.24	<0.0047	<0.0047	<0.0047	<0.0095	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(63)-30	**AOC 6**	2/1/07	30	<0.99	<50	<0.24	<0.0048	<0.0048	<0.0048	<0.0097	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(63)-40	**AOC 6**	2/1/07	40	**2.3**	<50	<0.24	<0.0048	<0.0048	<0.0048	<0.0096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
SUMMARY OF ANALYTICAL RESULTS - SOIL

Hanson Aggregates Site

3000 Busch Road
Pleasanton, California

				Concentration (mg/kg)			VOCs				Concentration (mg/kg)															
							BTEX (mg/kg)				Metals (mg/kg)															
				TPH-d (C_{10}-C_{28})	TPH-mo (C_{24}-C_{36})	TPH-g (C_5-C_{12})	Benzene	Toluene	Ethylbenzene	Xylenes (total)	Silver	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Molybdenum	Nickel	Lead	Antimony	Selenium	Thallium	Vanadium	Zinc	Mercury
			2016 Tier 1 ESLs	230	5100	100	0.044	2.9	1.4	2.3	390	11 [a]	3000	42	39	23	120000 [b]	3100	390	820 [c]	80	31	390	0.78	390	23000	13
Sample ID	**AOC Number**	Sample Date	Sample Depth (ft)																							
SS(78)-2	**No AOC**	2/1/07	2	<1.0	<50	<0.23	<0.0046	<0.0046	<0.0046	<0.0092	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(78)-10	**No AOC**	2/1/07	10	<0.99	<50	<0.23	<0.0047	<0.0047	<0.0047	<0.0094	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(78)-20	**No AOC**	2/1/07	20	<0.99	<50	<0.24	<0.0047	<0.0047	<0.0047	<0.0095	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(78)-30	**No AOC**	2/1/07	30	<0.99	<49	<0.25	<0.0050	<0.0050	<0.0050	<0.0099	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(78)-40	**No AOC**	2/1/07	40	<0.99	<50	<0.23	<0.0046	<0.0046	<0.0046	<0.0093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(90)-2	**AOC 9**	1/31/07	2	**30**	**210**	<0.23	<0.0047	<0.0047	<0.0047	<0.0094	<0.98	**2.1**	**47**	<0.49	<0.49	**11**	**40**	**38**	<0.98	**43**	**2.3**	<2.0	<2.0	<0.98	**42**	**35**	**0.42**
SS(90)-10	**AOC 9**	1/31/07	10	**14**	**100**	<0.25	<0.0049	<0.0049	<0.0049	<0.0099	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(90)-20	**AOC 9**	1/31/07	20	**68**	**350**	<0.24	<0.0048	<0.0048	<0.0048	<0.0096	<1.0	**3.2**	**81**	<0.51	<0.51	**12**	**38**	**73**	<1.0	**65**	**4.0**	<2.0	<2.0	<1.0	**32**	**37**	**0.23**
SS(90)-30	**AOC 9**	1/31/07	30	**7.2**	<50	<0.24	<0.0048	<0.0048	<0.0048	<0.0096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(90)-40	**AOC 9**	1/31/07	40	<0.99	<50	<0.25	<0.0049	<0.0049	<0.0049	<0.0098	<0.98	**4.4**	**150**	<0.49	<0.49	**15**	**57**	**27**	<0.98	**110**	**6.0**	<2.0	<2.0	<0.98	**24**	**39**	<0.048
SS(97)-2	**No AOC**	1/31/07	2	**27**	**220**	<0.25	<0.0050	<0.0050	<0.0050	<0.0099	<1.0	**3.9**	**120**	<0.50	<0.50	**12**	**54**	**31**	<1.0	**72**	**7.4**	<2.0	<2.0	<1.0	**32**	**42**	**0.10**
SS(97)-10	**No AOC**	1/31/07	10	**4.5**	<50	<0.25	<0.0050	<0.0050	<0.0050	<0.0099	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(97)-20	**No AOC**	1/31/07	20	<1.0	<50	<0.25	<0.0049	<0.0049	<0.0049	<0.0098	<0.98	**4.3**	**140**	<0.49	<0.49	**15**	**60**	**29**	<0.98	**140**	**5.6**	<2.0	<2.0	<0.98	**23**	**40**	**0.053**
SS(97)-30	**No AOC**	1/31/07	30	<0.99	<50	<0.25	<0.0050	<0.0050	<0.0050	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(97)-40	**No AOC**	1/31/07	40	<1.0	<50	<0.24	<0.0049	<0.0049	<0.0049	<0.0098	<0.97	**5.0**	**130**	<0.49	<0.49	**17**	**61**	**30**	<0.97	**140**	**6.6**	<1.9	<1.9	<0.97	**24**	**40**	**0.064**
SS(105)-2	**AOC 5**	1/10/07	2	**1.1**	<48	<0.23	<0.0047	<0.0047	<0.0047	<0.0094	<0.95	**5.1**	**150**	<0.48	<0.48	**13**	**61**	**28**	<0.95	**87**	**6.6**	**2.4**	<1.9	<0.95	**28**	**47**	**0.081**
SS(105)-10	**AOC 5**	1/10/07	10	<0.96	<48	<0.24	<0.0049	<0.0049	<0.0049	<0.0098	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(105)-20	**AOC 5**	1/10/07	20	<0.96	<48	<0.25	<0.0049	<0.0049	<0.0049	<0.0098	<0.99	**4.5**	**140**	<0.50	<0.50	**11**	**55**	**27**	<0.99	**82**	**6.2**	<2.0	<2.0	<0.99	**27**	**43**	<0.050
SS(105)-30	**AOC 5**	1/10/07	30	<0.96	<48	<0.25	<0.0049	<0.0049	<0.0049	<0.0098	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(105)-40	**AOC 5**	1/10/07	40	**1.2**	<49	<0.24	<0.0048	<0.0048	<0.0048	<0.0096	<1.0	**5.6**	**270**	<0.51	<0.51	**17**	**72**	**37**	<1.0	**130**	**7.7**	<2.0	<2.0	<1.0	**31**	**50**	<0.051
SS(123)-2	**AOC 8**	1/30/07	2	**8.1**	<50	<0.25	<0.0050	<0.0050	<0.0050	<0.0099	<0.98	**3.7**	**190**	<0.49	<0.49	**7.5**	**35**	**22**	**1.2**	**33**	**8.0**	<2.0	<2.0	<0.98	**56**	**40**	**0.17**
SS(123)-10	**AOC 8**	1/30/07	10	**44**	**310**	<0.25	<0.0050	<0.0050	<0.0050	<0.0099	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(123)-20	**AOC 8**	1/30/07	20	**230**	**1300**	<0.24	<0.0048	<0.0048	<0.0048	<0.0097	<1.0	**4.0**	**91**	<0.50	<0.50	**8**	**27**	**19**	<1.0	**39**	**16**	<2.0	<2.0	<1.0	**33**	**36**	<0.049
SS(123)-30	**AOC 8**	1/30/07	30	**300**	**1600**	<0.22	<0.0045	<0.0045	<0.0045	<0.0090	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(123)-40	**AOC 8**	1/30/07	40	**450**	**2300**	<0.24	<0.0048	<0.0048	<0.0048	<0.0096	<0.95	**2.9**	**94**	<0.48	<0.48	**7.9**	**29**	**27**	<0.95	**34**	**11**	<1.9	<1.9	<0.95	**27**	**34**	<0.048
SS(128)-5.5'	**AOC 4**	1/10/07	5.5	<0.96	<48	<0.24	<0.0048	<0.0048	<0.0048	<0.0097	<1.0	**4.2**	**110**	<0.50	<0.50	**11.0**	**56**	**23**	<1.0	**76**	**5.1**	<2.0	<2.0	<1.0	**24**	**38**	<0.049
SS(128)-10'	**AOC 4**	1/10/07	10	**1.4**	<48	<0.25	<0.0050	<0.0050	<0.0050	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(128)-20'	**AOC 4**	1/10/07	20	<0.97	<48	<0.24	<0.0048	<0.0048	<0.0048	<0.0095	<0.96	**2.6**	**59**	<0.48	<0.48	**7.2**	**35**	**15**	<0.96	**48**	**3.2**	<1.9	<1.9	<0.96	**20**	**28**	<0.050
SS(128)-30'	**AOC 4**	1/10/07	30	<1.0	<50	<0.24	<0.0049	<0.0049	<0.0049	<0.0098	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(128)-40'	**AOC 4**	1/10/07	40	**1.2**	<47	<0.23	<0.0046	<0.0046	<0.0046	<0.0092	<1.0	**3.0**	**130**	<0.51	<0.51	**9.5**	**26**	**22**	<1.0	**39**	**4.6**	<2.0	<2.0	<1.0	**30**	**36**	<0.050
SS(130)-2	**AOC 5**	1/30/07	2	**7.3**	<50	<0.25	<0.0049	<0.0049	<0.0049	<0.0099	<1.0	**3.0**	**100**	<0.50	<0.50	**8.5**	**37**	**20**	<1.0	**58**	**7.0**	<2.0	<2.0	<1.0	**23**	**31**	<0.048
SS(130)-10	**AOC 5**	1/30/07	10	**2.4**	<50	<0.25	<0.0049	<0.0049	<0.0049	<0.0098	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(130)-20	**AOC 5**	1/30/07	20	<1.0	<50	<0.24	<0.0049	<0.0049	<0.0049	<0.0098	<1.0	**5.8**	**160**	<0.51	<0.51	**13**	**60**	**30**	<1.0	**81**	**7.2**	<2.0	<2.0	<1.0	**30**	**48**	<0.050
SS(130)-30	**AOC 5**	1/30/07	30	**8.6**	<50	<0.24	<0.0049	<0.0049	<0.0049	<0.0097	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(130)-40	**AOC 5**	1/30/07	40	**11**	<50	<0.25	<0.0050	<0.0050	<0.0050	<0.0099	<0.96	**2.9**	**98**	<0.49	<0.49	**7.9**	**41**	**20**	<0.98	**56**	**4.3**	<2.0	<2.0	<0.98	**23**	**34**	<0.050
SS(137)-2	**No AOC**	1/30/07	2	**15**	**300**	<0.25	<0.0049	<0.0049	<0.0049	<0.0099	<0.97	**2.2**	**80**	<0.49	<0.49	**6.8**	**25**	**16**	<0.97	**39**	**2.7**	<1.9	<1.9	<0.97	**21**	**28**	<0.050
SS(137)-10	**No AOC**	1/30/07	10	**29**	**430**	<0.24	<0.0049	<0.0049	<0.0049	<0.0097	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(137)-20	**No AOC**	1/30/07	20	**42**	**290**	<0.25	<0.0049	<0.0049	<0.0049	<0.0099	<1.0	**3.8**	**150**	<0.50	<0.50	**8.0**	**62**	**20**	**1.2**	**44**	**4.1**	<2.0	<2.0	<1.0	**34**	**30**	<0.049
SS(137)-30	**No AOC**	1/30/07	30	**17**	**71**	<0.24	<0.0049	<0.0049	<0.0049	<0.0097	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(137)-40	**No AOC**	1/30/07	40	**24**	**270**	<0.24	<0.0049	<0.0049	<0.0049	<0.0097	<0.97	**3.0**	**100**	<0.49	<0.49	**5.9**	**28**	**16**	<0.97	**36**	**3.3**	<1.9	<1.9	<0.97	**23**	**27**	<0.049

TABLE 1
SUMMARY OF ANALYTICAL RESULTS - SOIL

Hanson Aggregates Site

3000 Busch Road
Pleasanton, California

				Concentration (mg/kg)							Concentration (mg/kg)																
							VOCs				Metals (mg/kg)																
							BTEX (mg/kg)																				
				TPH-d (C_{10}-C_{28})	TPH-mo (C_{24}-C_{36})	TPH-g (C_5-C_{12})	Benzene	Toluene	Ethylbenzene	Xylenes (total)	Silver	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Molybdenum	Nickel	Lead	Antimony	Selenium	Thallium	Vanadium	Zinc	Mercury
			2016 Tier 1 ESLs	230	5100	100	0.044	2.9	1.4	2.3	390	11 [a]	3000	42	39	23	120000 [b]	3100	390	820 [c]	80	31	390	0.78	390	23000	13
Sample ID	**AOC Number**	Sample Date	Sample Depth (ft)																								
SS(143)-2	**AOC 5**	1/30/07	2	**3.5**	<50	<0.25	<0.0050	<0.0050	<0.0050	<0.0099	<0.96	**3.5**	**100**	<0.48	<0.48	**10**	**55**	**21**	<0.96	**73**	**4.0**	<1.9	<1.9	<0.96	**25**	**33**	<0.049
SS(143)-10	**AOC 5**	1/30/07	10	**3.2**	<50	<0.24	<0.0049	<0.0049	<0.0049	<0.0097	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(143)-20	**AOC 5**	1/30/07	20	**3.5**	<50	<0.24	<0.0048	<0.0048	<0.0048	<0.0096	<0.95	**4.6**	**120**	<0.48	<0.48	**12**	**72**	**25**	<0.95	**79**	**5.7**	<1.9	<1.9	<0.95	**26**	**41**	<0.048
SS(143)-30	**AOC 5**	1/30/07	30	<1.0	<50	<0.25	<0.0050	<0.0050	<0.0050	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS(143)-40	**AOC 5**	1/30/07	40	**21**	Revi	<0.24	<0.0049	<0.0049	<0.0049	<0.0097	<0.96	**3.9**	**140**	<0.48	<0.48	**17**	**43**	**66**	**1.4**	**64**	**6.7**	<1.9	<1.9	<0.96	**27**	**42**	**0.063**

Abbreviations/Acronyms:

NA - not analyzed
µg/kg- micrograms per kilogram
mg/kg - milligrams per kilogram
ND- not detected at or above the
laboratory reporting limit
ESL - California Regional Water Quality Controll Board Environmental Screening Levels.

a = ESL based on upper estimate of background arsenic concentration as referenced by the SFBRWQCB per, "Establishing background arsenic in Soil of the Urbanized San Francisco Bay Region", Dated December 2011
b = ESL for Chromium III
c = ESL for Direct Exposure Human Health, Residential Shallow Soil

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 2
SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER

Hanson Radum Site

3000 Busch Road
Pleasanton, California

			TPH			VOCs - BTEX				Metals																
			Concentration (µg/L)							Concentration (mg/L)																
			TPH-d (C_{10}-C_{28})	TPH-mo (C_{24}-C_{36})	TPH-g (C_5-C_{12})	Benzene	Toluene	Ethylbenzene	Xylenes	Silver	Arsenic	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Molybdenum	Nickel	Lead	Antimony	Selenium	Thallium	Vanadium	Zinc	Mercury
		2016 Tier 1 ESLs	100	-	100	1	40	13	20	0.19	10	1000	2.7	0.25	3.0	180	3.1	100	8.2	2.5	6	5	2	19	81	0.051
		2016 Tier 1 ESLs																								
Sample ID	**AOC Number**	Sample Date																								
123(A)	**AOC 8**	3/8/07	**240**	<500	<50	0.76	<0.50	<0.50	<1.0	<0.0047	**0.011**	**0.069**	<0.0047	<0.0019	<0.0047	<0.0047	<0.0047	**0.13**	**0.042**	<0.0047	<0.0047	<0.0047	<0.0047	**0.067**	**0.13**	<0.00010
123(B)	**AOC 8**	3/8/07	**220**	**520**	<50	<0.50	<0.50	<0.50	<1.0	<0.0047	**0.011**	**0.13**	<0.0047	<0.0019	<0.0047	**0.0083**	<0.0047	**0.056**	**0.017**	<0.0047	<0.0047	<0.0047	<0.0047	**0.035**	<0.0093	<0.00010
123(C)	**AOC 8**	3/8/07	**380**	<500	<50	<0.50	<0.50	<0.50	<1.0	<0.0047	**0.010**	**0.25**	<0.0047	<0.0019	<0.0047	<0.0047	<0.0047	**0.036**	**0.015**	<0.0047	<0.0047	<0.0047	<0.0047	**0.0051**	<0.0093	<0.00010
123(D)	**AOC 8**	3/8/07	**200**	<500	<50	<0.50	<0.50	<0.50	<1.0	<0.0047	**0.017**	**0.043**	<0.0047	<0.0019	<0.0047	**0.0069**	<0.0047	**0.080**	**0.012**	**0.0071**	<0.0047	<0.0047	<0.0047	**0.045**	<0.0093	<0.00010

Abbreviations/Acronyms:

TPH - Total Petroleum Hydrocarbons by Environmental Protection Agency's (EPA) Test Method 8015B.
VOCs - Volatile Organic Compounds by EPA Test Method 8260B.
Metals - Analyzed by EPA Test Method 6010B.
NA - Not analyzed.
<## - Not detected at or above the laboratory reporting limit (shown)
µg/kg- Micrograms per kilogram
mg/l - Milligrams per liter
ND - Not detected at or above the laboratory reporting limit
ESL - California Regional Water Quality Control Board Environmental Screening Levels were groundwater is a current or potential drinking water resource.

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

TABLE 1
SUMMARY OF ANALYTICAL RESULTS - SOIL

Hanson Radum Site

3000 Busch Road
Pleasanton, California

						SVOCs															
				Concentration (mg/kg)		Concentration (ug/kg)															
				TPH-d (C_{10}-C_{28})	TPH-mo (C_{24}-C_{36})	Naphthalene	Acenaphthene	Acenaphthylene	Fluorene	Phenanthrene	Anthracene	Benzo[a]anthracene	Chrysene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Benzo[g,h,i]perylene	Indeno[1,2,3-cd]pyrene	Fluoranthene	Pyrene	Dibenz(a,h)anthracene
		2016 Tier 1 ESLs		230	5100	33	16000	13000	8900	11000	-	160	3800	16	160	1600	2500	-	60000	85000	16
Sample ID	**AOC Number**	Sample Date	Sample Depth (ft)																		
123(E)-5	**AOC 8**	5/16/07	5	**13**	**51**	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8
123(E)-10	**AOC 8**	5/16/07	10	**38**	**130**	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
123(E)-15	**AOC 8**	5/16/07	15	**300**	**930**	<99	<99	<99	<99	<99	<99	<99	<99	<99	<99	<99	<99	<99	<99	<99	<99
123(E)-25	**AOC 8**	5/16/07	25	**13**	<50	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	**5.7**	**6.0**	**7.7**	**9.1**	<4.9	**6.9**	**5.2**	**8.7**	**11**	<4.9
123(F)-5	**AOC 8**	5/16/07	5	**550**	**2700**	<99	<99	<99	<99	<99	<99	<99	<99	<99	<99	<99	<99	<99	<99	<99	<99
123(F)-10	**AOC 8**	5/16/07	10	**220**	**910**	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
123(F)-15	**AOC 8**	5/16/07	15	**270**	**760**	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
123(F)-20	**AOC 8**	5/16/07	20	**180**	**510**	<4.9	<4.9	<4.9	<4.9	**19**	<4.9	**7.0**	**7.9**	**5.9**	**7.8**	<4.9	<4.9	<4.9	**18.0**	**20**	<4.9
123(F)-25	**AOC 8**	5/16/07	25	**17**	**59**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
123(F) 30	**AOC 8**	5/16/07	30	**2.1**	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
123(G)-5	**AOC 8**	5/16/07	5	**790**	**2800**	<490	<490	<490	<490	<490	<490	<490	<490	<490	<490	<490	<490	<490	<490	<490	<490
123(G)-10	**AOC 8**	5/16/07	10	**22**	<49	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
123(G)-15	**AOC 8**	5/16/07	15	**1.4**	<49	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
123(G)-20	**AOC 8**	5/16/07	20	**18**	<48	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	**5.9**	**10**	**6.7**	**7.2**	**11**	**8.7**	**8.5**	<4.9	<4.9	**10**
123(G)-25	**AOC 8**	5/16/07	25	**6.3**	<49	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
123(G)-30	**AOC 8**	5/16/07	30	**1.8**	<48	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
123(G)-35	**AOC 8**	5/16/07	35	**1.8**	<47	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
123(H)-5	**AOC 8**	5/17/07	5	**53**	**170**	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
123(H)-10	**AOC 8**	5/17/07	10	**15**	<48	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
123(H)-15	**AOC 8**	5/17/07	15	**150**	**570**	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	**59**	<50	<50	<50	<50
123(H)-20	**AOC 8**	5/17/07	20	**31**	<46	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
123(H)-25	**AOC 8**	5/17/07	25	**19**	**51**	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9
123(H)-30	**AOC 8**	5/17/07	30	**6.9**	<48	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9
123(H)-35	**AOC 8**	5/17/07	35	**4.6**	<46	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Abbreviations/Acronyms:

SVOCs - Semi volatile Organic Compounds by Environmental Protection Agency's (EPA) Test Method 8270C.
TPH - Total Petroleum Hydrocarbons by EPA Test Method 8015B.
mg/l - Milligrams per liter.
µg/kg- Micrograms per kilogram.
<## - Not detected at or above the laboratory reporting limit (shown).
ESL - California Regional Water Quality Control Board Environmental Screening Level.

Green Highlight indicates reporting limit exceeds Tier 1 ESL
Orange highlight indicates the reported quantity exceeds Tier 1 ESL

Table 2A - Summary of Analytical Results of Petroleum Hydrocarbons and Associated Compounds Detected in Soil Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per kilogram (mg/Kg) or micrograms per kilogram (ug/Kg), as noted)

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Total Petroleum Hydrocarbons TPHd (mg/Kg)	TPHmo (mg/Kg)	TPHg (mg/Kg)	BTEX compounds B (ug/Kg)	T (ug/Kg)	E (ug/Kg)	m,p-X (ug/Kg)	o-X (ug/Kg)
AOC 3	B-1(A)-4.5	7/17/2007	4	4.5	soil	<1	<5	<1	-	-	-	-	-
AOC 3	B-1(A)-9.5	7/17/2007	9	9.5	soil	<1	**7.4 H**	<0.94	-	-	-	-	-
AOC 3	B-1(A)-35	7/17/2007	34.5	35	soil	<1	<5	-	-	-	-	-	-
AOC 3	B-1(A)-36.5	7/17/2007	36	36.5	soil	-	-	-	-	-	-	-	-
AOC 2	EB-31(A)-5.5	7/17/2007	5	5.5	soil	**1.3 HY**	**16 H**	-	-	-	-	-	-
AOC 2	EB-31(A)-10.5	7/17/2007	10	10.5	soil	**14 HY**	**170 H**	-	-	-	-	-	-
AOC 2	EB-31(A)-15.5	7/17/2007	15	15.5	soil	<0.99	<5	-	-	-	-	-	-
AOC 2	EB-31(A)-20.5	7/17/2007	20	20.5	soil	<1	<5	-	-	-	-	-	-
AOC 2	EB-31(B)-5.5	7/16/2007	5	5.5	soil	**1 HYZ**	<5	-	-	-	-	-	-
AOC 2	EB-31(B)-10.5	7/16/2007	10	10.5	soil	**1.9 HYZ**	<5	-	-	-	-	-	-
AOC 2	EB-31(B)-15.5	7/16/2007	15	15.5	soil	<0.99	**5.4 HL**	-	-	-	-	-	-
AOC 2	EB-31(B)-20.5	7/16/2007	20	20.5	soil	**2.3 HYZ**	**10 HL**	-	-	-	-	-	-
AOC 2	EB-31(C)-5	7/16/2007	4.5	5	soil	**8.2 HYZ**	**87 HL**	-	-	-	-	-	-
AOC 2	EB-31(C)-10.5	7/16/2007	10	10.5	soil	**2.3 HYZ**	<5	-	-	-	-	-	-
AOC 2	EB-31(C)-15.5	7/16/2007	15	15.5	soil	**1.5 HYZ**	<5	-	-	-	-	-	-
AOC 2	EB-31(C)-20.5	7/16/2007	20	20.5	soil	<1	<5	-	-	-	-	-	-
AOC 3	EB-35(A)-3	7/17/2007	2.5	3	soil	-	-	-	-	-	-	-	-
AOC 3	EB-35(A)-4	7/17/2007	3.5	4	soil	**48 HY**	**540 H**	-	-	-	-	-	-
AOC 3	EB-35(A)-9.5	7/17/2007	9	9.5	soil	<1	**5.2 H**	-	-	-	-	-	-
AOC 3	EB-35(B)-2.5	7/17/2007	2	2.5	soil	-	-	-	-	-	-	-	-
AOC 3	EB-35(B)-5	7/17/2007	4.5	5	soil	**160 HY**	**3,600 H**	-	-	-	-	-	-
AOC 3	EB-35(B)-9	7/17/2007	8.5	9	soil	<0.99	<5	-	-	-	-	-	-
AOC 3	EB-35(C)-2.5	7/18/2007	2	2.5	soil	-	-	-	-	-	-	-	-
AOC 3	EB-35(C)-5.5	7/18/2007	5	5.5	soil	<1	<5	-	-	-	-	-	-
AOC 3	EB-35(C)-10.5	7/18/2007	10	10.5	soil	<1	<5	-	-	-	-	-	-
AOC 3	EB-35(D)-2.5	7/18/2007	2	2.5	soil	-	-	-	-	-	-	-	-
AOC 3	EB-35(D)-5.5	7/18/2007	5	5.5	soil	**38 HY**	**810 H**	-	-	-	-	-	-
AOC 3	EB-35(D)-9.5	7/18/2007	9	9.5	soil	<0.99	<5	-	-	-	-	-	-
AOC 7	SS-31(A)-5.5	7/18/2007	5	5.5	soil	<0.99	**5.9 H**	<1	<4.9	<4.9	<4.9	<4.9	<4.9
AOC 7	SS-31(A)-10.5	7/18/2007	10	10.5	soil	<1	<5	<0.94	<4.7	<4.7	<4.7	<4.7	<4.7
AOC 7	SS-31(A)-15.5	7/18/2007	15	15.5	soil	<0.99	<5	<1.1	<4.8	<4.8	<4.8	<4.8	<4.8

Feb. 2016 TIER 1 ESLs						230	5100	100	44	2900	1400	2300	2300

Table 2A - Summary of Analytical Results of Petroleum Hydrocarbons and Associated Compounds Detected in Soil Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per kilogram (mg/Kg) or micrograms per kilogram (ug/Kg), as noted)

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Total Petroleum Hydrocarbons TPHd (mg/Kg)	TPHmo (mg/Kg)	TPHg (mg/Kg)	BTEX compounds B (ug/Kg)	T (ug/Kg)	E (ug/Kg)	m,p-X (ug/Kg)	o-X (ug/Kg)
AOC 7	SS-31(A)-20.5	7/18/2007	20	20.5	soil	<1	<5	<1	<4.6	<4.6	<4.6	<4.6	<4.6
AOC 7	SS-31(A)-25.5	7/18/2007	25	25.5	soil	<1	<5	<1	<4.8	<4.8	<4.8	<4.8	<4.8
AOC 7	SS-31(A)-30.5	7/18/2007	30	30.5	soil	<0.99	<5	<0.98	<5	<5	<5	<5	<5
AOC 7	SS-31(A)-40.5	7/19/2007	40	40.5	soil	<1	<5	<1	<4.8	<4.8	<4.8	<4.8	<4.8
AOC 7	SS-31(A)-50.5	7/19/2007	50	50.5	soil	<0.99	<5	<0.97	<4.6	<4.6	<4.6	<4.6	<4.6
AOC 7	SS-31(A)-52.5	7/19/2007	52	52.5	soil	<0.99	<5	<0.99	<4.7	<4.7	<4.7	<4.7	<4.7
AOC 7	SS-31(A)-60.5	7/19/2007	60	60.5	soil	<1	<5	<1	<4.5	<4.5	<4.5	<4.5	<4.5
AOC 7	SS-31(A)-65.5	7/19/2007	65	65.5	soil	-	-	-	-	-	-	-	-
AOC 7	SS-31(B)-5.5	7/19/2007	5	5.5	soil	**2.6 HYZ**	**11 H**	<1	<4.7	<4.7	<4.7	<4.7	<4.7
AOC 7	SS-31(B)-10.5	7/19/2007	10	10.5	soil	**6.2 HYZ**	**75 HL**	<0.99	<4.8	<4.8	<4.8	<4.8	<4.8
AOC 7	SS-31(B)-15.5	7/19/2007	15	15.5	soil	**1.2 YZ**	**6.3 H**	<0.96	<4.8	<4.8	<4.8	<4.8	<4.8
AOC 7	SS-31(B)-20.5	7/19/2007	20	20.5	soil	**6.4 YZ**	<5	<1	<4.6	<4.6	<4.6	<4.6	<4.6
AOC 7	SS-31(B)-25.5	7/19/2007	25	25.5	soil	**27 YZ**	<5	<0.97	<4.8	<4.8	<4.8	<4.8	<4.8
AOC 7	SS-31(B)-30.5	7/19/2007	30	30.5	soil	**32 YZ**	**5.4 HLZ**	<0.97	<4.5	<4.5	<4.5	<4.5	<4.5
AOC 7	SS-31(B)-40	7/19/2007	39.5	40	soil	**21 YZ**	<5	<1	<4.5	<4.5	<4.5	<4.5	<4.5
AOC 7	SS-31(B)-50	7/19/2007	49.5	50	soil	**17 YZ**	**160 YZ**	<1	<4.5	<4.5	<4.5	<4.5	<4.5
AOC 7	SS-31(B)-60.5	7/19/2007	60	60.5	soil	**9.2 YZ**	<5	<0.99	<4.9	<4.9	<4.9	<4.9	<4.9
AOC 7	SS-31(C)-5.5	7/20/2007	5	5.5	soil	**2 HYZ**	<5	<1	<5	<5	<5	<5	<5
AOC 7	SS-31(C)-10.5	7/20/2007	10	10.5	soil	<1	<5	<1	<4.5	<4.5	<4.5	<4.5	<4.5
AOC 7	SS-31(C)-15.5	7/20/2007	15	15.5	soil	<0.99	<5	<0.98	<4.5	<4.5	<4.5	<4.5	<4.5
AOC 7	SS-31(C)-19.5	7/20/2007	19	19.5	soil	**2.3 YZ**	<5	<0.97	<4.9	<4.9	<4.9	<4.9	<4.9
AOC 7	SS-31(C)-25.5	7/20/2007	25	25.5	soil	<1	<5	<1	<4.9	<4.9	<4.9	<4.9	<4.9
AOC 7	SS-31(C)-30	7/20/2007	29.5	30	soil	<1	<5	<1	<4.8	<4.8	<4.8	<4.8	<4.8
AOC 7	SS-31(C)-40	7/20/2007	39.5	40	soil	<1	<5	<1	<4.9	<4.9	<4.9	<4.9	<4.9
AOC 7	SS-31(C)-51	7/20/2007	50.5	51	soil	<0.99	<5	<0.99	<5	<5	<5	<5	<5
AOC 7	SS-31(C)-60.5	7/20/2007	60	60.5	soil	**5.7 YZ**	<5	<1.1	<4.9	<4.9	<4.9	<4.9	<4.9
AOC 7	SS-31(C)-67.5	7/20/2007	67	67.5	soil	-	-	-	-	-	-	-	-
AOC 7	SS-31(D)-5.5	7/20/2007	5	5.5	soil	<0.99	<5	<0.96	<4.8	<4.8	<4.8	<4.8	<4.8
AOC 7	SS-31(D)-10.5	7/20/2007	10	10.5	soil	**1.7 HYZ**	**9.4 HL**	<0.96	<4.7	<4.7	<4.7	<4.7	<4.7
AOC 7	SS-31(D)-15	7/20/2007	14.5	15	soil	**3.2 YZ**	<5	<0.98	<4.5	<4.5	<4.5	<4.5	<4.5
AOC 7	SS-31(D)-19.5	7/20/2007	19	19.5	soil	<0.99	<5	<0.98	<4.6	<4.6	<4.6	<4.6	<4.6
AOC 7	SS-31(D)-25	7/23/2007	24.5	25	soil	<0.99	<5	<1	<5	<5	<5	<5	<5

Feb 2016 TIER 1 ESLs	230	5100	100	44	2900	1400	2300	2300

Table 2A - Summary of Analytical Results of Petroleum Hydrocarbons and Associated Compounds Detected in Soil Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per kilogram (mg/Kg) or micrograms per kilogram (ug/Kg), as noted)

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Total Petroleum Hydrocarbons TPHd (mg/Kg)	TPHmo (mg/Kg)	TPHg (mg/Kg)	BTEX compounds B (ug/Kg)	T (ug/Kg)	E (ug/Kg)	m,p-X (ug/Kg)	o-X (ug/Kg)
AOC 7	SS-31(D)-30	7/23/2007	29.5	30	soil	<1	<5	<0.99	<4.7	<4.7	<4.7	<4.7	<4.7
AOC 7	SS-31(D)-40	7/23/2007	39.5	40	soil	<1	<5	<1	<4.9	<4.9	<4.9	<4.9	<4.9
AOC 7	SS-31(D)-50.5	7/23/2007	50	50.5	soil	<1	<5	<0.95	<4.5	<4.5	<4.5	<4.5	<4.5
AOC 7	SS-31(D)-60.5	7/23/2007	60	60.5	soil	<0.99	<5	<1	<5	<5	<5	<5	<5
AOC 8	SS-123(AA)-5.5	7/24/2007	5	5.5	soil	**1.6 HY**	**15 H**	-	-	-	-	-	-
AOC 8	SS-123(AA)-7.5	7/24/2007	7	7.5	soil	**89 HY**	**810 H**	-	-	-	-	-	-
AOC 8	SS-123(AA)-10.5	7/24/2007	10	10.5	soil	**1.9 HYZ**	**11 H**	-	-	-	-	-	-
AOC 8	SS-123(AA)-15.5	7/24/2007	15	15.5	soil	**39 HY**	**450 H**	-	-	-	-	-	-
AOC 8	SS-123(AA)-18	7/24/2007	17.5	18	soil	**170 HY**	**1,500 H**	-	-	-	-	-	-
AOC 8	SS-123(F1)-5.5	7/23/2007	5	5.5	soil	**14 HY**	**110 HL**	-	-	-	-	-	-
AOC 8	SS-123(F1)-15.5	7/23/2007	15	15.5	soil	**20 HY**	**46 HL**	-	-	-	-	-	-
AOC 8	SS-123(F2)-6	7/23/2007	5.5	6	soil	**54 HY**	**430 HL**	-	-	-	-	-	-
AOC 8	SS-123(F2)-11.5	7/23/2007	11	11.5	soil	**35 HY**	**290 HL**	-	-	-	-	-	-
AOC 8	SS-123(F2)-16.5	7/23/2007	16	16.5	soil	**27 HY**	**120 HL**	-	-	-	-	-	-
AOC 8	SS-123(F2)-21	7/24/2007	20.5	21	soil	**10 HY**	**29 HL**	-	-	-	-	-	-
AOC 8	SS-123(F3)-5.5	7/24/2007	5	5.5	soil	**83 HY**	**970 H**	-	-	-	-	-	-
AOC 8	SS-123(F3)-10.5	7/24/2007	10	10.5	soil	**3.3 HY**	**39 H**	-	-	-	-	-	-
AOC 8	SS-123(F3)-15.5	7/24/2007	15	15.5	soil	**19 HY**	**270 H**	-	-	-	-	-	-
AOC 8	SS-123(F3)-20.5	7/24/2007	20	20.5	soil	<1	<5	-	-	-	-	-	-
AOC 8	SS-123(F3)-25.5	7/24/2007	25	25.5	soil	**1.5 HYZ**	**8.2 H**	-	-	-	-	-	-
AOC 6	SED-1	7/13/2007	0	0.5	soil	<1	**7.1 H**	-	-	-	-	-	-
AOC 6	SED-2	7/13/2007	0	0.5	soil	**13 HY**	**130 H**	-	-	-	-	-	-
AOC 6	SED-3	7/13/2007	0	0.5	soil	**100 HY**	**650 HL**	-	-	-	-	-	-
AOC 6	SED-4	7/13/2007	0	0.5	soil	**50 HY**	**300 HL**	-	-	-	-	-	-
ESLs				shallow or deep soils		100	1,000	100	44	2,900	3,300	2,300	2,300
						Feb 2016 TIER 1 ESLs	230	5100	100	44	2900	1400	2300	2300

Table 2A - Summary of Analytical Results of
Petroleum Hydrocarbons and Associated Compounds Detected in Soil Samples
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per kilogram (mg/Kg) or micrograms per kilogram (ug/Kg), as noted)

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Total Petroleum Hydrocarbons TPHd (mg/Kg)	TPHmo (mg/Kg)	TPHg (mg/Kg)	BTEX compounds B (ug/Kg)	T (ug/Kg)	E (ug/Kg)	m,p-X (ug/Kg)	o-X (ug/Kg)

Notes:

feet bgs = feet below ground surface

mg/Kg = milligrams per kilogram

ug/Kg = micrograms per kilogram

TPHd = total petroleum hydrocarbons as diesel

TPHmo = total petroleum hydrocarbons as motor oil

TPHg = total petroleum hydrocarbons as gasoline

BTEX = benzene, toluene, ethylbenzene, and total xylenes

B = benzene

T = toluene

E = ethylbenzene

m,p-X = m,p-xylenes

o-X = o-xylenes

bold indicates that the compound was detected above the laboratory reporting limit.

1,500 H boxed values exceed the respective ESL.

"<" = not detected above the laboratory report given

"-" = sample not analyzed

H = heavier hydrocarbons contributed to the quantitation

L = lighter hydrocarbons contributed to the quantitation

Y = sample exhibites chromatographic pattern which does not resemble standard

Z = sample exhibits unknown single peak or peaks

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, February 2005, for Shallow or Deep Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Table 2B - Summary of Analytical Results of Petroleum Hydrocarbons and Associated Compounds Detected in Soil Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in micrograms per kilograms (ug/Kg))

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Fuel Oxygenates MTBE (ug/Kg)	TAME (ug/Kg)	DIPE (ug/Kg)	ETBE (ug/Kg)	TBA (ug/Kg)	Lead Scavengers EDB (ug/Kg)	EDC (ug/Kg)
AOC 3	B-1(A)-4.5	7/17/2007	4	4.5	soil	-	-	-	-	-	-	-
AOC 3	B-1(A)-9.5	7/17/2007	9	9.5	soil	-	-	-	-	-	-	-
AOC 3	B-1(A)-35	7/17/2007	34.5	35	soil	-	-	-	-	-	-	-
AOC 3	B-1(A)-36.5	7/17/2007	36	36.5	soil	-	-	-	-	-	-	-
AOC 2	EB-31(A)-5.5	7/17/2007	5	5.5	soil	-	-	-	-	-	-	-
AOC 2	EB-31(A)-10.5	7/17/2007	10	10.5	soil	-	-	-	-	-	-	-
AOC 2	EB-31(A)-15.5	7/17/2007	15	15.5	soil	-	-	-	-	-	-	-
AOC 2	EB-31(A)-20.5	7/17/2007	20	20.5	soil	-	-	-	-	-	-	-
AOC 2	EB-31(B)-5.5	7/16/2007	5	5.5	soil	-	-	-	-	-	-	-
AOC 2	EB-31(B)-10.5	7/16/2007	10	10.5	soil	-	-	-	-	-	-	-
AOC 2	EB-31(B)-15.5	7/16/2007	15	15.5	soil	-	-	-	-	-	-	-
AOC 2	EB-31(B)-20.5	7/16/2007	20	20.5	soil	-	-	-	-	-	-	-
AOC 2	EB-31(C)-5	7/16/2007	4.5	5	soil	-	-	-	-	-	-	-
AOC 2	EB-31(C)-10.5	7/16/2007	10	10.5	soil	-	-	-	-	-	-	-
AOC 2	EB-31(C)-15.5	7/16/2007	15	15.5	soil	-	-	-	-	-	-	-
AOC 2	EB-31(C)-20.5	7/16/2007	20	20.5	soil	-	-	-	-	-	-	-
AOC 3	EB-35(A)-3	7/17/2007	2.5	3	soil	-	-	-	-	-	-	-
AOC 3	EB-35(A)-4	7/17/2007	3.5	4	soil	-	-	-	-	-	-	-
AOC 3	EB-35(A)-9.5	7/17/2007	9	9.5	soil	-	-	-	-	-	-	-
AOC 3	EB-35(B)-2.5	7/17/2007	2	2.5	soil	-	-	-	-	-	-	-
AOC 3	EB-35(B)-5	7/17/2007	4.5	5	soil	-	-	-	-	-	-	-
AOC 3	EB-35(B)-9	7/17/2007	8.5	9	soil	-	-	-	-	-	-	-
AOC 3	EB-35(C)-2.5	7/18/2007	2	2.5	soil	-	-	-	-	-	-	-
AOC 3	EB-35(C)-5.5	7/18/2007	5	5.5	soil	-	-	-	-	-	-	-
AOC 3	EB-35(C)-10.5	7/18/2007	10	10.5	soil	-	-	-	-	-	-	-
AOC 3	EB-35(D)-2.5	7/18/2007	2	2.5	soil	-	-	-	-	-	-	-
AOC 3	EB-35(D)-5.5	7/18/2007	5	5.5	soil	-	-	-	-	-	-	-
AOC 3	EB-35(D)-9.5	7/18/2007	9	9.5	soil	-	-	-	-	-	-	-
AOC 7	SS-31(A)-5.5	7/18/2007	5	5.5	soil	<4.9	<4.9	<4.9	<4.9	<98	<4.9	<4.9
AOC 7	SS-31(A)-10.5	7/18/2007	10	10.5	soil	<4.7	<4.7	<4.7	<4.7	<94	<4.7	<4.7

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Table 2B - Summary of Analytical Results of Petroleum Hydrocarbons and Associated Compounds Detected in Soil Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in micrograms per kilograms (ug/Kg))

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Fuel Oxygenates MTBE (ug/Kg)	TAME (ug/Kg)	DIPE (ug/Kg)	ETBE (ug/Kg)	TBA (ug/Kg)	Lead Scavengers EDB (ug/Kg)	EDC (ug/Kg)
AOC 7	SS-31(A)-15.5	7/18/2007	15	15.5	soil	<4.8	<4.8	<4.8	<4.8	<96	<4.8	<4.8
AOC 7	SS-31(A)-20.5	7/18/2007	20	20.5	soil	<4.6	<4.6	<4.6	<4.6	<93	<4.6	<4.6
AOC 7	SS-31(A)-25.5	7/18/2007	25	25.5	soil	<4.8	<4.8	<4.8	<4.8	<96	<4.8	<4.8
AOC 7	SS-31(A)-30.5	7/18/2007	30	30.5	soil	<5	<5	<5	<5	<100	<5	<5
AOC 7	SS-31(A)-40.5	7/19/2007	40	40.5	soil	<4.8	<4.8	<4.8	<4.8	<96	<4.8	<4.8
AOC 7	SS-31(A)-50.5	7/19/2007	50	50.5	soil	<4.6	<4.6	<4.6	<4.6	<93	<4.6	<4.6
AOC 7	SS-31(A)-52.5	7/19/2007	52	52.5	soil	<4.7	<4.7	<4.7	<4.7	<94	<4.7	<4.7
AOC 7	SS-31(A)-60.5	7/19/2007	60	60.5	soil	<4.5	<4.5	<4.5	<4.5	<89	<4.5	<4.5
AOC 7	SS-31(A)-65.5	7/19/2007	65	65.5	soil	-	-	-	-	-	-	-
AOC 7	SS-31(B)-5.5	7/19/2007	5	5.5	soil	<4.7	<4.7	<4.7	<4.7	<94	<4.7	<4.7
AOC 7	SS-31(B)-10.5	7/19/2007	10	10.5	soil	<4.8	<4.8	<4.8	<4.8	<96	<4.8	<4.8
AOC 7	SS-31(B)-15.5	7/19/2007	15	15.5	soil	<4.8	<4.8	<4.8	<4.8	<96	<4.8	<4.8
AOC 7	SS-31(B)-20.5	7/19/2007	20	20.5	soil	<4.6	<4.6	<4.6	<4.6	<93	<4.6	<4.6
AOC 7	SS-31(B)-25.5	7/19/2007	25	25.5	soil	<4.8	<4.8	<4.8	<4.8	<96	<4.8	<4.8
AOC 7	SS-31(B)-30.5	7/19/2007	30	30.5	soil	<4.5	<4.5	<4.5	<4.5	<89	<4.5	<4.5
AOC 7	SS-31(B)-40	7/19/2007	39.5	40	soil	<4.5	<4.5	<4.5	<4.5	<89	<4.5	<4.5
AOC 7	SS-31(B)-50	7/19/2007	49.5	50	soil	<4.5	<4.5	<4.5	<4.5	<89	<4.5	<4.5
AOC 7	SS-31(B)-60.5	7/19/2007	60	60.5	soil	<4.9	<4.9	<4.9	<4.9	<98	<4.9	<4.9
AOC 7	SS-31(C)-5.5	7/20/2007	5	5.5	soil	<5	<5	<5	<5	<100	<5	<5
AOC 7	SS-31(C)-10.5	7/20/2007	10	10.5	soil	<4.5	<4.5	<4.5	<4.5	<91	<4.5	<4.5
AOC 7	SS-31(C)-15.5	7/20/2007	15	15.5	soil	<4.5	<4.5	<4.5	<4.5	<91	<4.5	<4.5
AOC 7	SS-31(C)-19.5	7/20/2007	19	19.5	soil	<4.9	<4.9	<4.9	<4.9	<98	<4.9	<4.9
AOC 7	SS-31(C)-25.5	7/20/2007	25	25.5	soil	<4.9	<4.9	<4.9	<4.9	<98	<4.9	<4.9
AOC 7	SS-31(C)-30	7/20/2007	29.5	30	soil	<4.8	<4.8	<4.8	<4.8	<96	<4.8	<4.8
AOC 7	SS-31(C)-40	7/20/2007	39.5	40	soil	<4.9	<4.9	<4.9	<4.9	<98	<4.9	<4.9
AOC 7	SS-31(C)-51	7/20/2007	50.5	51	soil	<5	<5	<5	<5	<100	<5	<5
AOC 7	SS-31(C)-60.5	7/20/2007	60	60.5	soil	<4.9	<4.9	<4.9	<4.9	<98	<4.9	<4.9
AOC 7	SS-31(C)-67.5	7/20/2007	67	67.5	soil	-	-	-	-	-	-	-
AOC 7	SS-31(D)-5.5	7/20/2007	5	5.5	soil	<4.8	<4.8	<4.8	<4.8	<96	<4.8	<4.8
AOC 7	SS-31(D)-10.5	7/20/2007	10	10.5	soil	<4.7	<4.7	<4.7	<4.7	<94	<4.7	<4.7
AOC 7	SS-31(D)-15	7/20/2007	14.5	15	soil	<4.5	<4.5	<4.5	<4.5	<91	<4.5	<4.5
AOC 7	SS-31(D)-19.5	7/20/2007	19	19.5	soil	<4.6	<4.6	<4.6	<4.6	<93	<4.6	<4.6

Table 2B - Summary of Analytical Results of Petroleum Hydrocarbons and Associated Compounds Detected in Soil Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in micrograms per kilograms (ug/Kg))

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Fuel Oxygenates MTBE (ug/Kg)	TAME (ug/Kg)	DIPE (ug/Kg)	ETBE (ug/Kg)	TBA (ug/Kg)	Lead Scavengers EDB (ug/Kg)	EDC (ug/Kg)
AOC 7	SS-31(D)-25	7/23/2007	24.5	25	soil	<5	<5	<5	<5	<100	<5	<5
AOC 7	SS-31(D)-30	7/23/2007	29.5	30	soil	<4.7	<4.7	<4.7	<4.7	<94	<4.7	<4.7
AOC 7	SS-31(D)-40	7/23/2007	39.5	40	soil	<4.9	<4.9	<4.9	<4.9	<98	<4.9	<4.9
AOC 7	SS-31(D)-50.5	7/23/2007	50	50.5	soil	<4.5	<4.5	<4.5	<4.5	<91	<4.5	<4.5
AOC 7	SS-31(D)-60.5	7/23/2007	60	60.5	soil	<5	<5	<5	<5	<100	<5	<5
AOC 8	SS-123(AA)-5.5	7/24/2007	5	5.5	soil	-	-	-	-	-	-	-
AOC 8	SS-123(AA)-7.5	7/24/2007	7	7.5	soil	-	-	-	-	-	-	-
AOC 8	SS-123(AA)-10.5	7/24/2007	10	10.5	soil	-	-	-	-	-	-	-
AOC 8	SS-123(AA)-15.5	7/24/2007	15	15.5	soil	-	-	-	-	-	-	-
AOC 8	SS-123(AA)-18	7/24/2007	17.5	18	soil	-	-	-	-	-	-	-
AOC 8	SS-123(F1)-5.5	7/23/2007	5	5.5	soil	-	-	-	-	-	-	-
AOC 8	SS-123(F1)-15.5	7/23/2007	15	15.5	soil	-	-	-	-	-	-	-
AOC 8	SS-123(F2)-6	7/23/2007	5.5	6	soil	-	-	-	-	-	-	-
AOC 8	SS-123(F2)-11.5	7/23/2007	11	11.5	soil	-	-	-	-	-	-	-
AOC 8	SS-123(F2)-16.5	7/23/2007	16	16.5	soil	-	-	-	-	-	-	-
AOC 8	SS-123(F2)-21	7/24/2007	20.5	21	soil	-	-	-	-	-	-	-
AOC 8	SS-123(F3)-5.5	7/24/2007	5	5.5	soil	-	-	-	-	-	-	-
AOC 8	SS-123(F3)-10.5	7/24/2007	10	10.5	soil	-	-	-	-	-	-	-
AOC 8	SS-123(F3)-15.5	7/24/2007	15	15.5	soil	-	-	-	-	-	-	-
AOC 8	SS-123(F3)-20.5	7/24/2007	20	20.5	soil	-	-	-	-	-	-	-
AOC 8	SS-123(F3)-25.5	7/24/2007	25	25.5	soil	-	-	-	-	-	-	-
AOC 6	SED-1	7/13/2007	0	0.5	soil	-	-	-	-	-	-	-
AOC 6	SED-2	7/13/2007	0	0.5	soil	-	-	-	-	-	-	-
AOC 6	SED-3	7/13/2007	0	0.5	soil	-	-	-	-	-	-	-
AOC 6	SED-4	7/13/2007	0	0.5	soil	-	-	-	-	-	-	-
ESLs			Feb 2016 Tier 1 ESLs			23	-	-	-	75	-	-

Table 2B - Summary of Analytical Results of Petroleum Hydrocarbons and Associated Compounds Detected in Soil Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in micrograms per kilograms (ug/Kg))

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Fuel Oxygenates MTBE (ug/Kg)	TAME (ug/Kg)	DIPE (ug/Kg)	ETBE (ug/Kg)	TBA (ug/Kg)	Lead Scavengers EDB (ug/Kg)	EDC (ug/Kg)

Notes:

feet bgs = feet below ground surface

ug/Kg = micrograms per kilogram

MTBE = methyl tert-butyl ether

TAME = tert-amyl methyl ether (methyl tert-amyl ether)

DIPE = diisopropyl ether (isopropyl ether)

ETBE = ethyl tert-butyl ether

TBA = tert-butyl alcohol

EDB = 1,2-dibromoethane (ethylene dibromide)

EDC = 1,2-dichloroethane

"<" = not detected above the laboratory report given

"-" = sample not analyzed or ESL not established

Orange highlight indicates the reported quantity exceeds Tier 1 ESL

Green Highlight indicates reporting limit exceeds Tier 1 ESL

Table 7 - Summary of Analytical Results of CAM 17 Metals Detected in Soil Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per kilogram (mg/Kg))

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Total Metals (mg/Kg) Ag	As	Ba	Be	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Sb	Se	Tl	V	Zn
AOC 3	B-1(A)-4.5	7/17/2007	4	4.5	soil	<0.25	4.2	160	0.2	<0.25	10	40	28	0.026	0.59	60	8.8	<0.5	<0.5	<0.5	23	51
AOC 3	B-1(A)-9.5	7/17/2007	9	9.5	soil	<0.25	4.6	160	0.3	<0.25	13	56	26	0.023	0.41	85	8	<0.5	<0.5	<0.5	29	54
AOC 3	B-1(A)-35	7/17/2007	34.5	35	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 3	B-1(A)-36.5	7/17/2007	36	36.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(A)-5.5	7/17/2007	5	5.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(A)-10.5	7/17/2007	10	10.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(A)-15.5	7/17/2007	15	15.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(A)-20.5	7/17/2007	20	20.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(B)-5.5	7/16/2007	5	5.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(B)-10.5	7/16/2007	10	10.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(B)-15.5	7/16/2007	15	15.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(B)-20.5	7/16/2007	20	20.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(C)-5	7/16/2007	4.5	5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(C)-10.5	7/16/2007	10	10.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(C)-15.5	7/16/2007	15	15.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(C)-20.5	7/16/2007	20	20.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 3	EB-35(A)-3	7/17/2007	2.5	3	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 3	EB-35(A)-4	7/17/2007	3.5	4	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 3	EB-35(A)-9.5	7/17/2007	9	9.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 3	EB-35(B)-2.5	7/17/2007	2	2.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 3	EB-35(B)-5	7/17/2007	4.5	5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 3	EB-35(B)-9	7/17/2007	8.5	9	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 3	EB-35(C)-2.5	7/18/2007	2	2.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 3	EB-35(C)-5.5	7/18/2007	5	5.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 3	EB-35(C)-10.5	7/18/2007	10	10.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 3	EB-35(D)-2.5	7/18/2007	2	2.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 3	EB-35(D)-5.5	7/18/2007	5	5.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 3	EB-35(D)-9.5	7/18/2007	9	9.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(A)-5.5	7/18/2007	5	5.5	soil	<0.25	8.3	260	0.4	<0.25	9.8	27	35	0.13	<0.2	40	6.9	0.95	<0.5	<0.5	39	46
AOC 7	SS-31(A)-10.5	7/18/2007	10	10.5	soil	<0.25	5.5	170	0.5	<0.25	15	72	46	0.055	0.41	100	10	1.6	<0.5	<0.5	35	70
AOC 7	SS-31(A)-15.5	7/18/2007	15	15.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(A)-20.5	7/18/2007	20	20.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(A)-25.5	7/18/2007	25	25.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FEB 2016 TIER 1 ESLs					390	11	3000	42	39	23	120,000	3100	13	390	820	80	31	390	0.76	10	23,000

Table 7 - Summary of Analytical Results of CAM 17 Metals Detected in Soil Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per kilogram (mg/Kg))

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Total Metals (mg/Kg) Ag	As	Ba	Be	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Sb	Se	Tl	V	Zn
AOC 7	SS-31(A)-30.5	7/18/2007	30	30.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(A)-40.5	7/19/2007	40	40.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(A)-50.5	7/19/2007	50	50.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(A)-52.5	7/19/2007	52	52.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(A)-60.5	7/19/2007	60	60.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(A)-65.5	7/19/2007	65	65.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(B)-5.5	7/19/2007	5	5.5	soil	<0.25	6.6	180	0.4	<0.25	16	65	34	0.072	0.31	100	11	1.6	<0.5	<0.5	34	63
AOC 7	SS-31(B)-10.5	7/19/2007	10	10.5	soil	<0.25	5.6	150	0.4	<0.25	12	59	28	0.052	<0.2	90	8.2	1.8	<0.5	<0.5	32	53
AOC 7	SS-31(B)-15.5	7/19/2007	15	15.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(B)-20.5	7/19/2007	20	20.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(B)-25.5	7/19/2007	25	25.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(B)-30.5	7/19/2007	30	30.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(B)-40	7/19/2007	39.5	40	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(B)-50	7/19/2007	49.5	50	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(B)-60.5	7/19/2007	60	60.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(C)-5.5	7/20/2007	5	5.5	soil	<0.25	7.3	260	0.4	<0.25	8.2	22	18	0.089	<0.2	28	5.2	<0.5	<0.5	<0.5	35	38
AOC 7	SS-31(C)-10.5	7/20/2007	10	10.5	soil	<0.25	6.3	270	0.4	<0.25	12	44	25	0.091	<0.2	71	6.4	<0.5	<0.5	<0.5	36	45
AOC 7	SS-31(C)-15.5	7/20/2007	15	15.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(C)-19.5	7/20/2007	19	19.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(C)-25.5	7/20/2007	25	25.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(C)-30	7/20/2007	29.5	30	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(C)-40	7/20/2007	39.5	40	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(C)-51	7/20/2007	50.5	51	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(C)-60.5	7/20/2007	60	60.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(C)-67.5	7/20/2007	67	67.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(D)-5.5	7/20/2007	5	5.5	soil	<0.25	5	270	0.4	<0.25	9.7	39	22	0.058	<0.2	63	4.6	<0.5	<0.5	<0.5	30	38
AOC 7	SS-31(D)-10.5	7/20/2007	10	10.5	soil	<0.25	6	330	0.4	<0.25	11	38	25	0.087	<0.2	57	6.6	<0.5	<0.5	<0.5	36	45
AOC 7	SS-31(D)-15	7/20/2007	14.5	15	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(D)-19.5	7/20/2007	19	19.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(D)-25	7/23/2007	24.5	25	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(D)-30	7/23/2007	29.5	30	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(D)-40	7/23/2007	39.5	40	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(D)-50.5	7/23/2007	50	50.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(D)-60.5	7/23/2007	60	60.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 7 - Summary of Analytical Results of CAM 17 Metals Detected in Soil Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in millgrams per kilogram (mg/Kg))

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Total Metals (mg/Kg) Ag	As	Ba	Be	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Sb	Se	Tl	V	Zn
AOC 8	SS-123(AA)-5.5	7/24/2007	5	5.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(AA)-7.5	7/24/2007	7	7.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(AA)-10.5	7/24/2007	10	10.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(AA)-15.5	7/24/2007	15	15.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(AA)-18	7/24/2007	17.5	18	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F1)-5.5	7/23/2007	5	5.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F1)-15.5	7/23/2007	15	15.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F2)-6	7/23/2007	5.5	6	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F2)-11.5	7/23/2007	11	11.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F2)-16.5	7/23/2007	16	16.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F2)-21	7/24/2007	20.5	21	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F3)-5.5	7/24/2007	5	5.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F3)-10.5	7/24/2007	10	10.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F3)-15.5	7/24/2007	15	15.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F3)-20.5	7/24/2007	20	20.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F3)-25.5	7/24/2007	25	25.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 6	SED-1	7/13/2007	0	0.5	soil	<0.25	3.6	120	0.3	<0.25	9	43	23	0.04	0.26	64	5	<0.5	<0.5	<0.5	23	42
AOC 6	SED-2	7/13/2007	0	0.5	soil	<0.25	2.9	96	0.2	<0.25	7.5	37	20	0.053	0.41	55	5.6	<0.5	<0.5	<0.5	19	47
AOC 6	SED-3	7/13/2007	0	0.5	soil	<0.25	2.9	120	0.3	<0.25	8.6	44	32	0.065	0.58	67	8.5	<0.5	<0.5	<0.5	22	70
AOC 6	SED-4	7/13/2007	0	0.5	soil	<0.25	3.4	140	0.3	<0.25	10	49	33	0.051	0.33	76	7.6	0.57	<0.5	<0.5	25	59
ESLs		shallow soils (less than 10 feet bgs)				40	5.5	1,500	8	7.4	10	58	230	10	40	150	750	40	10	13	200	600
ESLs		deep soils (greater than 10 feeet bgs)				3,600	5.5	2,500	36	38	10	58	5,000	98	3,600	1,000	750	280	3,400	47	5,000	5,000

Table 7 - Summary of Analytical Results of
CAM 17 Metals Detected in Soil Samples
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in millgrams per kilogram (mg/Kg))

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Total Metals (mg/Kg) Ag	As	Ba	Be	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Sb	Se	Tl	V	Zn

Notes:

Ag = silver
As = arsenic
Ba = barium
Be = beryllium
Cd = cadmium
Co = cobalt
Cr = Chromium
Cu = Copper
Hg = Mercury
Mo = Molybdenum
Ni = Nickel
Pb = Lead
Sb = Antimony
Se = Selenium
Tl = Thallium
V = Vanadium
Zn = Zinc

feet bgs = feet below ground surface
mg/Kg = milligrams per kilogram
bold indicates that the compound was detected above the laboratory reporting limi
10 boxed values exceed the respective ESL.
"<" = not detected above the laboratory report given
"-" = sample not analyzed or ESL not established
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, February 2005, for Shallow or Deep Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL
Green Highlight indicates reporting limit exceeds Tier 1 ESL

Table 8A - Summary of Analytical Results of Petroleum Hydrocarbons and Associated Compounds Detected in Groundwater and Surface Water Samples
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per liter (ug/L))

Sample Location	Sample ID	Date Sampled	Approximate Sample Depth (feet bgs)	Matrix	Total Petroleum Hydrocarbons TPHd (ug/L)	TPHmo (ug/L)	TPHg (ug/L)	BTEX compounds B (ug/L)	T (ug/L)	E (ug/L)	m,p-X (ug/L)	o-X (ug/L)
AOC 3	B-1(A)-GGW	7/18/2007	~ 67.6	water	**79 HY**	**1,100 H**	<50	<0.5	<0.5	<0.5	<0.5	<0.5
AOC 2	EB-31(B)-GGW	7/16/2007	~ 64.8	water	<50	<300	<50	<0.5	<0.5	<0.5	<0.5	<0.5
AOC 7	SS-31(A)-GGW	7/19/2007	~ 65.2	water	<50	<300	<50	<0.5	<0.5	<0.5	<0.5	<0.5
AOC 7	SS-31(B)-GGW	7/20/2007	~ 66	water	<50	<300	<50	<0.5	<0.5	<0.5	<0.5	<0.5
AOC 7	SS-31(C)-GGW	7/20/2007	~ 66	water	<50	<300	<50	<0.5	<0.5	<0.5	<0.5	<0.5
AOC 7	SS-31(D)-GGW	7/23/2007	~ 66.8	water	<50	<300	<50	<0.5	<0.5	<0.5	<0.5	<0.5
AOC 8	SS-123(AA)-GGW	7/24/2007	~15.7	water	**340 HY**	**2,400 HL**	<50	<0.5	<0.5	<0.5	<0.5	<0.5
AOC 8	SS-123(F1)-GGW	7/23/2007	~ 20.8	water	<50	<300	<50	<0.5	<0.5	<0.5	<0.5	<0.5
AOC 8	SS-123(F2)-GGW	7/24/2007	~ 25.8	water	**990 HY**	**4,000 HL**	<50	<0.5	**2.2**	<0.5	<0.5	<0.5
AOC 8	SS-123(F3)-GGW	7/24/2007	~ 26.9	water	<50	<300	<50	<0.5	<0.5	<0.5	<0.5	<0.5
AOC 6	PW-2	7/13/2007	surface	water	<50	<300	<50	<0.5	<0.5	<0.5	<0.5	<0.5
ESLs					100	100	100	1	40	30	20	20
Notes:					Feb 2016 TIER 1 ESLs							
					100	-	100	1	40	13	20	20

feet bgs = feet below ground surface

ug/L = micrograms per liter

TPHd = total petroleum hydrocarbons as diesel

TPHmo = total petroleum hydrocarbons as motor oil

TPHg = total petroleum hydrocarbons as gasoline

BTEX = benzene, toluene, ethylbenzene, and total xylenes

B = benzene

T = toluene

E = ethylbenzene

m,p-X = m,p-xylenes

o-X = o-xylenes

bold indicates that the compound was detected above the laboratory reporting limit.

990 HY boxed values exceed the respective ESL.

H = heavier hydrocarbons contributed to the quantitation

Y = sample exhibits chromatographic pattern that does not resemble standard

L = lighter hydrocarbons contributed to the quantitation

"<" = not detected above the laboratory report given

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, February 2005, for Shallow or Deep Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL

Table 8B - Summary of Analytical Results of Petroleum Hydrocarbons and Associated Compounds Detected in Groundwater and Surface Water Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per liter (ug/L))

Sample Location	Sample ID	Date Sampled	Approximate Sample Depth (feet bgs)	Matrix	Fuel Oxygenates					Lead Scavengers	
					MTBE (ug/L)	TAME (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TBA (ug/L)	EDB (ug/L)	EDC (ug/L)
AOC 3	B-1(A)-GGW	7/18/2007	~ 67.6	water	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5
AOC 2	EB-31(B)-GGW	7/16/2007	~ 64.8	water	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5
AOC 7	SS-31(A)-GGW	7/19/2007	~ 65.2	water	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5
AOC 7	SS-31(B)-GGW	7/20/2007	~ 66	water	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5
AOC 7	SS-31(C)-GGW	7/20/2007	~ 66	water	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5
AOC 7	SS-31(D)-GGW	7/23/2007	~ 66.8	water	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5
AOC 8	SS-123(AA)-GGW	7/24/2007	~15.7	water	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5
AOC 8	SS-123(F1)-GGW	7/23/2007	~ 20.8	water	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5
AOC 8	SS-123(F2)-GGW	7/24/2007	~ 25.8	water	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5
AOC 8	SS-123(F3)-GGW	7/24/2007	~ 26.9	water	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5
AOC 6	PW-2	7/13/2007	surface	water	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5
ESLs					2	-	-	-	12	0.05	0.5
		Feb 2016 TIER 1 ESLs			5	-	-	-	12	-	-

Notes:

feet bgs = feet below ground surface

ug/L = micrograms per liter

MTBE = methyl tert-butyl ether

TAME = tert-amyl methyl ether (methyl tert-amyl ether)

DIPE = diisopropyl ether (isopropyl ether)

ETBE = ethyl tert-butyl ether

TBA = tert-butyl alcohol

EDB = 1,2-dibromoethane (ethylene dibromide)

EDC = 1,2-dichloroethane

"<" = not detected above the laboratory report given

"-" = ESL not established

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, February 2005, for Shallow or Deep Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Table 9 - Summary of Analytical Results of
Volatile Organic Compounds Detected in Groundwater and Surface-Water Samples
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per liter (ug/L))

Sample Location	Sample ID	Date Sampled	Approximate Sample Depth (feet bgs)	Matrix	Volatile Organic Compounds *					
					Acetone (ug/L)	Carbon Disulfide (ug/L)	para-Isopropyl Toluene (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	1,2,4-Trimethylbenzene (ug/L)
AOC 3	B-1(A)-GGW	7/18/2007	~ 67.6	water	10	<0.5	<0.5	<2	<0.5	<0.5
AOC 2	EB-31(B)-GGW	7/16/2007	~ 64.8	water	<10	<0.5	<0.5	<2	<0.5	<0.5
AOC 7	SS-31(A)-GGW	7/19/2007	~ 65.2	water	<10	<0.5	<0.5	<2	<0.5	<0.5
AOC 7	SS-31(B)-GGW	7/20/2007	~ 66	water	<10	<0.5	<0.5	<2	<0.5	<0.5
AOC 7	SS-31(C)-GGW	7/20/2007	~ 66	water	<10	<0.5	<0.5	<2	<0.5	<0.5
AOC 7	SS-31(D)-GGW	7/23/2007	~ 66.8	water	<10	<0.5	<0.5	<2	<0.5	<0.5
AOC 8	SS-123(AA)-GGW	7/24/2007	~15.7	water	<10	<0.5	<0.5	<2	<0.5	<0.5
AOC 8	SS-123(F1)-GGW	7/23/2007	~ 20.8	water	<10	<0.5	<0.5	<2	<0.5	<0.5
AOC 8	SS-123(F2)-GGW	7/24/2007	~ 25.8	water	<10	**0.5**	**0.7**	4.6	**2.2**	**0.7**
AOC 8	SS-123(F3)-GGW	7/24/2007	~ 26.9	water	<10	<0.5	<0.5	<2	<0.5	<0.5
AOC 6	PW-2	7/13/2007	surface	water	<10	<0.5	<0.5	<2	<0.5	<0.5
ESLs					1,500	-	-	17	40	-
Notes:		Feb 2016 TIER 1 ESLs			1500	-	-	0.17	40	-

***** No other VOCs were detected above their respective laboratory limits in these samples.

feet bgs = feet below ground surface

ug/L = micrograms per liter

bold indicates that the compound was detected above the laboratory reporting limit.

"<" = not detected above the laboratory report given

"-" = ESL not established

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, February 2005, for Shallow or Deep Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL

Green Highlight indicates reporting limit exceeds Tier 1 ESL

Table 10 - Summary of Analytical Results of CAM17 Metals Detected in Groundwater and Surface-Water Sample Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in micrograms per liter (ug/L))

Sample Location	Sample ID	Date Sampled	Approximate Sample Depth (feet bgs)	Matrix	Dissolved Metals (ug/L)																
					Ag	As	Ba	Be	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Sb	Se	Tl	V	Zn
AOC 3	B-1(A)-GGW	7/18/2007	~ 67.6	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(B)-GGW	7/16/2007	~ 64.8	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(A)-GGW	7/19/2007	~ 65.2	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(B)-GGW	7/20/2007	~ 66	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(C)-GGW	7/20/2007	~ 66	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(D)-GGW	7/23/2007	~ 66.8	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(AA)-GGW	7/24/2007	~15.7	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F1)-GGW	7/23/2007	~ 20.8	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F2)-GGW	7/24/2007	~ 25.8	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F3)-GGW	7/24/2007	~ 26.9	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AOC 6	PW-2	7/13/2007	surface	filtrate	<5	5.5	170	<2	<5	<5	<5	<5	<0.2	<5	6	<3	<10	<10	<10	<5	24
ESLs					0.19	36	1,000	2.7	1.1	3	50	3.1	0.012	35	8.2	2.5	6	5	2	15	81
		Feb 2016 TIER 1 ESLs			0.19	10	1000	2.7	0.25	3	180	3.1	0.051	100	8.2	2.5	6	5	2	19	81

Notes:

feet bgs = feet below ground surface

ug/L = micrograms per liter

"-" = sample not analyzed

"<" = not detected above the laboratory report given

bold indicates that the compound was detected above the laboratory reporting limit.

Ag = Silver
As = Arsenic
Ba = Barium
Be = Beryllium
Cd = Cadmium
Co = Cobalt
Cr = Chromium
Cu = Copper
Hg = Mercury
Mo = Molybdenum
Ni = Nickel
Pb = Lead
Sb = Antimony
Se = Selenium
Tl = Thallium
V = Vanadium
Zn = Zinc

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, February 2005, for Shallow or Deep Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL

Green Highlight indicates reporting limit exceeds Tier 1 ESL

Table 11A - Summary of Analytical Results of Petroleum Hydrocarbons and Associated Compounds Detected in Samples from Groundwater Monitoring Wells Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per liter (ug/L))

Sample Location	Sample ID	Date Sampled	Approximate Sample Depth (feet bgs)	Matrix	Total Petroleum Hydrocarbons			BTEX compounds				
					TPHd (ug/L)	TPHmo (ug/L)	TPHg (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	m,p-X (ug/L)	o-X (ug/L)
3S/1E 14D1	TW-5	7/12/2007	~ 50	water	<50	<300	<50	<0.5	<0.5	<0.5	<0.5	<0.5
3S/1E 10D8	3S/1E 10D8	7/25/2007	~ 200	water	<50	<300	<50	<0.5	<0.5	<0.5	<0.5	<0.5
3S/1E 10K2	3S/1E 10K2	7/25/2007	~ 300	water	<50	<300	<50	<0.5	<0.5	<0.5	<0.5	<0.5
3S/1E 10K2	MW-10	7/25/2007	~ 300	water	<50	<300	<50	<0.5	<0.5	<0.5	<0.5	<0.5
3S/1E 10N3	3S/1E 10N3	7/25/2007	~ 180	water	<50	<300	<50	<0.5	<0.5	<0.5	<0.5	<0.5
Trip Blank	TB-072507	7/25/2007	na	water	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5
ESLs					100	100	100	1	40	30	20	20
		Feb 2016 TIER 1 ESLs			100	-	100	1	40	13	20	20

Notes:

feet bgs = feet below ground surface

ug/L = micrograms per liter

MW-10 = blind duplicate of 3S/1E 10K2

TPHd = total petroleum hydrocarbons as diesel

TPHmo = total petroleum hydrocarbons as motor oil

TPHg = total petroleum hydrocarbons as gasoline

BTEX = benzene, toluene, ethylbenzene, and total xylenes

B = benzene

T = toluene

E = ethylbenzene

m,p-X = m,p-xylenes

o-X = o-xylenes

"<" = not detected above the laboratory report given

"-" = sample not analyzed or ESL not established

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, February 2005, for Shallow or Deep Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Table11B - Summary of Analytical Results of Petroleum Hydrocarbons and Associated Compounds Detected in Samples from Groundwater Monitoring Wells Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per liter (ug/L))

Sample Location	Sample ID	Date Sampled	Approximate Sample Depth (feet bgs)	Matrix	Fuel Oxygenates					Lead Scavengers	
					MTBE (ug/L)	TAME (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TBA (ug/L)	EDB (ug/L)	EDC (ug/L)
3S/1E 14D1	TW-5	7/12/2007	~ 50	water	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5
3S/1E 10D8	3S/1E 10D8	7/25/2007	~ 200	water	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5
3S/1E 10K2	3S/1E 10K2	7/25/2007	~ 300	water	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5
3S/1E 10K2	MW-10	7/25/2007	~ 300	water	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5
3S/1E 10N3	3S/1E 10N3	7/25/2007	~ 180	water	<0.5	<0.5	<0.5	<0.5	<10	<0.5	<0.5
Trip Blank	TB-072507	7/25/2007	na	water	<0.5	-	-	-	-	<0.5	<0.5
ESLs					5	-	-	-	12	0.05	0.5
		Feb 2016 TIER 1 ESLs			5	–	–	–	12	–	–

Notes:

feet bgs = feet below ground surface

ug/L = micrograms per liter

MW-10 = blind duplicate of 3S/1E 10K2

MTBE = methyl tert-butyl ether

TAME = tert-amyl methyl ether (methyl tert-amyl ether)

DIPE = diisopropyl ether (isopropyl ether)

ETBE = ethyl tert-butyl ether

TBA = tert-butyl alcohol

EDB = ethylene dibromide (1,2-dibromoethane)

EDC = 1,2-dichloroethane

"<" = not detected above the laboratory report given

"-" = sample not analyzed or ESL not established

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, February 2005, for Shallow or Deep Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Table 12 - Summary of Analytical Results of Volatile Organic Compounds Detected in Samples from Groundwater Monitoring Wells Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per liter (ug/L))

Sample Location	Sample ID	Date Sampled	Approximate Sample Depth (feet bgs)	Matrix	Volatile Organic Compounds * Bromomethane (ug/L)
3S/1E 14D1	TW-5	7/12/2007	~ 50	water	< 1
3S/1E 10D8	3S/1E 10D8	7/25/2007	~ 200	water	< 1
3S/1E 10K2	3S/1E 10K2	7/25/2007	~ 300	water	< 1
3S/1E 10K2	MW-10	7/25/2007	~ 300	water	< 1
3S/1E 10N3	3S/1E 10N3	7/25/2007	~ 180	water	< 1
Trip Blank	TB-072507	7/25/2007	na	water	**0.6 J**
ESLs					9.8

2016 7.5

Notes:

feet bgs = feet below ground surface

ug/L = micrograms per liter

MW-10 = blind duplicate of 3S/1E 10K2

* No other VOCs were detected above their respective laboratory limits in these samples.

VOCs = volatile organic compounds

bold indicates that the compound was detected above the laboratory reporting limit.

"<" = not detected above the laboratory report given

"J" = estimated value below the laboratory reporting limit

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, February 2005, for Shallow or Deep Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Table 13 - Summary of Analytical Results of Semivolatile Organic Compounds Detected in Samples from Groundwater Monitoring Wells Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per liter (ug/L))

Sample Location	Sample ID	Date Sampled	Approximate Sample Depth (feet bgs)	Matrix	Semi-Volatile Organic Compounds * bis(2-Ethylhexyl)phthalate (ug/L)
3S/1E 14D1	TW-5	7/12/2007	~ 50	water	<9.4
3S/1E 10D8	3S/1E 10D8	7/25/2007	~ 200	water	25
3S/1E 10K2	3S/1E 10K2	7/25/2007	~ 300	water	<9.4
3S/1E 10K2	MW-10	7/25/2007	~ 300	water	<9.4
3S/1E 10N3	3S/1E 10N3	7/25/2007	~ 180	water	<9.4
Trip Blank	TB-072507	7/25/2007	na	water	-
ESLs					4

Notes:

2014 4

feet bgs = feet below ground surface

ug/L = micrograms per liter

MW-10 = blind duplicate of 3S/1E 10K2

* No other SVOCs were detected above their respective laboratory limits in these samples.

SVOCs = semivolatile organic compounds

bold indicates that the compound was detected above the laboratory reporting limit.

25 boxed values exceed the respective ESL.

"<" = not detected above the laboratory report given

"-" = sample not analyzed

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, February 2005, for Shallow or Deep Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL

Green Highlight indicates reporting limit exceeds Tier 1 ESL

Table 14 - Summary of Analytical Results of
CAM 17 Metals Detected in Samples from Groundwater Monitoring Wells
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in micrograms per liter (ug/L))

Sample Location	Sample ID	Date Sampled	Approximate Sample Depth (feet bgs)	Matrix	Dissolved Metals (ug/L)																
					Ag	As	Ba	Be	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Sb	Se	Tl	V	Zn
3S/1E 14D1	TW-5	7/12/2007	~ 50	filtrate	<5	<5	280	<2	<5	<5	<5	<5	<0.2	<5	<5	<3	<10	<10	<10	<5	30
3S/1E 10D8	3S/1E 10D8	7/25/2007	~ 200	filtrate	<1	1.2	370	<1	<1	<1	6.3	<1	0.63	1.2	1.3	<1	<1	<1	<1	3.4	8
3S/1E 10K2	3S/1E 10K2	7/25/2007	~ 300	filtrate	<1	<1	230	<1	<1	<1	7.6	<1	<0.2	<1	<1	<1	<1	<1	<1	1.5	<5
3S/1E 10K2	MW-10	7/25/2007	~ 300	filtrate	<1	<1	230	<1	<1	<1	7.8	<1	<0.2	<1	<1	<1	<1	<1	<1	1.6	<5
3S/1E 10N3	3S/1E 10N3	7/25/2007	~ 180	filtrate	<1	<1	260	<1	<1	<1	2.6	<1	<0.2	<1	<1	<1	<1	<1	<1	1.4	<5
Trip Blank	TB-072507	7/25/2007	na	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ESLs					0.19	36	1,000	2.7	1.1	3	50	3.1	0.012	35	8.2	2.5	6	5	2	15	81
		Feb 2016 TIER 1 ESLs			0.19	10	1000	2.7	0.25	3	180	3.1	0.051	100	8.2	2.5	6	5	2	19	81

Notes:

feet bgs = feet below ground surface

ug/L = micrograms per liter

MW-10 = blind duplicate of 3S/1E 10K2

"<" = not detected above the laboratory report given

"-" = sample not analyzed

bold indicates that the compound was detected above the laboratory reporting limit.

0.63 boxed values exceed the respective ESL.

Ag = Silver
As = Arsenic
Ba = Barium
Be = Beryllium
Cd = Cadmium
Co = Cobalt
Cr = Chromium
Cu = Copper
Hg = Mercury
Mo = Molybdenum
Ni = Nickel
Pb = Lead
Sb = Antimony
Se = Selenium
Tl = Thallium
V = Vanadium
Zn = Zinc

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, February 2005, for Shallow or Deep Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL
Green Highlight indicates reporting limit exceeds Tier 1 ESL

Table 1
Sample Matrix for Samples Collected During October 2007
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample Location	Sample ID	Date Sampled	Approximate Sample Interval top (feet bgs)	bottom (feet bgs)	Matrix	TPHd / TPHmo	TPHg	VOCs	BTEX	Fuel Ox	Lead Scav	SVOCs	Pest	PCBs	Metals [1]	SPLP TPHd/ TPHmo	SPLP Metals [1]
Depth-Discrete Soil Samples from Temporary Soil Borings																	
Deep Soil Contamination																	
	B25-9	10/8/2007	8.5	9	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B25-12	10/8/2007	11.5	12	soil	-	-	-	-	-	-	-	-	-	-	-	-
	B25-16	10/8/2007	15.5	16	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B25-21	10/8/2007	20.5	21	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B25-26.5	10/8/2007	26	26.5	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B25-31	10/8/2007	30.5	31	soil	x	x	-	x	x	x	x	-	x	x	x	x
	B25-35.5	10/8/2007	35	35.5	soil	x	x	-	x	x	x	x	-	x	x	x	x
	B25-36	10/8/2007	35.5	36	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B25-47	10/8/2007	46.5	47	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B25A-34.5	10/8/2007	34	34.5	soil	x	x	-	x	x	x	x	-	x	x	x	x
	B25A-35	10/8/2007	34.5	35	soil	-	-	-	-	-	-	-	-	-	-	-	-
	B26-6	10/9/2007	5.5	6	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B26-16.5	10/9/2007	16	16.5	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B26-22.5	10/9/2007	22	22.5	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B26-28	10/9/2007	27.5	28	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B26-32	10/9/2007	31.5	32	soil	x	x	-	x	x	x	x	-	x	x	x	x
	B26-33.5	10/9/2007	33	33.5	soil	x	x	-	x	x	x	x	-	x	x	x	x
	B26-38	10/9/2007	37.5	38	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B26-42.5	10/9/2007	42	42.5	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B26-47	10/9/2007	46.5	47	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B27-7	10/9/2007	6.5	7	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B27-16	10/9/2007	15.5	16	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B27-22	10/9/2007	21.5	22	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B27-27.5	10/9/2007	27	27.5	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B27-32	10/9/2007	31.5	32	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B27-37.5	10/9/2007	37	37.5	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B27-42	10/9/2007	41	41.5	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B27-46.5	10/9/2007	46	46.5	soil	x	x	-	x	x	x	-	-	-	-	-	-
South of Former Hot Mix Asphalt Plant																	
	B28-5	10/4/2007	4.5	5	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B28-8	10/4/2007	7.5	8	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B28-13	10/4/2007	12.5	13	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B28-18	10/4/2007	17.5	18	soil	x	x	-	x	x	x	-	-	-	-	-	-

Table 1
Sample Matrix for Samples Collected During October 2007
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample Location	Sample ID	Date Sampled	Approximate Sample Interval top (feet bgs)	bottom (feet bgs)	Matrix	TPHd / TPHmo	TPHg	VOCs	BTEX	Fuel Ox	Lead Scav	SVOCs	Pest	PCBs	Metals [1]	SPLP TPHd/ TPHmo	SPLP Metals [1]
	B28-22.5	10/4/2007	22	22.5	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B28-27.5	10/4/2007	27	27.5	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B28-37	10/4/2007	36.5	37	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B28-47.5	10/4/2007	47	47.5	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B28-59	10/4/2007	58.5	59	soil	-	-	-	-	-	-	-	-	-	-	-	-
	B29-5	10/5/2007	4.5	5	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B29-6	10/5/2007	5.5	6	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B29-11	10/5/2007	10.5	11	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B29-16	10/5/2007	15.5	16	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B29-23	10/5/2007	22.5	23	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B29-27	10/5/2007	26.5	27	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B29-33	10/5/2007	32.5	33	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B29-37	10/5/2007	36.5	37	soil	-	-	-	-	-	-	-	-	-	-	-	-
	B29-43	10/5/2007	42.5	43	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B29-48	10/5/2007	47.5	48	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B29-57.5	10/5/2007	57	57.5	soil	-	-	-	-	-	-	-	-	-	-	-	-
	B30-5	10/4/2007	4.5	5	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B30-8	10/4/2007	7.5	8	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B30-15	10/4/2007	14.5	15	soil	x	x	-	x	x	x	-	-	-	-	-	-
	B30-17.5	10/4/2007	17	17.5	soil	x	x	-	x	x	x	-	-	-	-	-	-
West of Former Hot Mix Asphalt Plant																	
	B31-5	10/5/2007	4.5	5	soil	x	-	-	-	-	-	-	-	-	-	-	-
	B31-8.5	10/5/2007	8	8.5	soil	x	-	-	-	-	-	-	-	-	-	-	-
	B31-12	10/5/2007	11.5	12	soil	x	-	-	-	-	-	-	-	-	-	-	-
	B31-16.5	10/5/2007	15.5	16	soil	x	-	-	-	-	-	-	-	-	-	-	-
	B31-22	10/5/2007	21.5	22	soil	x	-	-	-	-	-	-	-	-	-	-	-
	B32-5	10/9/2007	4.5	5	soil	x	-	-	-	-	-	-	-	-	-	-	-
	B32-7.5	10/9/2007	7	7.5	soil	x	-	-	-	-	-	-	-	-	-	-	-
	B32-15.5	10/9/2007	15	15.5	soil	x	-	-	-	-	-	-	-	-	-	-	-
	B32-17	10/9/2007	16.5	17	soil	x	-	-	-	-	-	-	-	-	-	-	-
	B32-22	10/9/2007	21.5	22	soil	x	-	-	-	-	-	-	-	-	-	-	-
	B33-5	10/8/2007	4.5	5	soil	x	-	-	-	-	-	-	-	-	-	-	-

Table 1
Sample Matrix for Samples Collected During October 2007
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample Location	Sample ID	Date Sampled	Approximate Sample Interval top (feet bgs)	bottom (feet bgs)	Matrix	TPHd / TPHmo	TPHg	VOCs	BTEX	Fuel Ox	Lead Scav	SVOCs	Pest	PCBs	Metals [1]	SPLP TPHd/ TPHmo	SPLP Metals [1]
	B33-6.5	10/8/2007	6	6.5	soil	x	-	-	-	-	-	-	-	-	-	-	-
	B33-12.5	10/8/2007	12	12.5	soil	x	-	-	-	-	-	-	-	-	-	-	-
	B33-18	10/8/2007	17.5	18	soil	x	-	-	-	-	-	-	-	-	-	-	-
	B33-22	10/8/2007	21.5	22	soil	x	-	-	-	-	-	-	-	-	-	-	-
West of Former Spray Rack Area																	
	B34-5	10/10/2007	4.5	5	soil	x	-	-	-	-	-	-	-	-	-	-	-
	B34-7	10/10/2007	6.5	7	soil	x	-	-	-	-	-	-	-	-	-	-	-
	B34-11.5	10/10/2007	11	11.5	soil	x	-	-	-	-	-	-	-	-	-	-	-
	B35-5	10/10/2007	4.5	5	soil	x	-	-	-	-	-	-	-	-	-	-	-
	B35-10.5	10/10/2007	10	10.5	soil	x	-	-	-	-	-	-	-	-	-	-	-
Grab Groundwater Samples from Temporary Soil Borings																	
Deep Soil Contamination																	
	B-25-GGW	10/8/2007	61	64	water	x	x	x	x	x	x	x	x	x	x	-	-
	B-26-GGW	10/9/2007	50	53	water	x	x	x	x	x	x	x	x	x	x	-	-
	B-27-GGW	10/9/2007	50	53	water	x	x	x	x	x	x	x	x	x	x	-	-
South of Former Hot Mix Asphalt Plant																	
	B-28-GGW	10/4/2007	47.5	50.5	water	x	x	x	x	x	x	-	-	-	-	-	-
	B-29-GGW	10/5/2007	56	59	water	x	x	x	x	x	x	-	-	-	-	-	-
Miscellaneous Samples																	
Product Material from Paving Oil Containment Structure																	
	OIL-FP	10/8/2007	grab	grab	product [2]	x	x	x	x	x	x	x	x	x	x	-	-
Soil Borings for Groundwater Monitoring Wells [3]																	
	MW-3-35	10/4/2007	34.5	35	soil	-	-	-	-	-	-	-	-	-	-	-	-
	MW-4-GGW	10/5/2007	36	40	water	x	x	x	x	x	x	-	-	-	-	-	-
	MW-5A-GGW	10/8/2007	65.8	69	water	x	x	x	x	x	x	-	-	-	-	-	-
Groundwater Monitoring Wells																	
	MW-1-102207	10/22/2007	45	60	water	x	x	x	x	x	x	-	-	-	-	-	-
	MW-2-102207	10/22/2007	45	60	water	x	x	x	x	x	x	-	-	-	-	-	-
	MW-3-102207	10/22/2007	45	60	water	x	x	x	x	x	x	-	-	-	-	-	-
	MW-3-102207-D	10/22/2007	45	60	water	x	x	x	x	x	x	-	-	-	-	-	-
	MW-4-102207	10/22/2007	43	48	water	-	-	-	-	-	-	-	-	-	-	-	-
	MW-5-102207	10/22/2007	69	74	water	x	x	x	x	x	x	-	-	-	-	-	-
	MW-6-102207	10/22/2007	45	55	water	x	x	x	x	x	x	-	-	-	-	-	-
	MW-7-102207	10/22/2007	50	65	water	x	x	x	x	x	x	-	-	-	-	-	-

Table 1
Sample Matrix for Samples Collected During October 2007
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample Location	Sample ID	Date Sampled	Approximate Sample Interval top (feet bgs)	bottom (feet bgs)	Matrix	TPHd / TPHmo	TPHg	VOCs	BTEX	Fuel Ox	Lead Scav	SVOCs	Pest	PCBs	Metals [1]	SPLP TPHd/ TPHmo	SPLP Metals [1]
Quality Assurance and Quality Control Samples [4]																	
	TB-100407	10/4/2007	na	na	water	-	-	x	-	-	-	-	-	-	-	-	-
	TB-100507	10/5/2007	na	na	water	-	-	x	-	-	-	-	-	-	-	-	-
	TB-100807	10/8/2007	na	na	water	-	-	x	-	-	-	-	-	-	-	-	-
	TB-100907	10/9/2007	na	na	water	-	-	x	-	-	-	-	-	-	-	-	-
	TB-101007	10/10/2007	na	na	water	-	-	x	-	-	-	-	-	-	-	-	-
	TB-102207	10/22/2007	na	na	water	-	-	x	-	-	-	-	-	-	-	-	-
	FB-102207	10/22/2007	na	na	water	x	x	x	x	x	x	-	-	-	-	-	-

Notes:
feet bgs = feet below ground surface
"x" = analyzed
"-" = not analyzed
na = not applicable
x box indicates that at least one compound was detected at a concentration above the ESL.
[1] LUFT5 metals and arsenic were analyzed in soil samples; CAM17 metals were analyzed in groundwater samples and in the product sample.
[2] A grab sample was collected from the petroleum product material found in the former paving oil containment structure remaining at the Site. The sample was analyzed as a soil by the laboratory.
[3] Depth-discrete soil and grab groundwater samples were collected during drilling from selected boreholes for the new groundwater monitoring wells.
[4] Trip blank (TB) and field blank (FB) samples were collected on days that groundwater samples were collected for VOC analyses.
TPHd = total petroleum hydrocarbons as diesel by EPA Method 8015 (after silica gel cleanup)
TPHmo = total petroleum hydrocarbons as motor oil by EPA Method 8015 (after silica gel cleanup)
TPHg = total petroleum hydrocarbons as gasoline by EPA Method 8015 (soil) and 8260 (water)
VOCs = volatile organic compounds by EPA Method 8260
BTEX = benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260
Fuel Ox = fuel oxygenates by EPA Method 8260
Lead Scav = lead scavengers by EPA Method 8260
SVOCs = semi-volatile organic compounds by EPA Method 8270
Pest = organochlorine pesticides by EPA Method 8081
PCBs = polychlorinated biphenyls by EPA Method 8082
Metals = LUFT 5 metals and arsenic in soil samples, CAM 17 metals in groundwater samples and in the product sample (EPA 6010B)
SPLP = synthetic precipitation leaching procedure
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Shallow or Deep Soils, or for Groundwater, beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Table 2
Groundwater Monitoring Well Construction Details
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Monitoring Well ID	Installation Date	Boring Hole Diameter (inches)	Casing Diameter (inches)	Approximate Total Well Depth (feet bgs)	Approximate Screened Interval (feet bgs)	Top of Casing Elevation[1] (feet msl)	Depth to Groundwater Measured on 10/22/07 (feet TOC)	Groundwater Elevation Measured on 10/22/07 (feet msl)
MW-1	10/3/07	8.0	2.0	60	45 - 60	374.67	57.22	317.45
MW-2	10/2/07	8.0	2.0	60	45 - 60	376.33	55.24	321.09
MW-3	10/4/07	8.0	2.0	60	45 - 60	374.95	54.32	320.63
MW-4	10/5/07	8.0	2.0	48	43 - 48	372.94	47.37	325.57
MW-5	10/9/07	8.0	2.0	74	69 - 74	374.35	68.40	305.95
MW-6	10/10/07	8.0	2.0	55	45 - 55	375.03	49.19	325.84
MW-7	10/1/07	8.0	2.0	65	50 - 65	377.68	57.04	320.64

Notes:
ID = identification; monitoring well identification number
feet bgs = feet below ground surface
feet msl = feet relative to mean sea level
feet TOC = feet below top of casing
[1] Top of casing elevation and land survey conducted by Kim & Wright Civil Engineers & Surveyors, Inc.

AOC 1

Table 3
Petroleum Hydrocarbons and Associated Compounds Detected in Soil Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per kilogram [mg/kg] or micrograms per kilogram [ug/kg], as noted)

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Total Petroleum Hydrocarbons TPHd (mg/kg)	TPHmo (mg/kg)	TPHg (mg/kg)	BTEX compounds B (ug/kg)	T (ug/kg)	E (ug/kg)	m,p-X (ug/kg)	o-X (ug/kg)	Fuel Oxygenates MTBE (ug/kg)	TAME (ug/kg)	DIPE (ug/kg)	ETBE (ug/kg)	TBA (ug/kg)	Lead Scavengers EDB (ug/kg)	EDC (ug/kg)
Depth-Discrete Soil Samples from Temporary Soil Borings																				
Deep Soil Contamination																				
	B25-9	10/8/2007	8.5	9	soil	< 1	< 5	< 0.98	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 96	< 4.8	< 4.8
	B25-12	10/8/2007	11.5	12	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B25-16	10/8/2007	15.5	16	soil	< 0.99	< 5	< 0.98	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 91	< 4.5	< 4.5
	B25-21	10/8/2007	20.5	21	soil	< 1	< 5	< 1.1	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 100	< 5	< 5
	B25-26.5	10/8/2007	26	26.5	soil	< 1	< 5	< 0.97	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 93	< 4.6	< 4.6
	B25-31	10/8/2007	30.5	31	soil	< 1	< 5	< 0.98	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 91	< 4.5	< 4.5
	B25-35.5	10/8/2007	35	35.5	soil	930 Y	1,600	< 0.94	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 93	< 4.6	< 4.6
	B25-36	10/8/2007	35.5	36	soil	< 0.99	< 5	< 1	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 93	< 4.6	< 4.6
	B25-47	10/8/2007	46.5	47	soil	< 0.99	< 5	< 0.97	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 96	< 4.8	< 4.8
	B25A-34.5	10/8/2007	34	34.5	soil	3,600	3,200	140 Y	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 500	< 25	< 25
	B25A-35	10/8/2007	34.5	35	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B26-6	10/9/2007	5.5	6	soil	2.2 Y	15	< 1	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 91	< 4.5	< 4.5
	B26-16.5	10/9/2007	16	16.5	soil	< 1	< 5	< 0.99	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 96	< 4.8	< 4.8
	B26-22.5	10/9/2007	22	22.5	soil	< 0.99	< 5	< 1	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 94	< 4.7	< 4.7
	B26-28	10/9/2007	27.5	28	soil	2,500 Y	6,000	< 0.97	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 98	< 4.9	< 4.9
	B26-32	10/9/2007	31.5	32	soil	5,700	6,000	35 Y	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 500	< 25	< 25
	B26-33.5	10/9/2007	33	33.5	soil	3.5 Y	< 5	< 1	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 93	< 4.6	< 4.6
	B26-38	10/9/2007	37.5	38	soil	< 0.99	< 5	< 0.97	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 91	< 4.5	< 4.5
	B26-42.5	10/9/2007	42	42.5	soil	< 1	< 5	< 0.97	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 100	< 5	< 5
	B26-47	10/9/2007	46.5	47	soil	< 1	< 5	< 0.96	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 91	< 4.5	< 4.5
	B27-7	10/9/2007	6.5	7	soil	< 0.99	< 5	< 0.95	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 96	< 4.8	< 4.8
	B27-16	10/9/2007	15.5	16	soil	< 0.99	< 5	< 1	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 91	< 4.5	< 4.5
	B27-22	10/9/2007	21.5	22	soil	< 1	< 5	< 1.1	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 98	< 4.9	< 4.9
	B27-27.5	10/9/2007	27	27.5	soil	< 1	< 5	< 0.93	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 100	< 5	< 5
	B27-32	10/9/2007	31.5	32	soil	1.4 Y	7.5	< 0.95	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 91	< 4.5	< 4.5
	B27-37.5	10/9/2007	37	37.5	soil	< 1	< 5	< 0.98	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 96	< 4.8	< 4.8
	B27-42	10/9/2007	41	41.5	soil	< 0.99	< 5	< 1	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 94	< 4.7	< 4.7
	B27-46.5	10/9/2007	46	46.5	soil	< 1	< 5	< 0.93	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 94	< 4.7	< 4.7
South of Former Hot Mix Asphalt Plant																				
	B28-5	10/4/2007	4.5	5	soil	1.3 Y	14	< 1	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 96	< 4.8	< 4.8
	B28-8	10/4/2007	7.5	8	soil	2.3 Y	13	< 0.94	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 93	< 4.6	< 4.6
	B28-13	10/4/2007	12.5	13	soil	2.7 Y	13	< 0.99	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 91	< 4.5	< 4.5
	B28-18	10/4/2007	17.5	18	soil	<1	<5	< 1	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 93	< 4.6	< 4.6
	B28-22.5	10/4/2007	22	22.5	soil	<1	<5	< 0.99	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 98	< 4.9	< 4.9
	B28-27.5	10/4/2007	27	27.5	soil	<1	<5	< 0.99	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 89	< 4.5	< 4.5
	B28-37	10/4/2007	36.5	37	soil	< 1	< 5	< 0.94	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 94	< 4.7	< 4.7
	B28-47.5	10/4/2007	47	47.5	soil	< 1	< 5	< 0.98	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 100	< 5	< 5
	B28-59	10/4/2007	58.5	59	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B29-5	10/5/2007	4.5	5	soil	48 Y	160	< 0.99	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 94	< 4.7	< 4.7
	B29-6	10/5/2007	5.5	6	soil	26 Y	120	< 0.97	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 4.6	< 93	< 4.6	< 4.6
2016 TIER 1 ESLs						230	5100	100	44	2900	1400	2300	2300	23	-	-	-	75	-	-

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Table 3
Petroleum Hydrocarbons and Associated Compounds Detected in Soil Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per kilogram [mg/kg] or micrograms per kilogram [ug/kg], as noted)

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Total Petroleum Hydrocarbons TPHd (mg/kg)	TPHmo (mg/kg)	TPHg (mg/kg)	BTEX compounds B (ug/kg)	T (ug/kg)	E (ug/kg)	m,p-X (ug/kg)	o-X (ug/kg)	Fuel Oxygenates MTBE (ug/kg)	TAME (ug/kg)	DIPE (ug/kg)	ETBE (ug/kg)	TBA (ug/kg)	Lead Scavengers EDB (ug/kg)	EDC (ug/kg)
	B29-11	10/5/2007	10.5	11	soil	74 Y	140	< 0.94	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 100	< 5	< 5
	B29-16	10/5/2007	15.5	16	soil	17 Y	15	< 1	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 4.9	< 98	< 4.9	< 4.9
	B29-23	10/5/2007	22.5	23	soil	47 Y	50	< 0.98	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 94	< 4.7	< 4.7
	B29-27	10/5/2007	26.5	27	soil	83 Y	63	< 0.95	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 96	< 4.8	< 4.8
	B29-33	10/5/2007	32.5	33	soil	63 Y	39	< 1	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 96	< 4.8	< 4.8
	B29-37	10/5/2007	36.5	37	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B29-43	10/5/2007	42.5	43	soil	1,200	120	20 Y	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 96	< 4.8	< 4.8
	B29-48	10/5/2007	47.5	48	soil	< 0.99	< 5	< 0.99	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 91	< 4.5	< 4.5
	B29-57.5	10/5/2007	57	57.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B30-5	10/4/2007	4.5	5	soil	2.8 Y	13	< 0.97	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 94	< 4.7	< 4.7
	B30-8	10/4/2007	7.5	8	soil	8.6 Y	65	< 1	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 4.8	< 96	< 4.8	< 4.8
	B30-15	10/4/2007	14.5	15	soil	< 1	< 5	< 0.97	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 4.7	< 94	< 4.7	< 4.7
	B30-17.5	10/4/2007	17	17.5	soil	< 1	< 5	< 0.97	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 4.5	< 89	< 4.5	< 4.5
West of Former Hot Mix Asphalt Plant																				
	B31-5	10/5/2007	4.5	5	soil	50 Y	250	-	-	-	-	-	-	-	-	-	-	-	-	-
	B31-8.5	10/5/2007	8	8.5	soil	23	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-
	B31-12	10/5/2007	11.5	12	soil	< 0.99	< 5	-	-	-	-	-	-	-	-	-	-	-	-	-
	B31-16.5	10/5/2007	15.5	16	soil	1 Y	< 5	-	-	-	-	-	-	-	-	-	-	-	-	-
	B31-22	10/5/2007	21.5	22	soil	< 1	< 5	-	-	-	-	-	-	-	-	-	-	-	-	-
	~~B32-5~~	~~10/9/2007~~	~~4.5~~	~~5~~	~~soil~~	~~540 Y~~	~~2,000~~	-	-	-	-	-	-	-	-	-	-	-	-	-
	~~B32-7.5~~	~~10/9/2007~~	~~7~~	~~7.5~~	~~soil~~	~~8.6 Y~~	~~32~~	-	-	-	-	-	-	-	-	-	-	-	-	-
	~~B32-15.5~~	~~10/9/2007~~	~~15~~	~~15.5~~	~~soil~~	~~670 Y~~	~~1,700~~	-	-	-	-	-	-	-	-	-	-	-	-	-
	B32-17	10/9/2007	16.5	17	soil	7.9 Y	42	-	-	-	-	-	-	-	-	-	-	-	-	-
	B32-22	10/9/2007	21.5	22	soil	< 1	< 5	-	-	-	-	-	-	-	-	-	-	-	-	-
	B33-5	10/8/2007	4.5	5	soil	35 Y	190	-	-	-	-	-	-	-	-	-	-	-	-	-
	B33-6.5	10/8/2007	6	6.5	soil	1.1 Y	5	-	-	-	-	-	-	-	-	-	-	-	-	-
	B33-12.5	10/8/2007	12	12.5	soil	< 1	< 5	-	-	-	-	-	-	-	-	-	-	-	-	-
	B33-18	10/8/2007	17.5	18	soil	< 0.99	< 5	-	-	-	-	-	-	-	-	-	-	-	-	-
	B33-22	10/8/2007	21.5	22	soil	< 1	< 5	-	-	-	-	-	-	-	-	-	-	-	-	-
West of Former Spray Rack Area																				
	B34-5	10/10/2007	4.5	5	soil	37 Y	670	-	-	-	-	-	-	-	-	-	-	-	-	-
	B34-7	10/10/2007	6.5	7	soil	2.3 Y	28	-	-	-	-	-	-	-	-	-	-	-	-	-
	B34-11.5	10/10/2007	11	11.5	soil	< 0.99	5	-	-	-	-	-	-	-	-	-	-	-	-	-
	~~B35-5~~	~~10/10/2007~~	~~4.5~~	~~5~~	~~soil~~	~~370 Y~~	~~1,200~~	-	-	-	-	-	-	-	-	-	-	-	-	-
	B35-10.5	10/10/2007	10	10.5	soil	12 Y	150	-	-	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous Samples																				
Product Material from Paving Oil Containment Structure																				
	OIL-FP	10/8/2007	grab	grab	product	26,000 Y	450,000	< 25	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 130	< 2500	< 130	< 130
Soil Borings for Groundwater Monitoring Wells																				
	MW-3-35	10/4/2007	34.5	35	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ESLs					shallow soils	83	2,500	83	44	2,900	3,300	2,300	2,300	23	-	-	-	0.001*	0.33	4.5
					deep soils	83	5,000	83	44	2,900	3,300	2,300	2,300	23	-	-	-	-	0.33	4.5

Table 3
Petroleum Hydrocarbons and Associated Compounds Detected in Soil Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per kilogram [mg/kg] or micrograms per kilogram [ug/kg], as noted)

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Total Petroleum Hydrocarbons TPHd (mg/kg)	TPHmo (mg/kg)	TPHg (mg/kg)	BTEX compounds B (ug/kg)	T (ug/kg)	E (ug/kg)	m,p-X (ug/kg)	o-X (ug/kg)	Fuel Oxygenates MTBE (ug/kg)	TAME (ug/kg)	DIPE (ug/kg)	ETBE (ug/kg)	TBA (ug/kg)	Lead Scavengers EDB (ug/kg)	EDC (ug/kg)

Notes:
feet bgs = feet below ground surface
mg/kg = milligrams per kilogram
ug/kg = micrograms per kilogram
TPHd = total petroleum hydrocarbons as diesel
TPHmo = total petroleum hydrocarbons as motor oil
TPHg = total petroleum hydrocarbons as gasoline
BTEX = benzene, toluene, ethylbenzene, and total xylenes
bold indicates that the compound was detected above the laboratory reporting limit.
83 Y boxed values exceed the respective ESL.
"<" = not detected above the laboratory report given
"-" = sample not analyzed or no ESL exists
Y = sample exhibits chromatographic pattern which does not resemble standard
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Shallow or Deep Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.
* = No ESL for tert-butyl alcohol exists for shallow soil beneath commercial land use, the ESL for shallow soil beneath residential land use is included in this table.

B = benzene
T = toluene
E = ethylbenzene
m,p-X = m,p-xylenes
o-X = o-xylenes

MTBE = methyl tert-butyl ether
TAME = tert-amyl methyl ether (methyl tert-amyl ether)
DIPE = diisopropyl ether (isopropyl ether)
ETBE = ethyl tert-butyl ether
TBA = tert-butyl alcohol
EDB = 1,2-dibromoethane (ethylene dibromide)
EDC = 1,2-dichloroethane

Orange highlight indicates the reported quantity exceeds Tier 1 ESL
Green Highlight indicates reporting limit exceeds Tier 1 ESL

Table 4
Volatile Organic Compounds Detected in Soil Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	VOCs *
Depth-Discrete Soil Samples from Temporary Soil Borings						
Deep Soil Contamination						
	B25-9	10/8/2007	8.5	9	soil	-
	B25-12	10/8/2007	11.5	12	soil	-
	B25-16	10/8/2007	15.5	16	soil	-
	B25-21	10/8/2007	20.5	21	soil	-
	B25-26.5	10/8/2007	26	26.5	soil	-
	B25-31	10/8/2007	30.5	31	soil	-
	B25-35.5	10/8/2007	35	35.5	soil	-
	B25-36	10/8/2007	35.5	36	soil	-
	B25-47	10/8/2007	46.5	47	soil	-
	B25A-34.5	10/8/2007	34	34.5	soil	-
	B25A-35	10/8/2007	34.5	35	soil	-
	B26-6	10/9/2007	5.5	6	soil	-
	B26-16.5	10/9/2007	16	16.5	soil	-
	B26-22.5	10/9/2007	22	22.5	soil	-
	B26-28	10/9/2007	27.5	28	soil	-
	B26-32	10/9/2007	31.5	32	soil	-
	B26-33.5	10/9/2007	33	33.5	soil	-
	B26-38	10/9/2007	37.5	38	soil	-
	B26-42.5	10/9/2007	42	42.5	soil	-
	B26-47	10/9/2007	46.5	47	soil	-
	B27-7	10/9/2007	6.5	7	soil	-
	B27-16	10/9/2007	15.5	16	soil	-
	B27-22	10/9/2007	21.5	22	soil	-
	B27-27.5	10/9/2007	27	27.5	soil	-
	B27-32	10/9/2007	31.5	32	soil	-
	B27-37.5	10/9/2007	37	37.5	soil	-
	B27-42	10/9/2007	41	41.5	soil	-
	B27-46.5	10/9/2007	46	46.5	soil	-
South of Former Hot Mix Asphalt Plant						
	B28-5	10/4/2007	4.5	5	soil	-
	B28-8	10/4/2007	7.5	8	soil	-
	B28-13	10/4/2007	12.5	13	soil	-
	B28-18	10/4/2007	17.5	18	soil	-
	B28-22.5	10/4/2007	22	22.5	soil	-
	B28-27.5	10/4/2007	27	27.5	soil	-
	B28-37	10/4/2007	36.5	37	soil	-
	B28-47.5	10/4/2007	47	47.5	soil	-
	B28-59	10/4/2007	58.5	59	soil	-
	B29-5	10/5/2007	4.5	5	soil	-
	B29-6	10/5/2007	5.5	6	soil	-
	B29-11	10/5/2007	10.5	11	soil	-
	B29-16	10/5/2007	15.5	16	soil	-
	B29-23	10/5/2007	22.5	23	soil	-
	B29-27	10/5/2007	26.5	27	soil	-
	B29-33	10/5/2007	32.5	33	soil	-
	B29-37	10/5/2007	36.5	37	soil	-
	B29-43	10/5/2007	42.5	43	soil	-

Table 4
Volatile Organic Compounds Detected in Soil Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	VOCs *
	B29-48	10/5/2007	47.5	48	soil	-
	B29-57.5	10/5/2007	57	57.5	soil	-
	B30-5	10/4/2007	4.5	5	soil	-
	B30-8	10/4/2007	7.5	8	soil	-
	B30-15	10/4/2007	14.5	15	soil	-
	B30-17.5	10/4/2007	17	17.5	soil	-
West of Former Hot Mix Asphalt Plant						
	B31-5	10/5/2007	4.5	5	soil	-
	B31-8.5	10/5/2007	8	8.5	soil	-
	B31-12	10/5/2007	11.5	12	soil	-
	B31-16.5	10/5/2007	15.5	16	soil	-
	B31-22	10/5/2007	21.5	22	soil	-
	B32-5	10/9/2007	4.5	5	soil	-
	B32-7.5	10/9/2007	7	7.5	soil	-
	B32-15.5	10/9/2007	15	15.5	soil	-
	B32-17	10/9/2007	16.5	17	soil	-
	B32-22	10/9/2007	21.5	22	soil	-
	B33-5	10/8/2007	4.5	5	soil	-
	B33-6.5	10/8/2007	6	6.5	soil	-
	B33-12.5	10/8/2007	12	12.5	soil	-
	B33-18	10/8/2007	17.5	18	soil	-
	B33-22	10/8/2007	21.5	22	soil	-
West of Former Spray Rack Area						
	B34-5	10/10/2007	4.5	5	soil	-
	B34-7	10/10/2007	6.5	7	soil	-
	B34-11.5	10/10/2007	11	11.5	soil	-
	B35-5	10/10/2007	4.5	5	soil	-
	B35-10.5	10/10/2007	10	10.5	soil	-
Miscellaneous Samples						
Product from Surface Structures						
	OIL-FP	10/8/2007	grab	grab	product	ND
Soil Borings for Groundwater Monitoring Wells						
	MW-3-35	10/4/2007	34.5	35	soil	-
ESLs					shallow or deep soils	various

Notes:
* No VOCs were detected above their respective laboratory limits in any of these samples.
VOCs = volatile organic compounds
feet bgs = feet below ground surface
"-" = sample not analyzed
ND = not detected
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Shallow or Deep Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

AOC 1

Table 5
Semi-Volatile Organic Compounds Detected in Soil Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in micrograms per kilogram [ug/kg])

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	SVOCs * 2-Methylnaphthalene (ug/kg)	SVOCs * Phenanthrene (ug/kg)
Depth-Discrete Soil Samples from Temporary Soil Borings							
Deep Soil Contamination							
	B25-9	10/8/2007	8.5	9	soil	-	-
	B25-12	10/8/2007	11.5	12	soil	-	-
	B25-16	10/8/2007	15.5	16	soil	-	-
	B25-21	10/8/2007	20.5	21	soil	-	-
	B25-26.5	10/8/2007	26	26.5	soil	-	-
	B25-31	10/8/2007	30.5	31	soil	< 67	< 67
	B25-35.5	10/8/2007	35	35.5	soil	< 1,300	< 1,300
	B25-36	10/8/2007	35.5	36	soil	-	-
	B25-47	10/8/2007	46.5	47	soil	-	-
	B25A-34.5	10/8/2007	34	34.5	soil	7,200	4,700
	B25A-35	10/8/2007	34.5	35	soil	-	-
	B26-6	10/9/2007	5.5	6	soil	-	-
	B26-16.5	10/9/2007	16	16.5	soil	-	-
	B26-22.5	10/9/2007	22	22.5	soil	-	-
	B26-28	10/9/2007	27.5	28	soil	-	-
	B26-32	10/9/2007	31.5	32	soil	52,000	18,000
	B26-33.5	10/9/2007	33	33.5	soil	< 66	< 66
	B26-38	10/9/2007	37.5	38	soil	-	-
	B26-42.5	10/9/2007	42	42.5	soil	-	-
	B26-47	10/9/2007	46.5	47	soil	-	-
	B27-7	10/9/2007	6.5	7	soil	-	-
	B27-16	10/9/2007	15.5	16	soil	-	-
	B27-22	10/9/2007	21.5	22	soil	-	-
	B27-27.5	10/9/2007	27	27.5	soil	-	-
	B27-32	10/9/2007	31.5	32	soil	-	-
	B27-37.5	10/9/2007	37	37.5	soil	-	-
	B27-42	10/9/2007	41	41.5	soil	-	-
	B27-46.5	10/9/2007	46	46.5	soil	-	-
South of Former Hot Mix Asphalt Plant							
	B28-5	10/4/2007	4.5	5	soil	-	-
	B28-8	10/4/2007	7.5	8	soil	-	-
	B28-13	10/4/2007	12.5	13	soil	-	-
	B28-18	10/4/2007	17.5	18	soil	-	-
	B28-22.5	10/4/2007	22	22.5	soil	-	-
	B28-27.5	10/4/2007	27	27.5	soil	-	-
	B28-37	10/4/2007	36.5	37	soil	-	-
	B28-47.5	10/4/2007	47	47.5	soil	-	-
	B28-59	10/4/2007	58.5	59	soil	-	-
	B29-5	10/5/2007	4.5	5	soil	-	-
	B29-6	10/5/2007	5.5	6	soil	-	-
	B29-11	10/5/2007	10.5	11	soil	-	-
	B29-16	10/5/2007	15.5	16	soil	-	-
	B29-23	10/5/2007	22.5	23	soil	-	-
	B29-27	10/5/2007	26.5	27	soil	-	-
	B29-33	10/5/2007	32.5	33	soil	-	-
	B29-37	10/5/2007	36.5	37	soil	-	-
		2016 TIER 1 ESLs				250	110,000

AOC 1

Table 5
Semi-Volatile Organic Compounds Detected in Soil Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in micrograms per kilogram [ug/kg])

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	SVOCs * 2-Methylnaphthalene (ug/kg)	SVOCs * Phenanthrene (ug/kg)
	B29-43	10/5/2007	42.5	43	soil	-	-
	B29-48	10/5/2007	47.5	48	soil	-	-
	B29-57.5	10/5/2007	57	57.5	soil	-	-
	B30-5	10/4/2007	4.5	5	soil	-	-
	B30-8	10/4/2007	7.5	8	soil	-	-
	B30-15	10/4/2007	14.5	15	soil	-	-
	B30-17.5	10/4/2007	17	17.5	soil	-	-
West of Former Hot Mix Asphalt Plant							
	B31-5	10/5/2007	4.5	5	soil	-	-
	B31-8.5	10/5/2007	8	8.5	soil	-	-
	B31-12	10/5/2007	11.5	12	soil	-	-
	B31-16.5	10/5/2007	15.5	16	soil	-	-
	B31-22	10/5/2007	21.5	22	soil	-	-
	B32-5	10/9/2007	4.5	5	soil	-	-
	B32-7.5	10/9/2007	7	7.5	soil	-	-
	B32-15.5	10/9/2007	15	15.5	soil	-	-
	B32-17	10/9/2007	16.5	17	soil	-	-
	B32-22	10/9/2007	21.5	22	soil	-	-
	B33-5	10/8/2007	4.5	5	soil	-	-
	B33-6.5	10/8/2007	6	6.5	soil	-	-
	B33-12.5	10/8/2007	12	12.5	soil	-	-
	B33-18	10/8/2007	17.5	18	soil	-	-
	B33-22	10/8/2007	21.5	22	soil	-	-
West of Former Spray Rack Area							
	B34-5	10/10/2007	4.5	5	soil	-	-
	B34-7	10/10/2007	6.5	7	soil	-	-
	B34-11.5	10/10/2007	11	11.5	soil	-	-
	B35-5	10/10/2007	4.5	5	soil	-	-
	B35-10.5	10/10/2007	10	10.5	soil	-	-
Miscellaneous Samples							
Product from Surface Structures							
	OIL-FP	10/8/2007	grab	grab	product	< 80,000	< 80,000
Soil Borings for Groundwater Monitoring Wells							
	MW-3-35	10/4/2007	34.5	35	soil	-	-
ESLs					shallow soils	1,200	40,000
					deep soils	1,200	490,000

Notes:
* No other SVOCs were detected above their respective laboratory limits in any of these samples.
SVOCs = semi-volatile organic compounds
feet bgs = feet below ground surface
ug/kg = micrograms per kilogram
"-" = sample not analyzed
bold indicates that the compound was detected above the laboratory reporting limit.
"<" = not detected above the laboratory report given
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Shallow or Deep Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL
Green Highlight indicates reporting limit exceeds Tier 1 ESL

Table 6
Organochlorine Pesticides Detected in Soil Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Organochlorine Pesticides *
Depth-Discrete Soil Samples from Temporary Soil Borings						
Deep Soil Contamination						
	B25-9	10/8/2007	8.5	9	soil	-
	B25-12	10/8/2007	11.5	12	soil	-
	B25-16	10/8/2007	15.5	16	soil	-
	B25-21	10/8/2007	20.5	21	soil	-
	B25-26.5	10/8/2007	26	26.5	soil	-
	B25-31	10/8/2007	30.5	31	soil	-
	B25-35.5	10/8/2007	35	35.5	soil	-
	B25-36	10/8/2007	35.5	36	soil	-
	B25-47	10/8/2007	46.5	47	soil	-
	B25A-34.5	10/8/2007	34	34.5	soil	-
	B25A-35	10/8/2007	34.5	35	soil	-
	B26-6	10/9/2007	5.5	6	soil	-
	B26-16.5	10/9/2007	16	16.5	soil	-
	B26-22.5	10/9/2007	22	22.5	soil	-
	B26-28	10/9/2007	27.5	28	soil	-
	B26-32	10/9/2007	31.5	32	soil	-
	B26-33.5	10/9/2007	33	33.5	soil	-
	B26-38	10/9/2007	37.5	38	soil	-
	B26-42.5	10/9/2007	42	42.5	soil	-
	B26-47	10/9/2007	46.5	47	soil	-
	B27-7	10/9/2007	6.5	7	soil	-
	B27-16	10/9/2007	15.5	16	soil	-
	B27-22	10/9/2007	21.5	22	soil	-
	B27-27.5	10/9/2007	27	27.5	soil	-
	B27-32	10/9/2007	31.5	32	soil	-
	B27-37.5	10/9/2007	37	37.5	soil	-
	B27-42	10/9/2007	41	41.5	soil	-
	B27-46.5	10/9/2007	46	46.5	soil	-
South of Former Hot Mix Asphalt Plant						
	B28-5	10/4/2007	4.5	5	soil	-
	B28-8	10/4/2007	7.5	8	soil	-
	B28-13	10/4/2007	12.5	13	soil	-
	B28-18	10/4/2007	17.5	18	soil	-
	B28-22.5	10/4/2007	22	22.5	soil	-
	B28-27.5	10/4/2007	27	27.5	soil	-
	B28-37	10/4/2007	36.5	37	soil	-
	B28-47.5	10/4/2007	47	47.5	soil	-
	B28-59	10/4/2007	58.5	59	soil	-
	B29-5	10/5/2007	4.5	5	soil	-
	B29-6	10/5/2007	5.5	6	soil	-
	B29-11	10/5/2007	10.5	11	soil	-
	B29-16	10/5/2007	15.5	16	soil	-
	B29-23	10/5/2007	22.5	23	soil	-
	B29-27	10/5/2007	26.5	27	soil	-
	B29-33	10/5/2007	32.5	33	soil	-
	B29-37	10/5/2007	36.5	37	soil	-
	B29-43	10/5/2007	42.5	43	soil	-
	B29-48	10/5/2007	47.5	48	soil	-
	B29-57.5	10/5/2007	57	57.5	soil	-

Table 6
Organochlorine Pesticides Detected in Soil Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Organochlorine Pesticides *
	B30-5	10/4/2007	4.5	5	soil	-
	B30-8	10/4/2007	7.5	8	soil	-
	B30-15	10/4/2007	14.5	15	soil	-
	B30-17.5	10/4/2007	17	17.5	soil	-
West of Former Hot Mix Asphalt Plant						
	B31-5	10/5/2007	4.5	5	soil	-
	B31-8.5	10/5/2007	8	8.5	soil	-
	B31-12	10/5/2007	11.5	12	soil	-
	B31-16.5	10/5/2007	15.5	16	soil	-
	B31-22	10/5/2007	21.5	22	soil	-
	B32-5	10/9/2007	4.5	5	soil	-
	B32-7.5	10/9/2007	7	7.5	soil	-
	B32-15.5	10/9/2007	15	15.5	soil	-
	B32-17	10/9/2007	16.5	17	soil	-
	B32-22	10/9/2007	21.5	22	soil	-
	B33-5	10/8/2007	4.5	5	soil	-
	B33-6.5	10/8/2007	6	6.5	soil	-
	B33-12.5	10/8/2007	12	12.5	soil	-
	B33-18	10/8/2007	17.5	18	soil	-
	B33-22	10/8/2007	21.5	22	soil	-
West of Former Spray Rack Area						
	B34-5	10/10/2007	4.5	5	soil	-
	B34-7	10/10/2007	6.5	7	soil	-
	B34-11.5	10/10/2007	11	11.5	soil	-
	B35-5	10/10/2007	4.5	5	soil	-
	B35-10.5	10/10/2007	10	10.5	soil	-
Miscellaneous Samples						
Product from Surface Structures						
	OIL-FP	10/8/2007	grab	grab	product	ND
Soil Borings for Groundwater Monitoring Wells						
	MW-3-35	10/4/2007	34.5	35	soil	-
ESLs					shallow or deep soils	various

Notes:
* No organochlorine pesticides were detected above their respective laboratory limits in any of these samples.
feet bgs = feet below ground surface
"-" = sample not analyzed
ND = not detected
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Shallow or Deep Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Table 7
Polychlorinated Biphenyls Detected in Soil Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	PCBs *
Depth-Discrete Soil Samples from Temporary Soil Borings						
Deep Soil Contamination						
	B25-9	10/8/2007	8.5	9	soil	-
	B25-12	10/8/2007	11.5	12	soil	-
	B25-16	10/8/2007	15.5	16	soil	-
	B25-21	10/8/2007	20.5	21	soil	-
	B25-26.5	10/8/2007	26	26.5	soil	-
	B25-31	10/8/2007	30.5	31	soil	ND
	B25-35.5	10/8/2007	35	35.5	soil	ND
	B25-36	10/8/2007	35.5	36	soil	-
	B25-47	10/8/2007	46.5	47	soil	-
	B25A-34.5	10/8/2007	34	34.5	soil	ND
	B25A-35	10/8/2007	34.5	35	soil	-
	B26-6	10/9/2007	5.5	6	soil	-
	B26-16.5	10/9/2007	16	16.5	soil	-
	B26-22.5	10/9/2007	22	22.5	soil	-
	B26-28	10/9/2007	27.5	28	soil	-
	B26-32	10/9/2007	31.5	32	soil	ND
	B26-33.5	10/9/2007	33	33.5	soil	ND
	B26-38	10/9/2007	37.5	38	soil	-
	B26-42.5	10/9/2007	42	42.5	soil	-
	B26-47	10/9/2007	46.5	47	soil	-
	B27-7	10/9/2007	6.5	7	soil	-
	B27-16	10/9/2007	15.5	16	soil	-
	B27-22	10/9/2007	21.5	22	soil	-
	B27-27.5	10/9/2007	27	27.5	soil	-
	B27-32	10/9/2007	31.5	32	soil	-
	B27-37.5	10/9/2007	37	37.5	soil	-
	B27-42	10/9/2007	41	41.5	soil	-
	B27-46.5	10/9/2007	46	46.5	soil	-
South of Former Hot Mix Asphalt Plant						
	B28-5	10/4/2007	4.5	5	soil	-
	B28-8	10/4/2007	7.5	8	soil	-
	B28-13	10/4/2007	12.5	13	soil	-
	B28-18	10/4/2007	17.5	18	soil	-
	B28-22.5	10/4/2007	22	22.5	soil	-
	B28-27.5	10/4/2007	27	27.5	soil	-
	B28-37	10/4/2007	36.5	37	soil	-
	B28-47.5	10/4/2007	47	47.5	soil	-
	B28-59	10/4/2007	58.5	59	soil	-
	B29-5	10/5/2007	4.5	5	soil	-
	B29-6	10/5/2007	5.5	6	soil	-
	B29-11	10/5/2007	10.5	11	soil	-
	B29-16	10/5/2007	15.5	16	soil	-
	B29-23	10/5/2007	22.5	23	soil	-
	B29-27	10/5/2007	26.5	27	soil	-
	B29-33	10/5/2007	32.5	33	soil	-
	B29-37	10/5/2007	36.5	37	soil	-
	B29-43	10/5/2007	42.5	43	soil	-
	B29-48	10/5/2007	47.5	48	soil	-
	B29-57.5	10/5/2007	57	57.5	soil	-

Table 7
Polychlorinated Biphenyls Detected in Soil Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	PCBs *
	B30-5	10/4/2007	4.5	5	soil	-
	B30-8	10/4/2007	7.5	8	soil	-
	B30-15	10/4/2007	14.5	15	soil	-
	B30-17.5	10/4/2007	17	17.5	soil	-
West of Former Hot Mix Asphalt Plant						
	B31-5	10/5/2007	4.5	5	soil	-
	B31-8.5	10/5/2007	8	8.5	soil	-
	B31-12	10/5/2007	11.5	12	soil	-
	B31-16.5	10/5/2007	15.5	16	soil	-
	B31-22	10/5/2007	21.5	22	soil	-
	B32-5	10/9/2007	4.5	5	soil	-
	B32-7.5	10/9/2007	7	7.5	soil	-
	B32-15.5	10/9/2007	15	15.5	soil	-
	B32-17	10/9/2007	16.5	17	soil	-
	B32-22	10/9/2007	21.5	22	soil	-
	B33-5	10/8/2007	4.5	5	soil	-
	B33-6.5	10/8/2007	6	6.5	soil	-
	B33-12.5	10/8/2007	12	12.5	soil	-
	B33-18	10/8/2007	17.5	18	soil	-
	B33-22	10/8/2007	21.5	22	soil	-
West of Former Spray Rack Area						
	B34-5	10/10/2007	4.5	5	soil	-
	B34-7	10/10/2007	6.5	7	soil	-
	B34-11.5	10/10/2007	11	11.5	soil	-
	B35-5	10/10/2007	4.5	5	soil	-
	B35-10.5	10/10/2007	10	10.5	soil	-
Miscellaneous Samples						
Product from Surface Structures						
	OIL-FP	10/8/2007	grab	grab	product	ND
Soil Borings for Groundwater Monitoring Wells						
	MW-3-35	10/4/2007	34.5	35	soil	-
ESLs					shallow or deep soils	various

Notes:
* No PCBs were detected above their respective laboratory limits in any of these samples.
PCBs = polychlorinated biphenyls
feet bgs = feet below ground surface
"-" = sample not analyzed
ND = not detected
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Shallow or Deep Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

AOC 1

Table 8
Metals Detected in Soil Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per kilogram [mg/kg])

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	LUFT5 Metals and Arsenic (mg/kg) As	Cd	Cr	Ni	Pb	Zn	CAM 17 Metals (mg/kg) Ag	Ba	Be	Co	Cu	Hg	Mo	Sb	Se	Tl	V
						2016 TIER 1 ESLs																
						11	39	120,000	820	80	23,000	390	3000	42	23	3100	13	390	31	390	0.74	10
Depth-Discrete Soil Samples from Temporary Soil Borings																						
Deep Soil Contamination																						
	B25-9	10/8/2007	8.5	9	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B25-12	10/8/2007	11.5	12	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B25-16	10/8/2007	15.5	16	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B25-21	10/8/2007	20.5	21	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B25-26.5	10/8/2007	26	26.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B25-31	10/8/2007	30.5	31	soil	3.5	<0.25	26	44	4.3	40	-	-	-	-	-	-	-	-	-	-	-
	B25-35.5	10/8/2007	35	35.5	soil	3.3	<0.25	31	52	5.3	33	-	-	-	-	-	-	-	-	-	-	-
	B25-36	10/8/2007	35.5	36	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B25-47	10/8/2007	46.5	47	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B25A-34.5	10/8/2007	34	34.5	soil	2.3	<0.25	53	77	5.5	43	-	-	-	-	-	-	-	-	-	-	-
	B25A-35	10/8/2007	34.5	35	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B26-6	10/9/2007	5.5	6	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B26-16.5	10/9/2007	16	16.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B26-22.5	10/9/2007	22	22.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B26-28	10/9/2007	27.5	28	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B26-32	10/9/2007	31.5	32	soil	0.93	<0.25	13	19	2.3	15	-	-	-	-	-	-	-	-	-	-	-
	B26-33.5	10/9/2007	33	33.5	soil	7.3	<0.25	58	80	7.3	47	-	-	-	-	-	-	-	-	-	-	-
	B26-38	10/9/2007	37.5	38	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B26-42.5	10/9/2007	42	42.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B26-47	10/9/2007	46.5	47	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B27-7	10/9/2007	6.5	7	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B27-16	10/9/2007	15.5	16	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B27-22	10/9/2007	21.5	22	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B27-27.5	10/9/2007	27	27.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B27-32	10/9/2007	31.5	32	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B27-37.5	10/9/2007	37	37.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B27-42	10/9/2007	41	41.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B27-46.5	10/9/2007	46	46.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South of Former Hot Mix Asphalt Plant																						
	B28-5	10/4/2007	4.5	5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B28-8	10/4/2007	7.5	8	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B28-13	10/4/2007	12.5	13	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B28-18	10/4/2007	17.5	18	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B28-22.5	10/4/2007	22	22.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B28-27.5	10/4/2007	27	27.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B28-37	10/4/2007	36.5	37	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B28-47.5	10/4/2007	47	47.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AOC 1

Table 8
Metals Detected in Soil Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per kilogram [mg/kg])

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	LUFT5 Metals and Arsenic (mg/kg) As	Cd	Cr	Ni	Pb	Zn	CAM 17 Metals (mg/kg) Ag	Ba	Be	Co	Cu	Hg	Mo	Sb	Se	Tl	V
	B28-59	10/4/2007	58.5	59	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B29-5	10/5/2007	4.5	5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B29-6	10/5/2007	5.5	6	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B29-11	10/5/2007	10.5	11	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B29-16	10/5/2007	15.5	16	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B29-23	10/5/2007	22.5	23	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B29-27	10/5/2007	26.5	27	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B29-33	10/5/2007	32.5	33	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B29-37	10/5/2007	36.5	37	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B29-43	10/5/2007	42.5	43	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B29-48	10/5/2007	47.5	48	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B29-57.5	10/5/2007	57	57.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B30-5	10/4/2007	4.5	5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B30-8	10/4/2007	7.5	8	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B30-15	10/4/2007	14.5	15	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B30-17.5	10/4/2007	17	17.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West of Former Hot Mix Asphalt Plant																						
	B31-5	10/5/2007	4.5	5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B31-8.5	10/5/2007	8	8.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B31-12	10/5/2007	11.5	12	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B31-16.5	10/5/2007	15.5	16	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B31-22	10/5/2007	21.5	22	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B32-5	10/9/2007	4.5	5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B32-7.5	10/9/2007	7	7.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B32-15.5	10/9/2007	15	15.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B32-17	10/9/2007	16.5	17	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B32-22	10/9/2007	21.5	22	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B33-5	10/8/2007	4.5	5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B33-6.5	10/8/2007	6	6.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B33-12.5	10/8/2007	12	12.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B33-18	10/8/2007	17.5	18	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B33-22	10/8/2007	21.5	22	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West of Former Spray Rack Area																						
	B34-5	10/10/2007	4.5	5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B34-7	10/10/2007	6.5	7	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B34-11.5	10/10/2007	11	11.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B35-5	10/10/2007	4.5	5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B35-10.5	10/10/2007	10	10.5	soil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AOC 1

Table 8
Metals Detected in Soil Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per kilogram [mg/kg])

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	LUFT5 Metals and Arsenic (mg/kg) As	Cd	Cr	Ni	Pb	Zn	CAM 17 Metals (mg/kg) Ag	Ba	Be	Co	Cu	Hg	Mo	Sb	Se	Tl	V
Miscellaneous Samples																						
Product from Surface Structures																						
	OIL-FP	10/8/2007	grab	grab	product	<0.28	<0.25	<0.25	8.8	<0.25	9.0	<0.25	0.25	<0.1	<0.25	0.36	<0.02	<0.25	<0.5	<0.5	<0.5	8.4
Soil Borings for Groundwater Monitoring Wells																						
	MW-3-35	10/4/2007	34.5	35	soil																	
ESLs			shallow soils (less than 10 feet bgs)			1.5	7.4	750/8*	150	750	600	40	1,500	8	80	230	10	40	40	10	15	190
ESLs			deep soils (greater than 10 feet bgs)			14	39	5,000	260	750	5,000	3,600	2,600	98	94	5,000	33	3,600	280	3,600	57	710

Notes:

As = arsenic
Cd = cadmium
Cr = Chromium
Ni = Nickel
Pb = Lead
Zn = Zinc
Ag = Silver
Ba = Barium
Be = Beryllium
Co = Cobalt
Cu = Copper
Hg = Mercury
Mo = Molybdenum
Sb = Antimony
Se = Selenium
Tl = Thallium
V = Vanadium

feet bgs = feet below ground surface
mg/kg = milligrams per kilogram
bold indicates that the compound was detected above the laboratory reporting limit
"<" = not detected above the laboratory report given
"-" = sample not analyzed or ESL not established
* = No ESL exists for total chromium in shallow soil beneath commerical/industrial land use area; the ESLs for chromium III/chromium VI are provided in this table instead.
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Shallow or Deep Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL
Green Highlight indicates reporting limit exceeds Tier 1 ESL

AOC 1

Table 9
SPLP Total Petroleum Hydrocarbons Detected in Soil Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	SPLP TPH TPHd (ug/l)	SPLP TPH TPHmo (ug/l)
Depth-Discrete Soil Samples from Temporary Soil Borings				2016 TIER 1 ESLs		100	—
Deep Soil Contamination							
	B25-9	10/8/2007	8.5	9	soil	-	-
	B25-12	10/8/2007	11.5	12	soil	-	-
	B25-16	10/8/2007	15.5	16	soil	-	-
	B25-21	10/8/2007	20.5	21	soil	-	-
	B25-26.5	10/8/2007	26	26.5	soil	-	-
	B25-31	10/8/2007	30.5	31	soil	< 50	< 300
	B25-35.5	10/8/2007	35	35.5	soil	< 50	< 300
	B25-36	10/8/2007	35.5	36	soil	-	-
	B25-47	10/8/2007	46.5	47	soil	-	-
	B25A-34.5	10/8/2007	34	34.5	soil	740	< 300
	B25A-35	10/8/2007	34.5	35	soil	-	-
	B26-6	10/9/2007	5.5	6	soil	-	-
	B26-16.5	10/9/2007	16	16.5	soil	-	-
	B26-22.5	10/9/2007	22	22.5	soil	-	-
	B26-28	10/9/2007	27.5	28	soil	-	-
	B26-32	10/9/2007	31.5	32	soil	720	< 300
	B26-33.5	10/9/2007	33	33.5	soil	< 50	< 300
	B26-38	10/9/2007	37.5	38	soil	-	-
	B26-42.5	10/9/2007	42	42.5	soil	-	-
	B26-47	10/9/2007	46.5	47	soil	-	-
	B27-7	10/9/2007	6.5	7	soil	-	-
	B27-16	10/9/2007	15.5	16	soil	-	-
	B27-22	10/9/2007	21.5	22	soil	-	-
	B27-27.5	10/9/2007	27	27.5	soil	-	-
	B27-32	10/9/2007	31.5	32	soil	-	-
	B27-37.5	10/9/2007	37	37.5	soil	-	-
	B27-42	10/9/2007	41	41.5	soil	-	-
	B27-46.5	10/9/2007	46	46.5	soil	-	-
South of Former Hot Mix Asphalt Plant							
	B28-5	10/4/2007	4.5	5	soil	-	-
	B28-8	10/4/2007	7.5	8	soil	-	-
	B28-13	10/4/2007	12.5	13	soil	-	-
	B28-18	10/4/2007	17.5	18	soil	-	-
	B28-22.5	10/4/2007	22	22.5	soil	-	-
	B28-27.5	10/4/2007	27	27.5	soil	-	-
	B28-37	10/4/2007	36.5	37	soil	-	-
	B28-47.5	10/4/2007	47	47.5	soil	-	-
	B28-59	10/4/2007	58.5	59	soil	-	-
	B29-5	10/5/2007	4.5	5	soil	-	-
	B29-6	10/5/2007	5.5	6	soil	-	-
	B29-11	10/5/2007	10.5	11	soil	-	-
	B29-16	10/5/2007	15.5	16	soil	-	-
	B29-23	10/5/2007	22.5	23	soil	-	-
	B29-27	10/5/2007	26.5	27	soil	-	-
	B29-33	10/5/2007	32.5	33	soil	-	-
	B29-37	10/5/2007	36.5	37	soil	-	-
	B29-43	10/5/2007	42.5	43	soil	-	-
	B29-48	10/5/2007	47.5	48	soil	-	-
	B29-57.5	10/5/2007	57	57.5	soil	-	-

Table 9
SPLP Total Petroleum Hydrocarbons Detected in Soil Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	SPLP TPH TPHd (ug/l)	SPLP TPH TPHmo (ug/l)
	B30-5	10/4/2007	4.5	5	soil	-	-
	B30-8	10/4/2007	7.5	8	soil	-	-
	B30-15	10/4/2007	14.5	15	soil	-	-
	B30-17.5	10/4/2007	17	17.5	soil	-	-
West of Former Hot Mix Asphalt Plant							
	B31-5	10/5/2007	4.5	5	soil	-	-
	B31-8.5	10/5/2007	8	8.5	soil	-	-
	B31-12	10/5/2007	11.5	12	soil	-	-
	B31-16.5	10/5/2007	15.5	16	soil	-	-
	B31-22	10/5/2007	21.5	22	soil	-	-
	B32-5	10/9/2007	4.5	5	soil	-	-
	B32-7.5	10/9/2007	7	7.5	soil	-	-
	B32-15.5	10/9/2007	15	15.5	soil	-	-
	B32-17	10/9/2007	16.5	17	soil	-	-
	B32-22	10/9/2007	21.5	22	soil	-	-
	B33-5	10/8/2007	4.5	5	soil	-	-
	B33-6.5	10/8/2007	6	6.5	soil	-	-
	B33-12.5	10/8/2007	12	12.5	soil	-	-
	B33-18	10/8/2007	17.5	18	soil	-	-
	B33-22	10/8/2007	21.5	22	soil	-	-
West of Former Spray Rack Area							
	B34-5	10/10/2007	4.5	5	soil	-	-
	B34-7	10/10/2007	6.5	7	soil	-	-
	B34-11.5	10/10/2007	11	11.5	soil	-	-
	B35-5	10/10/2007	4.5	5	soil	-	-
	B35-10.5	10/10/2007	10	10.5	soil	-	-
Miscellaneous Samples							
Product from Surface Structures							
	OIL-FP	10/8/2007	grab	grab	product	-	-
Soil Borings for Groundwater Monitoring Wells							
	MW-3-35	10/4/2007	34.5	35	soil	-	-
ESLs						100	100

Notes:
SPLP = synthetic precipitation leaching procedure
feet bgs = feet below ground surface
ug/l = micrograms per liter
"-" = sample not analyzed
720 boxed values exceed the respective ESL.
bold indicates that the compound was detected above the laboratory reporting limit.
TPHd = total petroleum hydrocarbons as diesel
TPHmo = total petroleum hydrocarbons as motor oil
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Shallow or Deep Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL
Green Highlight indicates reporting limit exceeds Tier 1 ESL

AOC 1

Table 10
SPLP Metals Detected in Soil Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in micrograms per liter [ug/l])

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	LUFT5 Metals and Arsenic (ug/l) As	Cd	Cr	Ni	Pb	Zn
						2016 TIER 1 ESLs					
						11	0.25	1800	820	2.5	81
Depth-Discrete Soil Samples from Temporary Soil Borings											
Deep Soil Contamination											
	B25-9	10/8/2007	8.5	9	soil	-	-	-	-	-	-
	B25-12	10/8/2007	11.5	12	soil	-	-	-	-	-	-
	B25-16	10/8/2007	15.5	16	soil	-	-	-	-	-	-
	B25-21	10/8/2007	20.5	21	soil	-	-	-	-	-	-
	B25-26.5	10/8/2007	26	26.5	soil	-	-	-	-	-	-
	B25-31	10/8/2007	30.5	31	soil	< 5	< 5	6.9	6.4	< 3.4	< 20
	B25-35.5	10/8/2007	35	35.5	soil	< 5	< 5	19	18	< 3.4	< 20
	B25-36	10/8/2007	35.5	36	soil	-	-	-	-	-	-
	B25-47	10/8/2007	46.5	47	soil	-	-	-	-	-	-
	B25A-34.5	10/8/2007	34	34.5	soil	6.7	< 5	9.2	8.5	5.1	< 20
	B25A-35	10/8/2007	34.5	35	soil	-	-	-	-	-	-
	B26-6	10/9/2007	5.5	6	soil	-	-	-	-	-	-
	B26-16.5	10/9/2007	16	16.5	soil	-	-	-	-	-	-
	B26-22.5	10/9/2007	22	22.5	soil	-	-	-	-	-	-
	B26-28	10/9/2007	27.5	28	soil	-	-	-	-	-	-
	B26-32	10/9/2007	31.5	32	soil	< 5	< 5	20	21	< 3.4	< 20
	B26-33.5	10/9/2007	33	33.5	soil	6.2	< 5	23	23	< 3.4	< 20
	B26-38	10/9/2007	37.5	38	soil	-	-	-	-	-	-
	B26-42.5	10/9/2007	42	42.5	soil	-	-	-	-	-	-
	B26-47	10/9/2007	46.5	47	soil	-	-	-	-	-	-
	B27-7	10/9/2007	6.5	7	soil	-	-	-	-	-	-
	B27-16	10/9/2007	15.5	16	soil	-	-	-	-	-	-
	B27-22	10/9/2007	21.5	22	soil	-	-	-	-	-	-
	B27-27.5	10/9/2007	27	27.5	soil	-	-	-	-	-	-
	B27-32	10/9/2007	31.5	32	soil	-	-	-	-	-	-
	B27-37.5	10/9/2007	37	37.5	soil	-	-	-	-	-	-
	B27-42	10/9/2007	41	41.5	soil	-	-	-	-	-	-
	B27-46.5	10/9/2007	46	46.5	soil	-	-	-	-	-	-
South of Former Hot Mix Asphalt Plant											
	B28-5	10/4/2007	4.5	5	soil	-	-	-	-	-	-
	B28-8	10/4/2007	7.5	8	soil	-	-	-	-	-	-
	B28-13	10/4/2007	12.5	13	soil	-	-	-	-	-	-
	B28-18	10/4/2007	17.5	18	soil	-	-	-	-	-	-
	B28-22.5	10/4/2007	22	22.5	soil	-	-	-	-	-	-
	B28-27.5	10/4/2007	27	27.5	soil	-	-	-	-	-	-
	B28-37	10/4/2007	36.5	37	soil	-	-	-	-	-	-
	B28-47.5	10/4/2007	47	47.5	soil	-	-	-	-	-	-
	B28-59	10/4/2007	58.5	59	soil	-	-	-	-	-	-
	B29-5	10/5/2007	4.5	5	soil	-	-	-	-	-	-
	B29-6	10/5/2007	5.5	6	soil	-	-	-	-	-	-
	B29-11	10/5/2007	10.5	11	soil	-	-	-	-	-	-
	B29-16	10/5/2007	15.5	16	soil	-	-	-	-	-	-
	B29-23	10/5/2007	22.5	23	soil	-	-	-	-	-	-
	B29-27	10/5/2007	26.5	27	soil	-	-	-	-	-	-
	B29-33	10/5/2007	32.5	33	soil	-	-	-	-	-	-
	B29-37	10/5/2007	36.5	37	soil	-	-	-	-	-	-
	B29-43	10/5/2007	42.5	43	soil	-	-	-	-	-	-
	B29-48	10/5/2007	47.5	48	soil	-	-	-	-	-	-

Table 10
SPLP Metals Detected in Soil Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in micrograms per liter [ug/l])

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	LUFT5 Metals and Arsenic (ug/l) As	Cd	Cr	Ni	Pb	Zn
	B29-57.5	10/5/2007	57	57.5	soil	-	-	-	-	-	-
	B30-5	10/4/2007	4.5	5	soil	-	-	-	-	-	-
	B30-8	10/4/2007	7.5	8	soil	-	-	-	-	-	-
	B30-15	10/4/2007	14.5	15	soil	-	-	-	-	-	-
	B30-17.5	10/4/2007	17	17.5	soil	-	-	-	-	-	-
West of Former Hot Mix Asphalt Plant											
	B31-5	10/5/2007	4.5	5	soil	-	-	-	-	-	-
	B31-8.5	10/5/2007	8	8.5	soil	-	-	-	-	-	-
	B31-12	10/5/2007	11.5	12	soil	-	-	-	-	-	-
	B31-16.5	10/5/2007	15.5	16	soil	-	-	-	-	-	-
	B31-22	10/5/2007	21.5	22	soil	-	-	-	-	-	-
	B32-5	10/9/2007	4.5	5	soil	-	-	-	-	-	-
	B32-7.5	10/9/2007	7	7.5	soil	-	-	-	-	-	-
	B32-15.5	10/9/2007	15	15.5	soil	-	-	-	-	-	-
	B32-17	10/9/2007	16.5	17	soil	-	-	-	-	-	-
	B32-22	10/9/2007	21.5	22	soil	-	-	-	-	-	-
	B33-5	10/8/2007	4.5	5	soil	-	-	-	-	-	-
	B33-6.5	10/8/2007	6	6.5	soil	-	-	-	-	-	-
	B33-12.5	10/8/2007	12	12.5	soil	-	-	-	-	-	-
	B33-18	10/8/2007	17.5	18	soil	-	-	-	-	-	-
	B33-22	10/8/2007	21.5	22	soil	-	-	-	-	-	-
West of Former Spray Rack Area											
	B34-5	10/10/2007	4.5	5	soil	-	-	-	-	-	-
	B34-7	10/10/2007	6.5	7	soil	-	-	-	-	-	-
	B34-11.5	10/10/2007	11	11.5	soil	-	-	-	-	-	-
	B35-5	10/10/2007	4.5	5	soil	-	-	-	-	-	-
	B35-10.5	10/10/2007	10	10.5	soil	-	-	-	-	-	-
Miscellaneous Samples											
Product from Surface Structures											
	OIL-FP	10/8/2007	grab	grab	product	-	-	-	-	-	-
Soil Borings for Groundwater Monitoring Wells											
	MW-3-35	10/4/2007	34.5	35	soil	-	-	-	-	-	-
ESLs					groundwater	50	5	50	100	15	5,000

Notes:

SPLP = synthetic precipitation leaching procedure
feet bgs = feet below ground surface
ug/kg = micrograms per kilogram
ug/l = micrograms per liter
bold indicates that the compound was detected above the laboratory reporting limit
"<" = not detected above the laboratory report given
"-" = sample not analyzed or ESL not established

As = Arsenic
Cd = Cadmium
Cr = Chromium
Ni = Nickel
Pb = Lead
Zn = Zinc

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Groundwater beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL
Green Highlight indicates reporting limit exceeds Tier 1 ESL

AOC 1

Table 11
Petroleum Hydrocarbons and Associated Compounds Detected in Groundwater Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in micrograms per liter [ug/l])

Sample Location	Sample ID	Date Sampled	Approximate Sample Depth (feet bgs)	Matrix	Total Petroleum Hydrocarbons			BTEX compounds					Fuel Oxygenates					Lead Scavengers	
					TPHd (ug/l)	TPHmo (ug/l)	TPHg (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	m,p-X (ug/l)	o-X (ug/l)	MTBE (ug/l)	TAME (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TBA (ug/l)	EDB (ug/l)	EDC (ug/l)
Grab Groundwater Samples from Temporary Soil Borings																			
Deep Soil Contamination																			
	B25-GGW	10/8/2007	61 - 64	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5
	B26-GGW	10/9/2007	50 - 53	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5
	B27-GGW	10/9/2007	50 - 53	water	52 Y	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5
South of Former Hot Mix Asphalt Plant																			
	B28-GGW	10/4/2007	47.5 - 50.5	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5
	B29-GGW	10/5/2007	56 - 59	water	350	< 300	28 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5
Miscellaneous Samples																			
Soil Borings for Groundwater Monitoring Wells																			
	MW-4-GGW	10/5/2007	36 - 40	water	57 Y	250	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5
	MW-5A-GGW	10/8/2007	65.8 - 69	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5
Groundwater Monitoring Wells																			
	MW-1-102207	10/22/2007	45 - 60	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5
	MW-2-102207	10/22/2007	45 - 60	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5
	MW-3-102207	10/22/2007	45 - 60	water	< 50	< 300	< 50	< 0.5	0.3 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5
	MW-3-102207-D	10/22/2007	45 - 60	water	< 50	< 300	< 50	< 0.5	0.3 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5
	MW-4-102207	10/22/2007	43 - 48	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MW-5-102207	10/22/2007	69 - 74	water	< 50	< 300	< 50	< 0.5	0.4 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5
	MW-6-102207	10/22/2007	45 - 55	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5
	MW-7-102207	10/22/2007	50 - 65	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5
Quality Assurance and Quality Control Samples																			
	TB-100407	10/4/2007	na	water	-	-	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	-	-	< 0.5	< 0.5
	TB-100507	10/5/2007	na	water	-	-	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	-	-	< 0.5	< 0.5
	TB-100807	10/8/2007	na	water	-	-	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	-	-	< 0.5	< 0.5
	TB-100907	10/9/2007	na	water	-	-	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	-	-	< 0.5	< 0.5
	TB-101007	10/10/2007	na	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TB-102207	10/22/2007	na	water	-	-	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-	-	-	< 0.5	< 0.5
	FB-102207	10/22/2007	na	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5
ESLs				groundwater	100	100	100	1	40	30	20	20	5	-	-	-	-	0.05	0.5
	2016 TIER 1 ESLs				100	-	100	1	40	13	20	20	5	-	-	-	12	-	-

Table 11
Petroleum Hydrocarbons and Associated Compounds Detected in Groundwater Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in micrograms per liter [ug/l])

Sample Location	Sample ID	Date Sampled	Approximate Sample Depth (feet bgs)	Matrix	Total Petroleum Hydrocarbons			BTEX compounds					Fuel Oxygenates					Lead Scavengers	
					TPHd (ug/l)	TPHmo (ug/l)	TPHg (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	m,p-X (ug/l)	o-X (ug/l)	MTBE (ug/l)	TAME (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TBA (ug/l)	EDB (ug/l)	EDC (ug/l)

Notes:
feet bgs = feet below ground surface
ug/l = micrograms per liter
TPHd = total petroleum hydrocarbons as diesel
TPHmo = total petroleum hydrocarbons as motor oil
TPHg = total petroleum hydrocarbons as gasoline
BTEX = benzene, toluene, ethylbenzene, and total xylenes
bold indicates that the compound was detected above the laboratory reporting limit.
350 boxed values exceed the respective ESL.
J = estimated value below laboratory reporting limit
Y = sample exhibits chromatographic pattern which does not resemble standard
"-" = sample not analyzed or no ESL exists
"<" = not detected above the laboratory report given
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Groundwater beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

B = benzene
T = toluene
E = ethylbenzene
m,p-X = m,p-xylenes
o-X = o-xylenes

MTBE = methyl tert-butyl ether
TAME = tert-amyl methyl ether (methyl tert-amyl ether)
DIPE = diisopropyl ether (isopropyl ether)
ETBE = ethyl tert-butyl ether
TBA = tert-butyl alcohol
EDB = 1,2-dibromoethane (ethylene dibromide)
EDC = 1,2-dichloroethane

Orange highlight indicates the reported quantity exceeds Tier 1 ESL
Green Highlight indicates reporting limit exceeds Tier 1 ESL

AOC 1

Table 12
Volatile Organic Compounds Detected in Groundwater Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in micrograms per liter [ug/l])

Sample Location	Sample ID	Date Sampled	Approximate Sample Depth (feet bgs)	Matrix	Volatile Organic Compounds * Acetone (ug/l)	Methylene Chloride (ug/l)
Grab Groundwater Samples from Temporary Soil Borings			2016 TIER 1 ESLs		1500	5
Deep Soil Contamination						
	B25-GGW	10/8/2007	61 - 64	water	< 10	< 0.5
	B26-GGW	10/9/2007	50 - 53	water	< 10	< 0.5
	B27-GGW	10/9/2007	50 - 53	water	< 10	< 0.5
South of Former Hot Mix Asphalt Plant						
	B-28-GGW	10/4/2007	47.5 - 50.5	water	< 10	< 0.5
	B-29-GGW	10/5/2007	56 - 59	water	**7.0 J**	< 0.5
Miscellaneous Samples						
Soil Borings for Groundwater Monitoring Wells						
	MW-4-GGW	10/5/2007	36 - 40	water	**7.8 J**	< 0.5
	MW-5A-GGW	10/8/2007	65.8 - 69	water	< 10	< 0.5
Groundwater Monitoring Wells						
	MW-1-102207	10/22/2007	45 - 60	water	< 10	< 5.0
	MW-2-102207	10/22/2007	45 - 60	water	< 10	< 5.0
	MW-3-102207	10/22/2007	45 - 60	water	< 10	< 5.0
	MW-3-102207-D	10/22/2007	45 - 60	water	< 10	< 5.0
	MW-4-102207	10/22/2007	43 - 48	water	-	-
	MW-5-102207	10/22/2007	69 - 74	water	< 10	< 5.0
	MW-6-102207	10/22/2007	45 - 55	water	< 10	< 5.0
	MW-7-102207	10/22/2007	50 - 65	water	< 10	< 5.0
Quality Assurance and Quality Control Samples						
	TB-100407	10/4/2007	na	water	< 10	< 0.5
	TB-100507	10/5/2007	na	water	< 10	< 0.5
	TB-100807	10/8/2007	na	water	< 10	< 0.5
	TB-100907	10/9/2007	na	water	< 10	< 0.5
	TB-101007	10/10/2007	na	water	-	-
	TB-102207	10/22/2007	na	water	< 10	< 5.0
	FB-102207	10/22/2007	na	water	**10**	**11**
ESLs				groundwater	2,500	5

Notes:

* No other VOCs were detected above their respective laboratory limits in these samples.

feet bgs = feet below ground surface

ug/l = micrograms per liter

bold indicates that the compound was detected above the laboratory reporting limit.

J = estimated value below laboratory reporting limit

"<" = not detected above the laboratory report given

"-" = ESL not established

11 boxed values exceed the respective ESL.

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Groundwater beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL

Green Highlight indicates reporting limit exceeds Tier 1 ESL

AOC 1

Table 13
Metals Detected in Groundwater Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in micrograms per liter [ug/l])

Sample Location	Sample ID	Date Sampled	Approximate Sample Depth (feet bgs)	Matrix	Total Metals (ug/l)[1] Ag	As	Ba	Be	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Sb	Se	Tl	V	Zn
Grab Groundwater Samples from Temporary Soil Borings																					
Deep Soil Contamination																					
	B25-GGW	10/8/2007	61 - 64	water	< 5	< 6.1	1,700	< 2	< 5	29	12	28	< 0.2	< 5	55	6.9	< 10	< 10	< 10	24	31
	B26-GGW	10/9/2007	50 - 53	water	< 5	100	2,700	5.3	< 5	180	850	480	< 0.2	6.1	1,400	100	< 10	< 10	< 10	460	700
	B27-GGW	10/9/2007	50 - 53	water	< 5	56	2,400	3.6	< 5	130	520	290	< 0.2	< 5	780	61	< 10	< 10	< 10	280	400
South of Former Hot Mix Asphalt Plant																					
	B28-GGW	10/4/2007	47.5 - 50.5	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B29-GGW	10/5/2007	56 - 59	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous Samples																					
Soil Borings for Groundwater Monitoring Wells																					
	MW-4-GGW	10/5/2007	36 - 40	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MW-5A-GGW	10/8/2007	65.8 - 69	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Groundwater Monitoring Wells																					
	MW-1-102207	10/22/2007	45 - 60	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MW-2-102207	10/22/2007	45 - 60	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MW-3-102207	10/22/2007	45 - 60	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MW-3-102207-D	10/22/2007	45 - 60	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MW-4-102207	10/22/2007	43 - 48	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MW-5-102207	10/22/2007	69 - 74	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MW-6-102207	10/22/2007	45 - 55	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MW-7-102207	10/22/2007	50 - 65	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quality Assurance and Quality Control Samples																					
	TB-100407	10/4/2007	na	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TB-100507	10/5/2007	na	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TB-100807	10/8/2007	na	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TB-100907	10/9/2007	na	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TB-101007	10/10/2007	na	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TB-102207	10/22/2007	na	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FB-102207	10/22/2007	na	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ESLs				groundwater	35	50	1,000	4	5	140	50	1,000	2	35	100	15	6	50	2	15	5,000
	2016 TIER 1 ESLs				0.19	10	1000	2.7	0.25	3	180	3.1	0.051	100	8.2	2.5	6	5	2	19	81

Table 13
Metals Detected in Groundwater Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in micrograms per liter [ug/l])

Sample Location	Sample ID	Date Sampled	Approximate Sample Depth (feet bgs)	Matrix	Total Metals (ug/l)[1]															
					Ag	As	Ba	Be	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Sb	Se	Tl	V	Zn

Notes:
feet bgs = feet below ground surface
ug/l = micrograms per liter
"-" = sample not analyzed
"<" = not detected above the laboratory report given
na = not applicable
bold indicates that the compound was detected above the laboratory reporting limit.
100 boxed values exceed the respective ESL.
[1] = Total metal concentrations were analyzed instead of dissolved metal concentrations due to a field oversight and use of incorrect laboratory-supplied sample containers. Dissolved metal concentrations likely would be significantly lower.

Ag = Silver	Cr = Chromium	Sb = Antimony
As = Arsenic	Cu = Copper	Se = Selenium
Ba = Barium	Hg = Mercury	Tl = Thallium
Be = Beryllium	Mo = Molybdenum	V = Vanadium
Cd = Cadmium	Ni = Nickel	Zn = Zinc
Co = Cobalt	Pb = Lead	

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Groundwater beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL
Green Highlight indicates reporting limit exceeds Tier 1 ESL

Table 14
Semi-Volatile Organic Compounds Detected in Groundwater Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample Location	Sample ID	Date Sampled	Approximate Sample Depth (feet bgs)	Matrix	SVOCs * Di-n-butylphthalate (ug/l)
Grab Groundwater Samples from Temporary Soil Borings					
Deep Soil Contamination					
	B25-GGW	10/8/2007	61 - 64	water	< 9.4
	B26-GGW	10/9/2007	50 - 53	water	< 9.4
	B27-GGW	10/9/2007	50 - 53	water	**2.8 J**
South of Former Hot Mix Asphalt Plant					
	B28-GGW	10/4/2007	47.5 - 50.5	water	-
	B29-GGW	10/5/2007	56 - 59	water	-
Miscellaneous Samples					
Soil Borings for Groundwater Monitoring Wells					
	MW-4-GGW	10/5/2007	36 - 40	water	-
	MW-5A-GGW	10/8/2007	65.8 - 69	water	-
Groundwater Monitoring Wells					
	MW-1-102207	10/22/2007	45 - 60	water	-
	MW-2-102207	10/22/2007	45 - 60	water	-
	MW-3-102207	10/22/2007	45 - 60	water	-
	MW-3-102207-D	10/22/2007	45 - 60	water	-
	MW-4-102207	10/22/2007	43 - 48	water	-
	MW-5-102207	10/22/2007	69 - 74	water	-
	MW-6-102207	10/22/2007	45 - 55	water	-
	MW-7-102207	10/22/2007	50 - 65	water	-
Quality Assurance and Quality Control Samples					
	TB-100407	10/4/2007	na	water	-
	TB-100507	10/5/2007	na	water	-
	TB-100807	10/8/2007	na	water	-
	TB-100907	10/9/2007	na	water	-
	TB-101007	10/10/2007	na	water	-
	TB-102207	10/22/2007	na	water	-
	FB-102207	10/22/2007	na	water	-
ESLs				groundwater	-

Notes:
* No other SVOCs were detected above their respective laboratory limits in any of these samples.
SVOCs = semi-volatile organic compounds
feet bgs = feet below ground surface
ug/l = micrograms per liter
"-" = sample not analyzed or no ESLs exist
J = estimated value below laboratory reporting limit
na = not applicable
bold indicates that the compound was detected above the laboratory reporting limit.
"<" = not detected above the laboratory report given
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Groundwater beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Table 15
Organochlorine Pesticides Detected in Groundwater Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample Location	Sample ID	Date Sampled	Approximate Sample Depth (feet bgs)	Matrix	Organochlorine Pesticides *
Grab Groundwater Samples from Temporary Soil Borings					
Deep Soil Contamination					
	B25-GGW	10/8/2007	61 - 64	water	ND
	B26-GGW	10/9/2007	50 - 53	water	ND
	B27-GGW	10/9/2007	50 - 53	water	ND
South of Former Hot Mix Asphalt Plant					
	B28-GGW	10/4/2007	47.5 - 50.5	water	-
	B29-GGW	10/5/2007	56 - 59	water	-
Miscellaneous Samples					
Soil Borings for Groundwater Monitoring Wells					
	MW-4-GGW	10/5/2007	36 - 40	water	-
	MW-5A-GGW	10/8/2007	65.8 - 69	water	-
Groundwater Monitoring Wells					
	MW-1-102207	10/22/2007	45 - 60	water	-
	MW-2-102207	10/22/2007	45 - 60	water	-
	MW-3-102207	10/22/2007	45 - 60	water	-
	MW-3-102207-D	10/22/2007	45 - 60	water	-
	MW-4-102207	10/22/2007	43 - 48	water	-
	MW-5-102207	10/22/2007	69 - 74	water	-
	MW-6-102207	10/22/2007	45 - 55	water	-
	MW-7-102207	10/22/2007	50 - 65	water	-
Quality Assurance and Quality Control Samples					
	TB-100407	10/4/2007	na	water	-
	TB-100507	10/5/2007	na	water	-
	TB-100807	10/8/2007	na	water	-
	TB-100907	10/9/2007	na	water	-
	TB-101007	10/10/2007	na	water	-
	TB-102207	10/22/2007	na	water	-
	FB-102207	10/22/2007	na	water	-
ESLs				groundwater	various

Notes:
* No organochlorine pesticides were detected above their respective laboratory limits in any of these samples.
feet bgs = feet below ground surface
"-" = sample not analyzed
ND = not detected
na = not applicable
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Groundwater beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Table 16
Polychlorinated Biphenyls Detected in Groundwater Samples
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample Location	Sample ID	Date Sampled	Approximate Sample Depth (feet bgs)	Matrix	PCBs *
Grab Groundwater Samples from Temporary Soil Borings					
Deep Soil Contamination					
	B25-GGW	10/8/2007	61 - 64	water	ND
	B26-GGW	10/9/2007	50 - 53	water	ND
	B27-GGW	10/9/2007	50 - 53	water	ND
Southern Portion of Plant					
	B28-GGW	10/4/2007	47.5 - 50.5	water	-
	B29-GGW	10/5/2007	56 - 59	water	-
Miscellaneous Samples					
Soil Borings for Groundwater Monitoring Wells					
	MW-4-GGW	10/5/2007	36 - 40	water	-
	MW-5A-GGW	10/8/2007	65.8 - 69	water	-
Groundwater Monitoring Wells					
	MW-1-102207	10/22/2007	45 - 60	water	-
	MW-2-102207	10/22/2007	45 - 60	water	-
	MW-3-102207	10/22/2007	45 - 60	water	-
	MW-3-102207-D	10/22/2007	45 - 60	water	-
	MW-4-102207	10/22/2007	43 - 48	water	-
	MW-5-102207	10/22/2007	69 - 74	water	-
	MW-6-102207	10/22/2007	45 - 55	water	-
	MW-7-102207	10/22/2007	50 - 65	water	-
Quality Assurance and Quality Control Samples					
	TB-100407	10/4/2007	na	water	-
	TB-100507	10/5/2007	na	water	-
	TB-100807	10/8/2007	na	water	-
	TB-100907	10/9/2007	na	water	-
	TB-101007	10/10/2007	na	water	-
	TB-102207	10/22/2007	na	water	-
	FB-102207	10/22/2007	na	water	-
ESLs				groundwater	various

Notes:
* No PCBs were detected above their respective laboratory limits in any of these samples.
PCBs = polychlorinated biphenyls
feet bgs = feet below ground surface
"-" = sample not analyzed
ND = not detected
na = not applicable
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Groundwater beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Table 3
Petroleum Hydrocarbons Detected in Soil Samples
Area of Concern #8/SS-123 Area (Legacy Partners Property)
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Total Petroleum Hydrocarbons TPHd (mg/kg)	TPHmo (mg/kg)	TPHd DI WET (ug/L)	TPHmo DI WET (ug/L)
Temporary Soil Borings									
Depth Discrete Soil Samples from Temporary Soil Borings									
	SS123(F4)	5/22/2008	5	5.5	soil	**17 Y**	**140**	-	-
	SS123(F4)	5/22/2008	12.5	13	soil	**21 Y**	**78**	-	-
	SS123(F4)	5/22/2008	17.5	18	soil	**17 Y**	**76**	< 100	< 300
	SS123(F5)	5/19/2008	4.5	5	soil	**3.7 Y**	**43**	-	-
	SS123(F5)	5/19/2008	9.5	10	soil	**62 Y**	**640**	< 100	< 300
	SS123(F5)	5/19/2008	14.5	15	soil	**17 Y**	**250**	-	-
	SS123(F5)	5/19/2008	17.5	18	soil	**76 Y b**	**1,900 b**	-	-
	SS123(F5)	5/19/2008	20.5	21	soil	**3.4 Y**	**16**	-	-
	SS123(F5)	5/19/2008	49.5	50	soil	**3.7 Y b**	**23 b**	-	-
	SS123(F5)	5/19/2008	65.5	66	soil	< 0.99	< 5	-	-
	SS123(F6)	5/22/2008	5.5	6	soil	**3.1 Y**	**17**	-	-
	SS123(F6)	5/22/2008	11.5	12	soil	< 1	< 5	-	-
	SS123(F6)	5/22/2008	16.5	17	soil	< 1	< 5	-	-
	SS123(F6)	5/22/2008	22.5	23	soil	< 0.99	< 5	-	-
	SS123(F6)	5/22/2008	26.5	27	soil	< 1	< 5	-	-
	MW-1(SS123)	5/21/2008	4.5	5	soil	**7.8 Y**	**53**	-	-
	MW-1(SS123)	5/21/2008	12.5	13	soil	- [1]	- [1]	< 100	< 300
	MW-1(SS123)	5/22/2008	49.5	50	soil	**220 Y**	**2,300**	< 50	< 300
	MW-1(SS123)	5/22/2008	62.5	63	soil	**10 Y b**	**88 b**	< 50	< 300
	MW-1(SS123)	5/22/2008	78.5	79	soil	**2.8 Y b**	**16 b**	-	-
	MW-2(SS123)	5/20/2008	4.5	5	soil	**21 Y**	**420**	-	-
	MW-2(SS123)	5/20/2008	9.5	10	soil	**23 Y**	**260**	-	-
	MW-2(SS123)	5/20/2008	13.5	14	soil	**13 Y**	**190**	< 100	< 300
	MW-2(SS123)	5/20/2008	19.5	20	soil	**27 Y**	**120**	-	-
	MW-2(SS123)	5/20/2008	64.5	65	soil	**1.2 Y b**	**6 b**	-	-
	MW-2(SS123)	5/20/2008	73.5	74	soil	< 1	< 5	-	-
	MW-2(SS123)-GGW	5/21/2008	74.5	75	water/soil [2]	**2.8 Y b**	**12 b**	-	-
	MW-2(SS123)	5/20/2008	77.5	78	soil	< 1 b	< 5 b	-	-
	MW-3(SS123)	5/22/2008	4.5	5	soil	< 0.99	< 5	-	-
	MW-3(SS123)	5/22/2008	9.5	10	soil	< 0.99	< 5	-	-
	MW-3(SS123)	5/22/2008	14.5	15	soil	< 0.99	< 5	-	-
	MW-3(SS123)	5/22/2008	19.5	20	soil	< 1	< 5	-	-
	MW-3(SS123)	5/22/2008	24.5	25	soil	-	-	-	-
	MW-3(SS123)	5/22/2008	29.5	30	soil	-	-	-	-
	MW-3(SS123)	5/22/2008	34.5	35	soil	-	-	-	-
	MW-3(SS123)	5/22/2008	41.5	42	soil	-	-	-	-
	MW-3(SS123)	5/22/2008	46.5	47	soil	-	-	-	-
	MW-3(SS123)	5/22/2008	54.5	55	soil	-	-	-	-
	MW-4(SS123)	5/22/2008	4.5	5	soil	**5.6 Y**	**51**	-	-
	MW-4(SS123)	5/22/2008	6.5	7	soil	< 1	< 5	-	-
	MW-4(SS123)	5/22/2008	11.5	12	soil	< 0.99	< 5	-	-
	MW-4(SS123)	5/22/2008	17.5	18	soil	< 1	< 5	-	-
ESLs					shallow soils or groundwater	83	2,500	100	100
					deep soils or groundwater	83	5,000	100	100
					Feb 2016 Tier 1 ESL	230	5,100		

Table 4
Petroleum Hydrocarbons and Associated Compounds Detected in Groundwater Samples
Area of Concern #8/SS-123 Area (Legacy Partners Property)
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample ID	Date Sampled	Approximate Sample Depth (feet bgs)	Matrix	Total Petroleum Hydrocarbons TPHd (ug/L)	TPHmo (ug/L)	BTEX compounds B (ug/L)	T (ug/L)	E (ug/L)	m,p-X (ug/L)	o-X (ug/L)
Temporary Soil Borings										
Grab Groundwater Samples from Temporary Soil Borings										
SS123(F4)-GGW	5/22/2008	23	water	**54 Y**	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SS123(F5)-GGW	5/19/2008	25	water	**85 Y**	< 300	< 0.5	**0.55**	< 0.5	< 0.5	< 0.5
SS123(F6)-GGW	5/23/2008	24	water	< 50	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-1(SS123)-GGW	5/21/2008	18	water	**410 Y**	**5,300**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-2(SS123)-GGW	5/20/2008	23	water	**500 Y**	**380**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-2(SS123)-GGW	5/21/2008	75	water/soil [1]	-	-	-	-	-	-	-
MW-4(SS123)-GGW	5/23/2008	24	water	< 50	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Groundwater Monitoring Well Samples		**Approximate Well Screen Interval (feet bgs)**								
MW-3(SS123)	6/5/2008	60 - 70	water	< 50	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4(SS123)	6/5/2008	18 - 28	water	< 50	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Quality Assurance and Quality Control Sample [2]										
Equipment Blank	5/21/2008	--	water	-	-	-	-	-	-	-
ESLs		groundwater (shallow or deep soils)		100	100	1	40	30	20	20
		Feb 2016 Tier 1 ESL		100	—	1	40	13	20	20

Orange highlight indicates the reported quantity exceeds Tier 1 ESL
Green Highlight indicates reporting limit exceeds Tier 1 ESL

AOC 1

Table 3
Petroleum Hydrocarbons and Associated Compounds Detected in Soil Samples Collected During Drilling in June 2008
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per kilogram [mg/kg] or micrograms per kilogram [ug/kg], as noted)

Sample Location	Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	Total Petroleum Hydrocarbons TPHd (mg/kg)	TPHmo (mg/kg)	TPHg (mg/kg)	BTEX compounds B (ug/kg)	T (ug/kg)	E (ug/kg)	m,p-X (ug/kg)	o-X (ug/kg)	Fuel Oxygenates MTBE (ug/kg)	TAME (ug/kg)	DIPE (ug/kg)	ETBE (ug/kg)	TBA (ug/kg)	Lead Scavengers EDB (ug/kg)	EDC (ug/kg)
Depth-Discrete Soil Samples from Soil Borings																				
	MW-9-27.5	6/10/2008	27	27.5	soil	**6,600 Y**	4,700	28 Y	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 25	< 1.3	< 1.3
	MW-9-33.5	6/10/2008	33	33.5	soil	67 Y	69	< 0.98	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.097	< 0.0048	< 0.0048
ESLs					deep soils	83	5,000	83	44	2,900	3,300	2,300	2,300	23	-	-	-	-	0.33	4.5
Notes:	Feb. 2016 TIER 1 ESLs					230	5100	100	44	2900	1400	2300	2300	23	–	–	–	7.5	–	–

feet bgs = feet below ground surface
mg/kg = milligrams per kilogram
ug/kg = micrograms per kilogram
TPHd = total petroleum hydrocarbons as diesel
TPHmo = total petroleum hydrocarbons as motor oil
TPHg = total petroleum hydrocarbons as gasoline
BTEX = benzene, toluene, ethylbenzene, and total xylenes
Bold indicates that the compound was detected above the laboratory reporting limit.
6,600 Y boxed values exceed the respective ESL.
"<" = not detected above the laboratory report given
"-" = sample not analyzed or no ESL exists
Y = sample exhibits chromatographic pattern that does not resemble standarc
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Deep Soils beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

B = benzene
T = toluene
E = ethylbenzene
m,p-X = m,p-xylenes
o-X = o-xylenes

MTBE = methyl tertiary-butyl ether
TAME = tert-amyl methyl ether (methyl tert-amyl ether)
DIPE = diisopropyl ether (isopropyl ether)
ETBE = ethyl tert-butyl ether
TBA = tert-butyl alcohol
EDB = 1,2-dibromoethane (ethylene dibromide)
EDC = 1,2-dichloroethane

Orange highlight indicates the reported quantity exceeds Tier 1 ESL
Green Highlight indicates reporting limit exceeds Tier 1 ESL

AOC 1

Table 4
Groundwater Monitoring Wells Analytical Results for Second Quarter 2008
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in micrograms per liter [ug/l])

Sample ID	Date Sampled	Approximate Screen Interval (feet bgs)	Matrix	Total Petroleum Hydrocarbons			BTEX compounds					Fuel Oxygenates					Lead Scavengers		SVOCs
				TPHd (ug/l)	TPHmo (ug/l)	TPHg (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	m,p-X (ug/l)	o-X (ug/l)	MTBE (ug/l)	TAME (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TBA (ug/l)	EDB (ug/l)	EDC (ug/l)	(various) (ug/l)
Groundwater Monitoring Wells																			
MW-1	6/16/2008	45 - 60	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
MW-2	6/16/2008	45 - 60	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
MW-3	6/16/2008	45 - 60	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
MW-4 [1]	6/16/2008	43 - 48	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	6/16/2008	69 - 74	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
MW-5 (Dup)	6/16/2008	69 - 74	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
MW-6	6/16/2008	45 - 55	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
MW-7	6/16/2008	50 - 65	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
MW-8	6/16/2008	51 - 61	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
MW-9	6/16/2008	42 - 52	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
MW-10	6/16/2008	44 - 54	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
Trip Blank [2]	6/16/2008	na	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ESL groundwater		100	100	100	1	40	30	20	20	5	-	-	-	-	0.05	0.5	(various)

Notes: Feb 2016 TIER 1 ESLs 100 - 100 1 40 13 20 20 5 - - - 12 - - -

feet bgs = feet below ground surface
ug/l = micrograms per liter
TPHd = total petroleum hydrocarbons as diesel
TPHmo = total petroleum hydrocarbons as motor oil
TPHg = total petroleum hydrocarbons as gasoline
BTEX = benzene, toluene, ethylbenzene, and total xylenes
SVOCs = semivolatile organic compounds
(Dup) = a duplicate sample collected immediately after primary sample was collected
"-" = sample not analyzed or no ESL exists
"<" = not detected above the laboratory report given

B = benzene
T = toluene
E = ethylbenzene
m,p-X = m,p-xylenes
o-X = o-xylenes

MTBE = methyl tertiary-butyl ether
TAME = tert-amyl methyl ether (methyl tert-amyl ether)
DIPE = diisopropyl ether (isopropyl ether)
ETBE = ethyl tert-butyl ether
TBA = tert-butyl alcohol
EDB = 1,2-dibromoethane (ethylene dibromide)
EDC = 1,2-dichloroethane

[1] No groundwater sample could be collected from well MW-4 because insufficient water was present in the well at the time of sampling.
[2] Due to a field oversight, the trip blank sample collected during this sampling event was not submitted to the laboratory for analysis
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007,
for Groundwater beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water

AOC 1

Table 5
Historical Data from Groundwater Monitoring Wells
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Monitoring Well ID	Approximate Screened Interval (feet bgs)	Top of Casing Elevation (feet msl)	Date	Depth to Groundwater Measured on 6/16/08 (feet TOC)	Groundwater Elevation Measured on 6/16/08 (feet msl)	TPHd (ug/l)	TPHmo (ug/l)	TPHg (ug/l)	BTEX (ug/l)	Fuel Ox (ug/l)	Lead Scav (ug/l)	SVOCs (ug/l)
MW-1	45 - 60	374.67	10/22/07	57.22	317.45	< 50	< 300	< 50	ND	ND	ND	-
			6/16/08	57.35	317.32	< 50	< 300	< 50	ND	ND	ND	ND
MW-2	45 - 60	376.33	10/22/07	55.24	321.09	< 50	< 300	< 50	ND	ND	ND	-
			6/16/08	55.39	320.94	< 50	< 300	< 50	ND	ND	ND	ND
MW-3	45 - 60	374.95	10/22/07	54.32	320.63	<50/<50	<300/<300	<50/<50	0.3J / 0.3J [1]	ND/ND	ND/ND	-
			6/16/08	54.53	320.42	< 50	< 300	< 50	ND	ND	ND	ND
MW-4	43 - 48	372.94	10/22/07	47.37	325.57	-	-	-	-	-	-	-
			6/16/08	48.77	324.17	-	-	-	-	-	-	-
MW-5	69 - 74	374.35	10/22/07	68.40	305.95	< 50	< 300	< 50	0.4J [2]	ND	ND	-
			6/16/08	70.16	304.19	<50/<50	<300/<300	<50/<50	ND	ND	ND	ND
MW-6	45 - 55	375.03	10/22/07	49.19	325.84	< 50	< 300	< 50	ND	ND	ND	-
			6/16/08	49.34	325.69	< 50	< 300	< 50	ND	ND	ND	ND
MW-7	50 - 65	377.68	10/22/07	57.04	320.64	< 50	< 300	< 50	ND	ND	ND	-
			6/16/08	57.21	320.47	< 50	< 300	< 50	ND	ND	ND	ND
MW-8	51 - 61	378.60	6/16/08	55.73	322.87	< 50	< 300	< 50	ND	ND	ND	ND
MW-9	42 - 52	375.75	6/16/08	51.48	324.27	< 50	< 300	< 50	ND	ND	ND	ND
MW-10	44 - 54	375.62	6/16/08	51.38	324.24	< 50	< 300	< 50	ND	ND	ND	ND
					ESL groundwater	100	100	100	various	various	various	various
					Feb 2016 Tier 1 ESLs	100	-	100	"	"	"	"

AOC 1

Table 5
Historical Data from Groundwater Monitoring Wells
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Monitoring Well ID	Approximate Screened Interval (feet bgs)	Top of Casing Elevation (feet msl)	Date	Depth to Groundwater Measured on 6/16/08 (feet TOC)	Groundwater Elevation Measured on 6/16/08 (feet msl)	TPHd (ug/l)	TPHmo (ug/l)	TPHg (ug/l)	BTEX (ug/l)	Fuel Ox (ug/l)	Lead Scav (ug/l)	SVOCs (ug/l)

Notes:

ID = identification; monitoring well identification numbe
ug/l = micrograms per liter
ND = not detected; no compounds were detected above their respective laboratory reporting limit
feet bgs = feet below ground surface
feet msl = feet relative to mean sea level
feet TOC = feet below top of casing
TPHd = total petroleum hydrocarbons as diesel
TPHmo = total petroleum hydrocarbons as motor oil
TPHg = total petroleum hydrocarbons as gasoline
BTEX = benzene, toluene, ethylbenzene, and total xylenes
Fuel Ox = fuel oxygenates
Lead scav = lead scavengers
SVOCs = semivolatile organic compounds
J = reported concentration is estimated below the laboratory reporting limi
"-" = sample not analyzed or no ESL exists
"<" = not detected above the laboratory report given

[1] Toluene was detected at a low concentration of 0.3 ug/l estimated below the laboratory reporting limit in both the primary and the duplicate samples collected from well MW-3 on 10/22/07.

[2] Toluene was detected at a low concentration of 0.4 ug/l estimated below the laboratory reporting limit in the sample collected from well MW-4 on 10/22/07

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007,
for Groundwater beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water

AOC 8

Table 3
Analytical Results
Area of Concern #8/SS-123 Area (Legacy Partners Property)
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Groundwater Monitoring Well	Date Sampled	Well Screen Interval (feet bgs)	Matrix	Total Petroleum Hydrocarbons TPHd (µg/L)	TPHmo (µg/L)	BTEX Compounds B (µg/L)	T (µg/L)	E (µg/L)	m,p-X (µg/L)	o-X (µg/L)
MW-3(SS123)	6/5/2008	60 - 70	water	< 50	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	9/22/2008	60 - 70	water	< 50	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	~~1/12/2009 *~~	~~60 - 70~~	~~water~~	~~410~~	~~< 500~~	~~< 0.5~~	~~< 0.5~~	~~< 0.5~~	~~< 0.5~~	~~< 0.5~~
	1/29/2009	60 - 70	water	< 50	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	3/16/2009	60 - 70	water	< 50	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-4(SS123)	6/5/2008	18 - 28	water	< 50	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	9/22/2008	18 - 28	water	< 50	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	1/12/2009	18 - 28	water	< 50	< 500	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	3/16/2009	18 - 28	water	< 50	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Quality Assurance and Quality Control Sample										
Trip Blank	9/22/2008	--	water	< 50	< 300	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ESLs				100	100	1	40	30	20	20
		2016 TIER 1 ESLs		100	—	1	40	13	20	20

Notes:

feet bgs = feet below ground surface

µg/L = micrograms per liter

TPHd = total petroleum hydrocarbons as diesel

TPHmo = total petroleum hydrocarbons as motor oil

BTEX = benzene, toluene, ethylbenzene, and total xylenes

"<" = not detected above the laboratory reporting limit given

B = benzene

T = toluene

E = ethylbenzene

m,p-X = m,p-xylenes

o-X = o-xylenes

* = Quality control and quality analysis (QA/QC) procedures indicated possible laboratory contamination was associated with the groundwater sample collected from MW-3(SS123) on January 12, 2009. As a result, another groundwater sample was collected from well MW-3(SS123) on January 29, 2009.

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, May 2008, for Groundwater beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Table 1
Petroleum Hydrocarbons and Associated Compounds Detected in Soil Samples (January 2010)
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per kilogram [mg/kg] or micrograms per kilogram [ug/kg], as noted)

Sample ID	Date Sampled	Sample Interval top (feet bgs)	Sample Interval bottom (feet bgs)	Matrix	TPHd (mg/kg)	TPHmo (mg/kg)	B (ug/kg)	T (ug/kg)	E (ug/kg)	X (ug/kg)
B36-1.5	1/26/10	1	1.5	soil	3.7	<50	<4.9	<4.9	<4.9	<9.8
B36-3	1/26/10	2.5	3	soil	1.1	<49	<4.7	5.1	<4.7	<9.4
B36-5.5	1/26/10	5	5.5	soil	1.2	<50	<4.6	<4.6	<4.6	<9.1
B36-7	1/26/10	6.5	7	soil	-	-	-	-	-	
~~B37-1.5~~	~~1/26/10~~	~~1~~	~~1.5~~	~~soil~~	~~160~~	~~290~~	~~<4.7~~	~~<4.7~~	~~<4.7~~	~~<9.4~~
B37-2.5	1/26/10	2	2.5	soil	<0.99	<50	<4.7	<4.7	<4.7	<9.4
B37-5.5	1/26/10	5	5.5	soil	3.6	<50	<5	<5	<5	<9.9
B37-8	1/26/10	7.5	8	soil	-	-	-	-	-	
B38-1.5	1/26/10	1	1.5	soil	4.2	<50	<4.6	<4.6	<4.6	<9.1
B38-3	1/26/10	2.5	3	soil	2.2	<50	<4.2	<4.2	<4.2	<8.4
B38-5.5	1/26/10	5	5.5	soil	<1	<50	<4.6	<4.6	<4.6	<9.3
B38-7.5	1/26/10	7	7.5	soil	-	-	-	-	-	
~~B39-1.5~~	~~1/26/10~~	~~1~~	~~1.5~~	~~soil~~	~~<1~~	~~<50~~	~~<4.5~~	~~<4.5~~	~~<4.5~~	~~<8.9~~
~~B39-3~~	~~1/26/10~~	~~2.5~~	~~3~~	~~soil~~	~~920~~	~~2,600~~	~~<4.4~~	~~<4.4~~	~~<4.5~~	~~<8.8~~
~~B39-5.5~~	~~1/26/10~~	~~5~~	~~5.5~~	~~soil~~	~~42~~	~~220~~	~~<4.7~~	~~<4.7~~	~~<4.7~~	~~<9.4~~
B39-7	1/26/10	6.5	7	soil	-	-	-	-	-	
~~B40-1.5~~	~~1/25/10~~	~~1~~	~~1.5~~	~~soil~~	~~8.4~~	~~<50~~	~~<4.3~~	~~<4.3~~	~~<4.3~~	~~<8.7~~
~~B40-3~~	~~1/25/10~~	~~2.5~~	~~3~~	~~soil~~	~~<1~~	~~<50~~	~~<4.8~~	~~<4.8~~	~~<4.8~~	~~<9.6~~
~~B40-5.5~~	~~1/25/10~~	~~5~~	~~5.5~~	~~soil~~	~~450~~	~~960~~	~~<4.7~~	~~<4.7~~	~~<4.7~~	~~<9.4~~
B40-10.5	1/25/10	10	10.5	soil	-	-	-	-	-	
B41-1.5	1/26/10	1	1.5	soil	1.3	<50	<4.6	<4.6	<4.6	<9.2
B41-3	1/26/10	2.5	3	soil	<1	<50	<4.5	<4.5	<4.5	<9.0
B41-5.5	1/26/10	5	5.5	soil	<0.99	<49	<4.6	<4.6	<4.6	<9.1
B41-7	1/26/10	6.5	7	soil	-	-	-	-	-	
ESLs		shallow soils (less than 3 meters)			83	2,500	44	2,900	3,300	2,300
Notes:		Feb 2016 TIER 1 ESLs			230	5100	44	2900	1400	2300

feet bgs = feet below ground surface
mg/kg = milligrams per kilogram
ug/kg = micrograms per kilogram
TPHd = total petroleum hydrocarbons as diesel
TPHmo = total petroleum hydrocarbons as motor oil
B = benzene
T = toluene
E = ethylbenzene
X = total xylenes
bold indicates that the compound was detected above the laboratory reporting limit.
83 Y boxed values exceed the respective ESL.
"<" = not detected above the laboratory report given
"-" = sample not analyzed
ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, May 2008, for Shallow Soils beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Orange highlight indicates the reported quantity exceeds Tier 1 ESL
Green Highlight indicates reporting limit exceeds Tier 1 ESL

APPENDIX C

On-Site Production Well Analytical Laboratory Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-139961-1
Client Project/Site: W-1

For:
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, California 94596

Attn: Jim Green

Beth Riley

Authorized for release by:
4/5/2016 2:07:27 PM

Beth Riley, Project Manager II
(714)258-8610
beth.riley@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: W-1

TestAmerica Job ID: 440-139961-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-139961-1	W-1	Water	03/03/16 11:30	03/04/16 07:15

Job ID: 440-139961-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-139961-1

Comments
No additional comments.

Receipt
The samples were received on 3/4/2016 7:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.6º C and 1.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 549.2: The matrix spike (MS) recovery for preparation batch 440-315778 and analytical batch 440-316007 was outside control limits. Sample matrix interference is suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries were within acceptance limits.

Method(s) 548.1: The matrix spike (MS) recovery for preparation batch 440-315807 and analytical batch 440-316006 was outside control limits. Sample matrix interference is suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries were within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-315592 and analytical batch 440-315710. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin
Method(s) 1613B: EPA Method 1613B specifies a +/- 15 second retention time difference between the recovery standard in the initial calibration (ICAL) and the continuing calibration verification (CCV). The 13C-1,2,3,4-TCDD associated with the following samples run on instrument 3D5 exceeded this criteria: W-1 (440-139961-1), (CCV 320-102779/13), (LCS 320-102543/2-A), (LCSD 320-102543/3-A) and (MB 320-102543/1-A). This retention time shift is due to normal and reasonable column maintenance and does not affect the instrument chromatography resolution, sensitivity, or identification of target analytes. System retention times have been updated for proper analyte identification.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

RAD
Method(s) 900.0: Gross Alpha/Beta Prep Batch 160-239598:
The gross alpha detection goal was not met for the following samples due to a reduction of the sample size attributed to high residual mass: W-1 (440-139961-1) and (440-139914-A-1-A). Analytical results are reported with the detection limit achieved.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Job ID: 440-139961-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

Method(s) 200.7 Rev 4.4: The method blank for preparation batch 440-315798 and analytical batch 440-316206 contained Silica above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.W-1 (440-139961-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Biology
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract non-Sister
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Dioxin Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos in DW: This method was subcontracted to LA Testing. The subcontract laboratory certification is different from that of the facility issuing the final report.

Client Sample ID: W-1

Date Collected: 03/03/16 11:30
Date Received: 03/04/16 07:15

Lab Sample ID: 440-139961-1

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/11/16 23:34	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/11/16 23:34	1
1,1,2-Trichloroethane	ND		0.50	0.20	ug/L			03/11/16 23:34	1
1,1-Dichloroethane	ND		0.50	0.20	ug/L			03/11/16 23:34	1
1,1-Dichloroethene	ND		0.50	0.20	ug/L			03/11/16 23:34	1
1,2,4-Trichlorobenzene	ND		0.50	0.20	ug/L			03/11/16 23:34	1
1,2-Dichlorobenzene	ND		0.50	0.20	ug/L			03/11/16 23:34	1
1,2-Dichloroethane	ND		0.50	0.20	ug/L			03/11/16 23:34	1
1,2-Dichloropropane	ND		0.50	0.20	ug/L			03/11/16 23:34	1
1,3-Dichloropropene, Total	ND		0.50	0.20	ug/L			03/11/16 23:34	1
1,4-Dichlorobenzene	ND		0.50	0.20	ug/L			03/11/16 23:34	1
Benzene	ND		0.50	0.20	ug/L			03/11/16 23:34	1
Bromodichloromethane	ND		1.0	0.20	ug/L			03/11/16 23:34	1
Bromoform	ND		1.0	0.20	ug/L			03/11/16 23:34	1
Carbon tetrachloride	ND		0.50	0.20	ug/L			03/11/16 23:34	1
Chlorobenzene	ND		0.50	0.20	ug/L			03/11/16 23:34	1
Chloroform	ND		1.0	0.50	ug/L			03/11/16 23:34	1
cis-1,2-Dichloroethene	ND		0.50	0.20	ug/L			03/11/16 23:34	1
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L			03/11/16 23:34	1
Dibromochloromethane	ND		1.0	0.20	ug/L			03/11/16 23:34	1
Ethylbenzene	ND		0.50	0.20	ug/L			03/11/16 23:34	1
m,p-Xylene	ND		0.50	0.20	ug/L			03/11/16 23:34	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.20	ug/L			03/11/16 23:34	1
Methylene Chloride	ND		0.50	0.40	ug/L			03/11/16 23:34	1
o-Xylene	ND		0.50	0.20	ug/L			03/11/16 23:34	1
Styrene	ND		0.50	0.20	ug/L			03/11/16 23:34	1
Tetrachloroethene	ND		0.50	0.20	ug/L			03/11/16 23:34	1
Toluene	**0.76**		0.50	0.20	ug/L			03/11/16 23:34	1
trans-1,2-Dichloroethene	ND		0.50	0.20	ug/L			03/11/16 23:34	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			03/11/16 23:34	1
Trichloroethene	ND		0.50	0.20	ug/L			03/11/16 23:34	1
Trichlorofluoromethane	ND		0.50	0.20	ug/L			03/11/16 23:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	1.0	ug/L			03/11/16 23:34	1
Trihalomethanes, Total	ND		1.0	1.0	ug/L			03/11/16 23:34	1
Vinyl chloride	ND		0.50	0.20	ug/L			03/11/16 23:34	1
Xylenes, Total	ND		0.50	0.20	ug/L			03/11/16 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*94*		*70 - 130*		*03/11/16 23:34*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*03/11/16 23:34*	*1*

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	ND		0.10	0.051	ug/L		03/08/16 12:24	03/09/16 14:55	1
Benzo[a]pyrene	ND		0.021	0.010	ug/L		03/08/16 12:24	03/09/16 14:55	1
Di (2-ethylhexyl)phthalate	ND		0.62	0.31	ug/L		03/08/16 12:24	03/09/16 14:55	1
Di(2-ethylhexyl)adipate	ND		0.62	0.31	ug/L		03/08/16 12:24	03/09/16 14:55	1
Hexachlorobenzene	ND		0.10	0.051	ug/L		03/08/16 12:24	03/09/16 14:55	1
Hexachlorocyclopentadiene	ND		0.10	0.051	ug/L		03/08/16 12:24	03/09/16 14:55	1
Molinate	ND		2.1	0.51	ug/L		03/08/16 12:24	03/09/16 14:55	1

Client Sample ID: W-1
Date Collected: 03/03/16 11:30
Date Received: 03/04/16 07:15

Lab Sample ID: 440-139961-1
Matrix: Water

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Simazine	ND		0.072	0.042	ug/L		03/08/16 12:24	03/09/16 14:55	1
Thiobencarb	ND		1.0	0.51	ug/L		03/08/16 12:24	03/09/16 14:55	1
Alachlor	ND		0.21	0.10	ug/L		03/08/16 12:24	03/09/16 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,3-Dimethyl-2-nitrobenzene	*101*		*70 - 130*	*03/08/16 12:24*	*03/09/16 14:55*	*1*
Perylene-d12	*99*		*70 - 130*	*03/08/16 12:24*	*03/09/16 14:55*	*1*
Triphenylphosphate	*102*		*70 - 130*	*03/08/16 12:24*	*03/09/16 14:55*	*1*

Method: 548.1 - Endothall (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	ND		9.0	3.8	ug/L		03/07/16 12:17	03/08/16 13:29	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50	25	ug/L			03/11/16 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*65 - 140*		*03/11/16 20:58*	*1*

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.0091	0.0037	ug/L		03/08/16 11:20	03/08/16 18:32	1
1,2-Dibromo-3-Chloropropane	ND		0.0091	0.0027	ug/L		03/08/16 11:20	03/08/16 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*50 - 150*	*03/08/16 11:20*	*03/08/16 18:32*	*1*

Method: 505 - Organochlorine Pesticides/PCBs (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	ND		0.92	0.092	ug/L		03/07/16 09:23	03/07/16 18:19	1
Arochlor 1016	ND		0.24	0.037	ug/L		03/07/16 09:23	03/07/16 18:19	1
Arochlor 1221	ND		0.17	0.083	ug/L		03/07/16 09:23	03/07/16 18:19	1
Arochlor 1232	ND		0.21	0.10	ug/L		03/07/16 09:23	03/07/16 18:19	1
Arochlor 1242	ND		0.24	0.14	ug/L		03/07/16 09:23	03/07/16 18:19	1
Arochlor 1248	ND		0.28	0.064	ug/L		03/07/16 09:23	03/07/16 18:19	1
Arochlor 1254	ND		0.30	0.046	ug/L		03/07/16 09:23	03/07/16 18:19	1
Aroclor 1260	ND		0.33	0.092	ug/L		03/07/16 09:23	03/07/16 18:19	1
Chlordane (technical)	ND		0.092	0.046	ug/L		03/07/16 09:23	03/07/16 18:19	1
Endrin	ND		0.0092	0.0046	ug/L		03/07/16 09:23	03/07/16 18:19	1
gamma-BHC (Lindane)	ND		0.18	0.0092	ug/L		03/07/16 09:23	03/07/16 18:19	1
Heptachlor	ND		0.0092	0.0046	ug/L		03/07/16 09:23	03/07/16 18:19	1
Heptachlor epoxide	ND		0.0092	0.0046	ug/L		03/07/16 09:23	03/07/16 18:19	1
Methoxychlor	ND		9.2	0.046	ug/L		03/07/16 09:23	03/07/16 18:19	1
PCBs as Decachlorobiphenyl (DCB)	ND		0.46	0.14	ug/L		03/07/16 09:23	03/07/16 18:19	1
Toxaphene	ND		0.92	0.46	ug/L		03/07/16 09:23	03/07/16 18:19	1

Method: 515.4 - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bentazon	ND		2.0	0.50	ug/L		03/11/16 13:40	03/15/16 16:35	1
2,4-D	ND		0.10	0.060	ug/L		03/11/16 13:40	03/15/16 16:35	1

Client Sample ID: W-1
Date Collected: 03/03/16 11:30
Date Received: 03/04/16 07:15

Lab Sample ID: 440-139961-1
Matrix: Water

Method: 515.4 - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dacthal acid metabolites	ND		2.0	0.20	ug/L		03/11/16 13:40	03/15/16 16:35	1
Dalapon	ND		1.0	0.40	ug/L		03/11/16 13:40	03/15/16 16:35	1
Dicamba	ND		1.5	0.20	ug/L		03/11/16 13:40	03/15/16 16:35	1
Dinoseb	ND		0.20	0.10	ug/L		03/11/16 13:40	03/15/16 16:35	1
Pentachlorophenol	ND		0.040	0.020	ug/L		03/11/16 13:40	03/15/16 16:35	1
Picloram	ND		0.10	0.050	ug/L		03/11/16 13:40	03/15/16 16:35	1
2,4,5-TP (Silvex)	ND		0.20	0.10	ug/L		03/11/16 13:40	03/15/16 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*75*		*70 - 130*	*03/11/16 13:40*	*03/15/16 16:35*	*1*

Method: 552.2 - Haloacetic Acids (HAAs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromoacetic acid	ND		1.0	0.25	ug/L		03/14/16 11:31	03/14/16 22:10	1
Dichloroacetic acid	ND		1.0	0.50	ug/L		03/14/16 11:31	03/14/16 22:10	1
Monobromoacetic acid	ND		1.0	0.50	ug/L		03/14/16 11:31	03/14/16 22:10	1
Monochloroacetic acid	**7.4**		2.0	0.75	ug/L		03/14/16 11:31	03/14/16 22:10	1
Trichloroacetic acid	ND		1.0	0.25	ug/L		03/14/16 11:31	03/14/16 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,3-Dibromopropionic acid	*85*		*70 - 130*	*03/14/16 11:31*	*03/14/16 22:10*	*1*

Method: 552.2 - Total Haloacetic Acids (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Haloacetic Acids 5	**7.4**		1.0	1.0	ug/L			03/15/16 13:32	1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		0.47	0.095	mg/L		03/05/16 15:02	03/07/16 18:49	1
C23-C40	ND		0.47	0.095	mg/L		03/05/16 15:02	03/07/16 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*80*		*45 - 120*	*03/05/16 15:02*	*03/07/16 18:49*	*1*

Method: 218.6 - Chromium, Hexavalent (Ion Chromatography)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**0.52**	**J**	1.0	0.25	ug/L			03/04/16 09:20	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.52**		0.11	0.055	mg/L			03/04/16 17:07	1
Fluoride	**0.32**	**J**	0.50	0.25	mg/L			03/04/16 17:07	1
Nitrate Nitrite as N	**0.52**		0.15	0.070	mg/L			03/04/16 17:07	1
Nitrite as N	ND		0.15	0.070	mg/L			03/04/16 17:07	1
Nitrate as NO3	**2.3**		0.50	0.25	mg/L			03/04/16 17:07	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92**	**F1**	10	5.0	mg/L			03/04/16 17:22	20
Sulfate	**64**	**F1**	10	5.0	mg/L			03/04/16 17:22	20

Client Sample ID: W-1
Date Collected: 03/03/16 11:30
Date Received: 03/04/16 07:15

Lab Sample ID: 440-139961-1
Matrix: Water

Method: 314.0 LL - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		1.0	0.50	ug/L			03/17/16 10:33	1

Method: 531.1 - Carbamate Pesticides (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Hydroxycarbofuran	ND		3.0	0.50	ug/L			03/14/16 15:01	1
Aldicarb	ND		3.0	1.0	ug/L			03/14/16 15:01	1
Aldicarb sulfone	ND		4.0	1.0	ug/L			03/14/16 15:01	1
Aldicarb sulfoxide	ND		3.0	1.0	ug/L			03/14/16 15:01	1
Carbaryl	ND		5.0	0.50	ug/L			03/14/16 15:01	1
Carbofuran	ND		0.90	0.45	ug/L			03/14/16 15:01	1
Methomyl	ND		2.0	0.50	ug/L			03/14/16 15:01	1
Oxamyl	ND		2.0	1.0	ug/L			03/14/16 15:01	1

Method: 547 - Glyphosate (DAI HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Glyphosate	ND		6.0	3.0	ug/L			03/08/16 19:16	1

Method: 549.2 - Diquat and Paraquat (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diquat	ND		0.40	0.20	ug/L		03/07/16 11:15	03/08/16 12:30	1
Paraquat	ND		20	8.0	ug/L		03/07/16 11:15	03/08/16 12:30	1

Method: 1613B - Tetra Chlorinated Dioxin (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		5.0	0.85	pg/L		03/31/16 13:30	04/01/16 19:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*66*		*31 - 137*	*03/31/16 13:30*	*04/01/16 19:56*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**0.36**	**B**	0.050	0.010	mg/L		03/07/16 11:56	03/08/16 22:15	1
Calcium	**67**	**B**	0.10	0.050	mg/L		03/07/16 11:56	03/08/16 22:15	1
Potassium	**1.8**		0.50	0.25	mg/L		03/07/16 11:56	03/08/16 22:15	1
Magnesium	**32**		0.020	0.010	mg/L		03/07/16 11:56	03/08/16 22:15	1
Sodium	**47**	**B**	0.50	0.25	mg/L		03/07/16 11:56	03/08/16 22:15	1
SiO2, Silica	**18**	**B**	0.11	0.028	mg/L		03/07/16 11:56	03/08/16 22:15	1

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:35	1
Aluminum	ND		10	5.0	ug/L		03/07/16 15:56	03/10/16 15:35	1
Arsenic	ND		1.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:35	1
Barium	**210**		1.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:35	1
Beryllium	ND		0.50	0.25	ug/L		03/07/16 15:56	03/10/16 15:35	1
Cadmium	ND		1.0	0.25	ug/L		03/07/16 15:56	03/10/16 15:35	1
Chromium	**0.98**	**J**	2.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:35	1
Copper	**1.6**	**J B**	2.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:35	1
Manganese	**2.2**		1.0	0.50	ug/L		03/14/16 12:02	03/16/16 02:34	1
Nickel	**0.84**	**J**	2.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:35	1
Lead	ND		1.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:35	1
Antimony	ND		2.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:35	1

Client Sample ID: W-1
Date Collected: 03/03/16 11:30
Date Received: 03/04/16 07:15

Lab Sample ID: 440-139961-1
Matrix: Water

Method: 200.8 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		2.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:35	1
Thallium	ND		1.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:35	1
Uranium	**0.56**	**J**	1.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:35	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		03/17/16 11:37	03/17/16 18:48	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness, as CaCO3	**300**		0.33	0.17	mg/L			03/19/16 16:26	1
Calcium hardness as calcium carbonate	**170**		0.25	0.12	mg/L			03/19/16 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	**0.37**		0.10	0.040	NTU			03/04/16 12:25	1
Total Dissolved Solids	**490**		10	5.0	mg/L			03/10/16 09:05	1
Cyanide, Total	ND		0.025	0.013	mg/L		03/07/16 23:04	03/09/16 20:28	1
Total Organic Carbon	**0.76**		0.10	0.050	mg/L			03/10/16 08:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color, Apparent	ND		1.0	1.0	Color Units			03/04/16 16:20	1
Odor	ND		1.0	1.0	T.O.N.			03/08/16 11:28	1
Alkalinity as CaCO3	**200**		4.0	4.0	mg/L			03/05/16 15:25	1
Bicarbonate Alkalinity as CaCO3	**200**		4.0	4.0	mg/L			03/05/16 15:25	1
Carbonate Alkalinity as CaCO3	ND		4.0	4.0	mg/L			03/05/16 15:25	1
Hydroxide Alkalinity as CaCO3	ND		4.0	4.0	mg/L			03/05/16 15:25	1
Specific Conductance	**760**		1.0	1.0	umhos/cm			03/17/16 07:30	1
Chlorine, Total Residual	ND	HF	0.10	0.10	mg/L			03/07/16 12:40	1
pH	**7.57**	**HF**	0.100	0.100	SU			03/07/16 13:17	1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.398	U G	2.45	2.45	3.00	4.92	pCi/L	03/08/16 14:17	03/14/16 17:58	1
Gross Beta	2.11	U	1.62	1.63	4.00	2.57	pCi/L	03/08/16 14:17	03/14/16 17:58	1

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.147**		0.0954	0.0963	1.00	0.129	pCi/L	03/07/16 15:25	03/29/16 06:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*40 - 110*	*03/07/16 15:25*	*03/29/16 06:41*	*1*

Client Sample ID: W-1
Date Collected: 03/03/16 11:30
Date Received: 03/04/16 07:15

Lab Sample ID: 440-139961-1
Matrix: Water

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0799	U	0.377	0.377	1.00	0.690	pCi/L	03/08/16 10:30	03/22/16 17:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.4*		*40 - 110*	*03/08/16 10:30*	*03/22/16 17:32*	*1*
Y Carrier	*83.4*		*40 - 110*	*03/08/16 10:30*	*03/22/16 17:32*	*1*

Method: 905 - Strontium-90 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Strontium-90	0.223	U	0.178	0.179	3.00	0.280	pCi/L	03/15/16 20:05	03/23/16 15:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Sr Carrier	*81.2*		*40 - 110*	*03/15/16 20:05*	*03/23/16 15:46*	*1*
Y Carrier	*91.6*		*40 - 110*	*03/15/16 20:05*	*03/23/16 15:46*	*1*

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	10.4	U	203	203	500	379	pCi/L	03/29/16 12:57	03/30/16 15:51	1

Method: SM 9223 - Coliforms, Total, and E.Coli (Colilert - Presence/Absence)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Escherichia coli	**absent**				NONE			03/04/16 16:52	1
Coliform, Total	**absent**				NONE			03/04/16 16:52	1

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: W-1

TestAmerica Job ID: 440-139961-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL IRV
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	TAL IRV
548.1	Endothall (GC/MS)	EPA-DW	TAL IRV
8015B	Gasoline Range Organics - (GC)	SW846	TAL IRV
504.1	EDB, DBCP and 1,2,3-TCP (GC)	EPA-DW	TAL IRV
505	Organochlorine Pesticides/PCBs (GC)	EPA	TAL IRV
515.4	Herbicides (GC)	EPA-DW	TAL IRV
552.2	Haloacetic Acids (HAAs) (GC)	EPA	TAL IRV
552.2	Total Haloacetic Acids (GC)	EPA	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
218.6	Chromium, Hexavalent (Ion Chromatography)	EPA	TAL IRV
300.0	Anions, Ion Chromatography	MCAWW	TAL IRV
314.0 LL	Perchlorate (IC)	EPA	TAL IRV
531.1	Carbamate Pesticides (HPLC)	EPA	TAL IRV
547	Glyphosate (DAI HPLC)	EPA	TAL IRV
549.2	Diquat and Paraquat (HPLC)	EPA	TAL IRV
1613B	Tetra Chlorinated Dioxin (HRGC/HRMS)	EPA	TAL SAC
200.7 Rev 4.4	Metals (ICP)	EPA	TAL IRV
200.8	Metals (ICP/MS)	EPA	TAL IRV
245.1	Mercury (CVAA)	EPA	TAL IRV
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	TAL IRV
SM 2120B	Color, Colorimetric	SM	TAL IRV
SM 2130B	Turbidity	SM	TAL IRV
SM 2150B	Odor	SM	TAL IRV
SM 2320B	Alkalinity	SM	TAL IRV
SM 2510B	Conductivity, Specific Conductance	SM	TAL IRV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
SM 4500 Cl G	Chlorine, Residual	SM	TAL IRV
SM 4500 CN E	Cyanide, Total	SM	TAL IRV
SM 4500 H+ B	pH	SM	TAL IRV
SM 5310C	TOC	SM	TAL IRV
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	TAL SL
903.0	Radium-226 (GFPC)	EPA	TAL SL
904.0	Radium-228 (GFPC)	EPA	TAL SL
905	Strontium-90 (GFPC)	EPA	TAL SL
906.0	Tritium, Total (LSC)	EPA	TAL SL
SM 9223	Coliforms, Total, and E.Coli (Colilert - Presence/Absence)	SM	TAL IRV
Asbestos in DW	General Sub Contract Method	NONE	LA Testing

Protocol References:

EPA = US Environmental Protection Agency
EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
NONE = NONE
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

LA Testing = LA Testing, 520 Mission Street, South Pasadena, CA 91030
TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022
TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600
TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: W-1

TestAmerica Job ID: 440-139961-1

Client Sample ID: W-1

Date Collected: 03/03/16 11:30
Date Received: 03/04/16 07:15

Lab Sample ID: 440-139961-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	25 mL	25 mL	316957	03/11/16 23:34	GK	TAL IRV
Total/NA	Prep	525.2			975 mL	1 mL	316054	03/08/16 12:24	AP	TAL IRV
Total/NA	Analysis	525.2		1	975 mL	1 mL	316232	03/09/16 14:55	MF	TAL IRV
Total/NA	Prep	548.1			100 mL	1.0 mL	315807	03/07/16 12:17	AK	TAL IRV
Total/NA	Analysis	548.1		1	100 mL	1.0 mL	316006	03/08/16 13:29	DD	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	316867	03/11/16 20:58	IM	TAL IRV
Total/NA	Prep	504.1			38.3 mL	2 mL	316004	03/08/16 11:20	AP	TAL IRV
Total/NA	Analysis	504.1		1	38.3 mL	2 mL	316048	03/08/16 18:32	DD	TAL IRV
Total/NA	Prep	505			38.1 mL	2.00 mL	315734	03/07/16 09:23	IVA	TAL IRV
Total/NA	Analysis	505		1	38.1 mL	2.00 mL	315756	03/07/16 18:19	DD	TAL IRV
Total/NA	Prep	515.4			49.99 mL	4.00 mL	316906	03/11/16 13:40	AK	TAL IRV
Total/NA	Analysis	515.4		1	49.99 mL	4.00 mL	317481	03/15/16 16:35	DD	TAL IRV
Total/NA	Analysis	552.2		1			317601	03/15/16 13:32	MF	TAL IRV
Total/NA	Prep	552.2			39.92 mL	4.00 mL	317296	03/14/16 11:31	AK	TAL IRV
Total/NA	Analysis	552.2		1	39.92 mL	4.00 mL	317371	03/14/16 22:10	MF	TAL IRV
Total/NA	Prep	3510C			1055 mL	1 mL	315592	03/05/16 15:02	QCT	TAL IRV
Total/NA	Analysis	8015B		1	1055 mL	1 mL	315710	03/07/16 18:49	CN	TAL IRV
Total/NA	Analysis	218.6		1	10 mL		315298	03/04/16 09:20	RW	TAL IRV
Total/NA	Analysis	300.0		1	5 mL		315398	03/04/16 17:07	NTN	TAL IRV
Total/NA	Analysis	300.0		1	5 mL		315399	03/04/16 17:07	NTN	TAL IRV
Total/NA	Analysis	300.0	DL	20	5 mL		315398	03/04/16 17:22	NTN	TAL IRV
Total/NA	Analysis	300.0	DL	20	5 mL		315399	03/04/16 17:22	NTN	TAL IRV
Total/NA	Analysis	314.0 LL		1	1 mL		318109	03/17/16 10:33	CH	TAL IRV
Total/NA	Analysis	531.1		1	1 mL		316811	03/14/16 15:01	MF	TAL IRV
Total/NA	Analysis	547		1	1 mL		316068	03/08/16 19:16	DD	TAL IRV
Total/NA	Prep	549.2			250.12 mL	5.00 mL	315778	03/07/16 11:15	AK	TAL IRV
Total/NA	Analysis	549.2		1	250.12 mL	5.00 mL	316007	03/08/16 12:30	DD	TAL IRV
Total/NA	Prep	HRMS-Sep			1057.3 mL	20 uL	105017	03/31/16 13:30	DXD	TAL SAC
Total/NA	Analysis	1613B		1	1057.3 mL	20 uL	105274	04/01/16 19:56	SMA	TAL SAC
Total Recoverable	Prep	200.2			25 mL	25 mL	315798	03/07/16 11:56	Q1N	TAL IRV
Total Recoverable	Analysis	200.7 Rev 4.4		1	25 mL	25 mL	316206	03/08/16 22:15	EN	TAL IRV
Total Recoverable	Prep	200.2			25 mL	25 mL	315881	03/07/16 15:56	Q1N	TAL IRV
Total Recoverable	Analysis	200.8		1	25 mL	25 mL	316690	03/10/16 15:35	NH	TAL IRV
Total Recoverable	Prep	200.2			25 mL	25 mL	317307	03/14/16 12:02	Q1N	TAL IRV
Total Recoverable	Analysis	200.8		1	25 mL	25 mL	317834	03/16/16 02:34	DP	TAL IRV
Total/NA	Prep	245.1			20 mL	20 mL	318195	03/17/16 11:37	DB	TAL IRV
Total/NA	Analysis	245.1		1	20 mL	20 mL	318410	03/17/16 18:48	EN	TAL IRV
Total Recoverable	Analysis	SM 2340B		1			318760	03/19/16 16:26	DP	TAL IRV
Total/NA	Analysis	SM 2120B		1	50 mL	50 mL	315513	03/04/16 16:20	ST	TAL IRV
Total/NA	Analysis	SM 2130B		1		20 mL	315446	03/04/16 12:25	AMH	TAL IRV
Total/NA	Analysis	SM 2150B		1	100 mL	100 mL	316040	03/08/16 11:28	AMH	TAL IRV
Total/NA	Analysis	SM 2320B		1			315636	03/05/16 15:25	YZ	TAL IRV

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: W-1

TestAmerica Job ID: 440-139961-1

Client Sample ID: W-1

Date Collected: 03/03/16 11:30
Date Received: 03/04/16 07:15

Lab Sample ID: 440-139961-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2510B		1			318107	03/17/16 07:30	XL	TAL IRV
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	316520	03/10/16 09:05	XL	TAL IRV
Total/NA	Analysis	SM 4500 Cl G		1			315816	03/07/16 12:40	KYP	TAL IRV
Total/NA	Prep	Distill/CN			50 mL	50 mL	315939	03/07/16 23:04	ECK	TAL IRV
Total/NA	Analysis	SM 4500 CN E		1	50 mL	50 mL	316424	03/09/16 20:28	SN	TAL IRV
Total/NA	Analysis	SM 4500 H+ B		1		50 mL	315782	03/07/16 13:17	ST	TAL IRV
Total/NA	Analysis	SM 5310C		1	100 mL	100 mL	316608	03/10/16 08:52	YZ	TAL IRV
Total/NA	Prep	Evaporation			85 mL	1.0 g	239598	03/08/16 14:17	CMT	TAL SL
Total/NA	Analysis	900.0		1	85 mL		240363	03/14/16 17:58	RTM	TAL SL
Total/NA	Prep	PrecSep-21			500.77 mL	1.0 g	239412	03/07/16 15:25	MRB	TAL SL
Total/NA	Analysis	903.0		1	500.77 mL		242768	03/29/16 06:41	RTM	TAL SL
Total/NA	Prep	PrecSep_0			500.77 mL	1.0 g	239469	03/08/16 10:30	CMC	TAL SL
Total/NA	Analysis	904.0		1	500.77 mL		241442	03/22/16 17:32	SMP	TAL SL
Total/NA	Prep	PrecSep-7			999.68 mL	1.0 g	240665	03/15/16 20:05	CMC	TAL SL
Total/NA	Analysis	905		1	999.68 mL		241800	03/23/16 15:46	ALS	TAL SL
Total/NA	Prep	LSC_Dist_Susp			100.04 mL	1.0 g	242738	03/29/16 12:57	JDL	TAL SL
Total/NA	Analysis	906.0		1	100.04 mL		243016	03/30/16 15:51	ALD	TAL SL
Total/NA	Analysis	SM 9223		1	100 mL	100 mL	316402		KRW	TAL IRV
								(Start) 03/04/16 16:52		
								(End) 03/05/16 13:14		

Laboratory References:

LA Testing = LA Testing, 520 Mission Street, South Pasadena, CA 91030

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-316957/5
Matrix: Water
Analysis Batch: 316957

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.50	0.20	ug/L			03/11/16 19:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.20	ug/L			03/11/16 19:18	1
1,1,2-Trichloroethane	ND		0.50	0.20	ug/L			03/11/16 19:18	1
1,1-Dichloroethane	ND		0.50	0.20	ug/L			03/11/16 19:18	1
1,1-Dichloroethene	ND		0.50	0.20	ug/L			03/11/16 19:18	1
1,2,4-Trichlorobenzene	ND		0.50	0.20	ug/L			03/11/16 19:18	1
1,2-Dichlorobenzene	ND		0.50	0.20	ug/L			03/11/16 19:18	1
1,2-Dichloroethane	ND		0.50	0.20	ug/L			03/11/16 19:18	1
1,2-Dichloropropane	ND		0.50	0.20	ug/L			03/11/16 19:18	1
1,3-Dichloropropene, Total	ND		0.50	0.20	ug/L			03/11/16 19:18	1
1,4-Dichlorobenzene	ND		0.50	0.20	ug/L			03/11/16 19:18	1
Benzene	ND		0.50	0.20	ug/L			03/11/16 19:18	1
Bromodichloromethane	ND		1.0	0.20	ug/L			03/11/16 19:18	1
Bromoform	ND		1.0	0.20	ug/L			03/11/16 19:18	1
Carbon tetrachloride	ND		0.50	0.20	ug/L			03/11/16 19:18	1
Chlorobenzene	ND		0.50	0.20	ug/L			03/11/16 19:18	1
Chloroform	ND		1.0	0.50	ug/L			03/11/16 19:18	1
cis-1,2-Dichloroethene	ND		0.50	0.20	ug/L			03/11/16 19:18	1
cis-1,3-Dichloropropene	ND		0.50	0.20	ug/L			03/11/16 19:18	1
Dibromochloromethane	ND		1.0	0.20	ug/L			03/11/16 19:18	1
Ethylbenzene	ND		0.50	0.20	ug/L			03/11/16 19:18	1
m,p-Xylene	ND		0.50	0.20	ug/L			03/11/16 19:18	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.20	ug/L			03/11/16 19:18	1
Methylene Chloride	ND		0.50	0.40	ug/L			03/11/16 19:18	1
o-Xylene	ND		0.50	0.20	ug/L			03/11/16 19:18	1
Styrene	ND		0.50	0.20	ug/L			03/11/16 19:18	1
Tetrachloroethene	ND		0.50	0.20	ug/L			03/11/16 19:18	1
Toluene	ND		0.50	0.20	ug/L			03/11/16 19:18	1
trans-1,2-Dichloroethene	ND		0.50	0.20	ug/L			03/11/16 19:18	1
trans-1,3-Dichloropropene	ND		0.50	0.20	ug/L			03/11/16 19:18	1
Trichloroethene	ND		0.50	0.20	ug/L			03/11/16 19:18	1
Trichlorofluoromethane	ND		0.50	0.20	ug/L			03/11/16 19:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	1.0	ug/L			03/11/16 19:18	1
Trihalomethanes, Total	ND		1.0	1.0	ug/L			03/11/16 19:18	1
Vinyl chloride	ND		0.50	0.20	ug/L			03/11/16 19:18	1
Xylenes, Total	ND		0.50	0.20	ug/L			03/11/16 19:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*92*		*70 - 130*		*03/11/16 19:18*	*1*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*03/11/16 19:18*	*1*

Lab Sample ID: LCS 440-316957/1002
Matrix: Water
Analysis Batch: 316957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	10.0	10.1		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	10.0	11.5		ug/L		115	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-316957/1002
Matrix: Water
Analysis Batch: 316957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	10.0	10.2		ug/L		102	70 - 130
1,1-Dichloroethane	10.0	9.64		ug/L		96	70 - 130
1,1-Dichloroethene	10.0	10.2		ug/L		102	70 - 130
1,2,4-Trichlorobenzene	10.0	11.3		ug/L		113	70 - 130
1,2-Dichlorobenzene	10.0	10.7		ug/L		107	70 - 130
1,2-Dichloroethane	10.0	10.4		ug/L		104	70 - 130
1,2-Dichloropropane	10.0	10.0		ug/L		100	70 - 130
1,4-Dichlorobenzene	10.0	11.0		ug/L		110	70 - 130
Benzene	10.0	9.68		ug/L		97	70 - 130
Bromodichloromethane	10.0	10.0		ug/L		100	70 - 130
Bromoform	10.0	10.7		ug/L		107	70 - 130
Carbon tetrachloride	10.0	9.83		ug/L		98	70 - 130
Chlorobenzene	10.0	11.0		ug/L		110	70 - 130
Chloroform	10.0	10.2		ug/L		102	70 - 130
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	70 - 130
cis-1,3-Dichloropropene	10.0	9.98		ug/L		100	70 - 130
Dibromochloromethane	10.0	10.5		ug/L		105	70 - 130
Ethylbenzene	10.0	10.9		ug/L		109	70 - 130
m,p-Xylene	20.0	20.6		ug/L		103	70 - 130
Methyl-t-Butyl Ether (MTBE)	20.0	20.2		ug/L		101	70 - 130
Methylene Chloride	10.0	10.8		ug/L		108	70 - 130
o-Xylene	10.0	11.3		ug/L		113	70 - 130
Styrene	10.0	9.04		ug/L		90	70 - 130
Tetrachloroethene	10.0	10.7		ug/L		107	70 - 130
Toluene	10.0	11.2		ug/L		112	70 - 130
trans-1,2-Dichloroethene	10.0	9.91		ug/L		99	70 - 130
trans-1,3-Dichloropropene	10.0	10.3		ug/L		103	70 - 130
Trichloroethene	10.0	10.6		ug/L		106	70 - 130
Trichlorofluoromethane	10.0	10.5		ug/L		105	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.0		ug/L		100	70 - 130
Vinyl chloride	10.0	9.73		ug/L		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*114*		*70 - 130*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-316054/1-A
Matrix: Water
Analysis Batch: 316232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316054

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	ND		0.10	0.050	ug/L		03/08/16 12:24	03/09/16 09:51	1
Benzo[a]pyrene	ND		0.020	0.010	ug/L		03/08/16 12:24	03/09/16 09:51	1
Di (2-ethylhexyl)phthalate	0.349	J	0.60	0.30	ug/L		03/08/16 12:24	03/09/16 09:51	1
Di(2-ethylhexyl)adipate	ND		0.60	0.30	ug/L		03/08/16 12:24	03/09/16 09:51	1

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-316054/1-A
Matrix: Water
Analysis Batch: 316232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316054

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		0.10	0.050	ug/L		03/08/16 12:24	03/09/16 09:51	1
Hexachlorocyclopentadiene	ND		0.10	0.050	ug/L		03/08/16 12:24	03/09/16 09:51	1
Molinate	ND		2.0	0.50	ug/L		03/08/16 12:24	03/09/16 09:51	1
Simazine	ND		0.070	0.041	ug/L		03/08/16 12:24	03/09/16 09:51	1
Thiobencarb	ND		1.0	0.50	ug/L		03/08/16 12:24	03/09/16 09:51	1
Alachlor	ND		0.20	0.10	ug/L		03/08/16 12:24	03/09/16 09:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,3-Dimethyl-2-nitrobenzene	*101*		*70 - 130*	*03/08/16 12:24*	*03/09/16 09:51*	*1*
Perylene-d12	*95*		*70 - 130*	*03/08/16 12:24*	*03/09/16 09:51*	*1*
Triphenylphosphate	*102*		*70 - 130*	*03/08/16 12:24*	*03/09/16 09:51*	*1*

Lab Sample ID: LCS 440-316054/2-A
Matrix: Water
Analysis Batch: 316232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316054

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	5.00	4.70		ug/L		94	70 - 130
Benzo[a]pyrene	5.00	5.14		ug/L		103	70 - 130
Di (2-ethylhexyl)phthalate	10.0	10.2		ug/L		102	70 - 130
Di(2-ethylhexyl)adipate	10.0	9.59		ug/L		96	70 - 130
Hexachlorobenzene	5.00	5.00		ug/L		100	70 - 130
Hexachlorocyclopentadiene	10.0	10.3		ug/L		103	70 - 130
Molinate	5.00	4.93		ug/L		99	70 - 130
Simazine	5.00	5.00		ug/L		100	70 - 130
Thiobencarb	5.00	4.34		ug/L		87	70 - 130
Alachlor	5.00	5.07		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,3-Dimethyl-2-nitrobenzene	*94*		*70 - 130*
Perylene-d12	*105*		*70 - 130*
Triphenylphosphate	*107*		*70 - 130*

Lab Sample ID: LCSD 440-316054/3-A
Matrix: Water
Analysis Batch: 316232

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 316054

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Atrazine	5.00	4.87		ug/L		97	70 - 130	4	30
Benzo[a]pyrene	5.00	4.85		ug/L		97	70 - 130	6	30
Di (2-ethylhexyl)phthalate	10.0	10.0		ug/L		100	70 - 130	2	30
Di(2-ethylhexyl)adipate	10.0	9.62		ug/L		96	70 - 130	0	30
Hexachlorobenzene	5.00	5.28		ug/L		106	70 - 130	6	30
Hexachlorocyclopentadiene	10.0	10.7		ug/L		107	70 - 130	4	30
Molinate	5.00	4.91		ug/L		98	70 - 130	0	30
Simazine	5.00	4.59		ug/L		92	70 - 130	9	30
Thiobencarb	5.00	4.43		ug/L		89	70 - 130	2	30
Alachlor	5.00	5.22		ug/L		104	70 - 130	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,3-Dimethyl-2-nitrobenzene	*96*		*70 - 130*
Perylene-d12	*100*		*70 - 130*
Triphenylphosphate	*106*		*70 - 130*

Method: 548.1 - Endothall (GC/MS)

Lab Sample ID: MB 440-315807/1-A
Matrix: Water
Analysis Batch: 316006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 315807

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endothall	ND		9.0	3.8	ug/L		03/07/16 12:17	03/08/16 10:33	1

Lab Sample ID: LCS 440-315807/2-A
Matrix: Water
Analysis Batch: 316006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315807

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endothall	50.0	38.3		ug/L		77	45 - 125

Lab Sample ID: LCSD 440-315807/3-A
Matrix: Water
Analysis Batch: 316006

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 315807

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endothall	50.0	37.8		ug/L		76	45 - 125	1	30

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 440-316867/21
Matrix: Water
Analysis Batch: 316867

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50	25	ug/L			03/11/16 19:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*103*		*65 - 140*		*03/11/16 19:11*	*1*

Lab Sample ID: LCS 440-316867/20
Matrix: Water
Analysis Batch: 316867

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	800	800		ug/L		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*106*		*65 - 140*

Method: 504.1 - EDB, DBCP and 1,2,3-TCP (GC)

Lab Sample ID: MB 440-316004/1-A
Matrix: Water
Analysis Batch: 316048

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316004

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.010	0.0040	ug/L		03/08/16 11:20	03/08/16 15:09	1
1,2-Dibromo-3-Chloropropane	ND		0.010	0.0030	ug/L		03/08/16 11:20	03/08/16 15:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*50 - 150*	*03/08/16 11:20*	*03/08/16 15:09*	*1*

Lab Sample ID: LCS 440-316004/2-A
Matrix: Water
Analysis Batch: 316048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316004

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			0.250	0.230		ug/L		92	70 - 130		
1,2-Dibromo-3-Chloropropane			0.250	0.225		ug/L		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*50 - 150*

Lab Sample ID: LCSD 440-316004/3-A
Matrix: Water
Analysis Batch: 316048

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 316004

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane			0.250	0.229		ug/L		92	70 - 130	0	20
1,2-Dibromo-3-Chloropropane			0.250	0.222		ug/L		89	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*50 - 150*

Method: 505 - Organochlorine Pesticides/PCBs (GC)

Lab Sample ID: MB 440-315734/1-A
Matrix: Water
Analysis Batch: 315756

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 315734

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	ND		1.0	0.10	ug/L		03/07/16 09:23	03/07/16 17:06	1
Arochlor 1016	ND		0.26	0.040	ug/L		03/07/16 09:23	03/07/16 17:06	1
Arochlor 1221	ND		0.19	0.090	ug/L		03/07/16 09:23	03/07/16 17:06	1
Arochlor 1232	ND		0.23	0.11	ug/L		03/07/16 09:23	03/07/16 17:06	1
Arochlor 1242	ND		0.26	0.15	ug/L		03/07/16 09:23	03/07/16 17:06	1
Arochlor 1248	ND		0.30	0.070	ug/L		03/07/16 09:23	03/07/16 17:06	1
Arochlor 1254	ND		0.33	0.050	ug/L		03/07/16 09:23	03/07/16 17:06	1
Aroclor 1260	ND		0.36	0.10	ug/L		03/07/16 09:23	03/07/16 17:06	1
Chlordane (technical)	ND		0.10	0.050	ug/L		03/07/16 09:23	03/07/16 17:06	1
Endrin	ND		0.010	0.0050	ug/L		03/07/16 09:23	03/07/16 17:06	1
gamma-BHC (Lindane)	ND		0.20	0.010	ug/L		03/07/16 09:23	03/07/16 17:06	1
Heptachlor	ND		0.010	0.0050	ug/L		03/07/16 09:23	03/07/16 17:06	1

Method: 505 - Organochlorine Pesticides/PCBs (GC) (Continued)

Lab Sample ID: MB 440-315734/1-A
Matrix: Water
Analysis Batch: 315756

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 315734

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		0.010	0.0050	ug/L		03/07/16 09:23	03/07/16 17:06	1
Methoxychlor	ND		10	0.050	ug/L		03/07/16 09:23	03/07/16 17:06	1
PCBs as Decachlorobiphenyl (DCB)	ND		0.50	0.15	ug/L		03/07/16 09:23	03/07/16 17:06	1
Toxaphene	ND		1.0	0.50	ug/L		03/07/16 09:23	03/07/16 17:06	1

Lab Sample ID: LCS 440-315734/2-A
Matrix: Water
Analysis Batch: 315756

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alachlor	1.00	0.921	J	ug/L		92	70 - 130
Endrin	0.100	0.0860		ug/L		86	70 - 130
gamma-BHC (Lindane)	0.100	0.103	J	ug/L		103	70 - 130
Heptachlor	0.100	0.0995		ug/L		100	70 - 130
Heptachlor epoxide	0.100	0.0984		ug/L		98	70 - 130
Methoxychlor	0.500	0.456	J	ug/L		91	70 - 130

Lab Sample ID: LCS 440-315734/7-A
Matrix: Water
Analysis Batch: 315756

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arochlor 1254	1.00	1.16		ug/L		116	70 - 130

Lab Sample ID: LCSD 440-315734/3-A
Matrix: Water
Analysis Batch: 315756

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 315734

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alachlor	1.00	0.919	J	ug/L		92	70 - 130	0	20
Endrin	0.100	0.0896		ug/L		90	70 - 130	4	20
gamma-BHC (Lindane)	0.100	0.0945	J	ug/L		95	70 - 130	9	20
Heptachlor	0.100	0.0975		ug/L		97	70 - 130	2	20
Heptachlor epoxide	0.100	0.0929		ug/L		93	70 - 130	6	20
Methoxychlor	0.500	0.481	J	ug/L		96	70 - 130	6	20

Lab Sample ID: LCSD 440-315734/8-A
Matrix: Water
Analysis Batch: 315756

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 315734

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arochlor 1254	1.00	1.15		ug/L		115	70 - 130	1	20

Method: 515.4 - Herbicides (GC)

Lab Sample ID: MB 440-316906/1-A
Matrix: Water
Analysis Batch: 317481

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 316906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bentazon	ND		2.0	0.50	ug/L		03/11/16 13:40	03/15/16 14:45	1
2,4-D	ND		0.10	0.060	ug/L		03/11/16 13:40	03/15/16 14:45	1
Dacthal acid metabolites	ND		2.0	0.20	ug/L		03/11/16 13:40	03/15/16 14:45	1
Dalapon	ND		1.0	0.40	ug/L		03/11/16 13:40	03/15/16 14:45	1
Dicamba	ND		1.5	0.20	ug/L		03/11/16 13:40	03/15/16 14:45	1
Dinoseb	ND		0.20	0.10	ug/L		03/11/16 13:40	03/15/16 14:45	1
Pentachlorophenol	ND		0.040	0.020	ug/L		03/11/16 13:40	03/15/16 14:45	1
Picloram	ND		0.10	0.050	ug/L		03/11/16 13:40	03/15/16 14:45	1
2,4,5-TP (Silvex)	ND		0.20	0.10	ug/L		03/11/16 13:40	03/15/16 14:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*96*		*70 - 130*	*03/11/16 13:40*	*03/15/16 14:45*	*1*

Lab Sample ID: LCS 440-316906/2-A
Matrix: Water
Analysis Batch: 317481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 316906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bentazon	1.60	1.55	J	ug/L		97	70 - 130
2,4-D	1.60	1.53		ug/L		96	70 - 130
Dacthal acid metabolites	0.800	0.678	J	ug/L		85	70 - 130
Dalapon	1.60	1.22		ug/L		76	70 - 130
Dicamba	0.800	0.775	J	ug/L		97	70 - 130
Dinoseb	1.60	1.68		ug/L		105	70 - 130
Pentachlorophenol	0.160	0.130		ug/L		81	70 - 130
Picloram	0.800	0.720		ug/L		90	70 - 130
2,4,5-TP (Silvex)	0.400	0.347		ug/L		87	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*86*		*70 - 130*

Lab Sample ID: LCSD 440-316906/3-A
Matrix: Water
Analysis Batch: 317481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 316906

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bentazon	1.60	1.54	J	ug/L		96	70 - 130	1	20
2,4-D	1.60	1.56		ug/L		98	70 - 130	2	20
Dacthal acid metabolites	0.800	0.679	J	ug/L		85	70 - 130	0	20
Dalapon	1.60	1.25		ug/L		78	70 - 130	3	20
Dicamba	0.800	0.718	J	ug/L		90	70 - 130	8	20
Dinoseb	1.60	1.59		ug/L		99	70 - 130	6	20
Pentachlorophenol	0.160	0.131		ug/L		82	70 - 130	0	20
Picloram	0.800	0.743		ug/L		93	70 - 130	3	20
2,4,5-TP (Silvex)	0.400	0.349		ug/L		87	70 - 130	1	20

Method: 515.4 - Herbicides (GC) (Continued)

Lab Sample ID: LCSD 440-316906/3-A
Matrix: Water
Analysis Batch: 317481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 316906

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*87*		*70 - 130*

Method: 552.2 - Haloacetic Acids (HAAs) (GC)

Lab Sample ID: MB 440-317296/1-A
Matrix: Water
Analysis Batch: 317371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 317296

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromoacetic acid	ND		1.0	0.25	ug/L		03/14/16 11:31	03/14/16 21:35	1
Dichloroacetic acid	ND		1.0	0.50	ug/L		03/14/16 11:31	03/14/16 21:35	1
Total Haloacetic Acids 5	ND		1.0	1.0	ug/L		03/14/16 11:31	03/14/16 21:35	1
Monobromoacetic acid	ND		1.0	0.50	ug/L		03/14/16 11:31	03/14/16 21:35	1
Monochloroacetic acid	ND		2.0	0.75	ug/L		03/14/16 11:31	03/14/16 21:35	1
Trichloroacetic acid	ND		1.0	0.25	ug/L		03/14/16 11:31	03/14/16 21:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,3-Dibromopropionic acid	*84*		*70 - 130*	*03/14/16 11:31*	*03/14/16 21:35*	*1*

Lab Sample ID: LCS 440-317296/2-A
Matrix: Water
Analysis Batch: 317371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 317296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromoacetic acid	2.50	2.45		ug/L		98	70 - 130
Dichloroacetic acid	7.50	8.17		ug/L		109	70 - 130
Monobromoacetic acid	5.00	4.93		ug/L		99	70 - 130
Monochloroacetic acid	7.50	9.16		ug/L		122	70 - 130
Trichloroacetic acid	2.50	2.32		ug/L		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,3-Dibromopropionic acid	*93*		*70 - 130*

Lab Sample ID: LCSD 440-317296/3-A
Matrix: Water
Analysis Batch: 317371

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 317296

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromoacetic acid	2.50	2.51		ug/L		100	70 - 130	2	20
Dichloroacetic acid	7.50	7.68		ug/L		102	70 - 130	6	20
Monobromoacetic acid	5.00	4.99		ug/L		100	70 - 130	1	20
Monochloroacetic acid	7.50	9.52		ug/L		127	70 - 130	4	20
Trichloroacetic acid	2.50	2.41		ug/L		96	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,3-Dibromopropionic acid	*91*		*70 - 130*

Method: 552.2 - Haloacetic Acids (HAAs) (GC) (Continued)

Lab Sample ID: 440-139961-1 MS
Matrix: Water
Analysis Batch: 317371

Client Sample ID: W-1
Prep Type: Total/NA
Prep Batch: 317296

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromoacetic acid	ND		2.50	2.25		ug/L		90	70 - 130
Dichloroacetic acid	ND		7.50	7.14		ug/L		95	70 - 130
Monobromoacetic acid	ND		5.00	4.88		ug/L		98	70 - 130
Monochloroacetic acid	7.4		7.50	15.7		ug/L		111	70 - 130
Trichloroacetic acid	ND		2.50	2.14		ug/L		86	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,3-Dibromopropionic acid	*82*		*70 - 130*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-315592/1-A
Matrix: Water
Analysis Batch: 315710

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 315592

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		0.50	0.10	mg/L		03/05/16 15:02	03/07/16 16:50	1
C23-C40	ND		0.50	0.10	mg/L		03/05/16 15:02	03/07/16 16:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*78*		*45 - 120*	*03/05/16 15:02*	*03/07/16 16:50*	*1*

Lab Sample ID: LCS 440-315592/2-A
Matrix: Water
Analysis Batch: 315710

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315592

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28			1.00	0.962		mg/L		96	40 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*84*		*45 - 120*

Lab Sample ID: LCSD 440-315592/3-A
Matrix: Water
Analysis Batch: 315710

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 315592

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28			1.00	0.772		mg/L		77	40 - 115	22	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*73*		*45 - 120*

Method: 218.6 - Chromium, Hexavalent (Ion Chromatography)

Lab Sample ID: MB 440-315298/3
Matrix: Water
Analysis Batch: 315298

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		1.0	0.25	ug/L			03/04/16 07:46	1

Lab Sample ID: LCS 440-315298/6
Matrix: Water
Analysis Batch: 315298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	50.0	51.1		ug/L		102	90 - 110

Lab Sample ID: MRL 440-315298/4
Matrix: Water
Analysis Batch: 315298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	1.00	1.12		ug/L		112	50 - 150

Lab Sample ID: 440-139961-1 MS
Matrix: Water
Analysis Batch: 315298

Client Sample ID: W-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.52	J	50.0	49.2		ug/L		97	90 - 110

Lab Sample ID: 440-139961-1 MSD
Matrix: Water
Analysis Batch: 315298

Client Sample ID: W-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	0.52	J	50.0	49.9		ug/L		99	90 - 110	1	10

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 440-315398/4
Matrix: Water
Analysis Batch: 315398

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.11	0.055	mg/L			03/04/16 12:11	1
Nitrate Nitrite as N	ND		0.15	0.070	mg/L			03/04/16 12:11	1
Nitrite as N	ND		0.15	0.070	mg/L			03/04/16 12:11	1
Nitrate as NO3	ND		0.50	0.25	mg/L			03/04/16 12:11	1

Lab Sample ID: LCS 440-315398/2
Matrix: Water
Analysis Batch: 315398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	1.13	1.06		mg/L		94	90 - 110
Nitrite as N	1.52	1.41		mg/L		92	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 440-315398/2
Matrix: Water
Analysis Batch: 315398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as NO3	5.00	4.69		mg/L		94	90 - 110

Lab Sample ID: MB 440-315399/4
Matrix: Water
Analysis Batch: 315399

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.25	mg/L			03/04/16 12:11	1
Fluoride	ND		0.50	0.25	mg/L			03/04/16 12:11	1
Sulfate	ND		0.50	0.25	mg/L			03/04/16 12:11	1

Lab Sample ID: LCS 440-315399/2
Matrix: Water
Analysis Batch: 315399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.00	4.57		mg/L		91	90 - 110
Fluoride	5.00	4.83		mg/L		97	90 - 110
Sulfate	5.00	4.77		mg/L		95	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 440-139961-1 MS
Matrix: Water
Analysis Batch: 315398

Client Sample ID: W-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N - DL	1.2	J	11.3	10.3		mg/L		80	80 - 120
Nitrite as N - DL	ND		15.2	13.3		mg/L		88	80 - 120
Nitrate as NO3 - DL	5.5	J	50.0	45.7		mg/L		80	80 - 120

Lab Sample ID: 440-139961-1 MSD
Matrix: Water
Analysis Batch: 315398

Client Sample ID: W-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N - DL	1.2	J	11.3	10.5		mg/L		82	80 - 120	1	20
Nitrite as N - DL	ND		15.2	13.0		mg/L		86	80 - 120	3	20
Nitrate as NO3 - DL	5.5	J	50.0	46.4		mg/L		82	80 - 120	1	20

Lab Sample ID: 440-139961-1 MS
Matrix: Water
Analysis Batch: 315399

Client Sample ID: W-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL	92	F1	50.0	128	F1	mg/L		73	80 - 120
Fluoride - DL	ND		50.0	45.0		mg/L		90	80 - 120
Sulfate - DL	64	F1	50.0	102	F1	mg/L		76	80 - 120

Method: 300.0 - Anions, Ion Chromatography - DL (Continued)

Lab Sample ID: 440-139961-1 MSD — **Client Sample ID: W-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 315399

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride - DL	92	F1	50.0	128	F1	mg/L		73	80 - 120	0	20
Fluoride - DL	ND		50.0	43.3		mg/L		87	80 - 120	4	20
Sulfate - DL	64	F1	50.0	103	F1	mg/L		77	80 - 120	0	20

Method: 314.0 LL - Perchlorate (IC)

Lab Sample ID: MB 440-318109/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 318109

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	ND		1.0	0.50	ug/L			03/17/16 08:38	1

Lab Sample ID: LCS 440-318109/6 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 318109

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	25.0	24.5		ug/L		98	85 - 115

Lab Sample ID: MRL 440-318109/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 318109

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	4.00	3.74		ug/L		94	75 - 125

Lab Sample ID: 440-139961-1 MS — **Client Sample ID: W-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 318109

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perchlorate	ND		25.0	20.9		ug/L		83	80 - 120

Lab Sample ID: 440-139961-1 MSD — **Client Sample ID: W-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 318109

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perchlorate	ND		25.0	20.8		ug/L		83	80 - 120	0	20

Method: 531.1 - Carbamate Pesticides (HPLC)

Lab Sample ID: MB 440-316811/10 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 316811

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Hydroxycarbofuran	ND		3.0	0.50	ug/L			03/14/16 13:44	1

Method: 531.1 - Carbamate Pesticides (HPLC) (Continued)

Lab Sample ID: MB 440-316811/10
Matrix: Water
Analysis Batch: 316811

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldicarb	ND		3.0	1.0	ug/L			03/14/16 13:44	1
Aldicarb sulfone	ND		4.0	1.0	ug/L			03/14/16 13:44	1
Aldicarb sulfoxide	ND		3.0	1.0	ug/L			03/14/16 13:44	1
Carbaryl	ND		5.0	0.50	ug/L			03/14/16 13:44	1
Carbofuran	ND		0.90	0.45	ug/L			03/14/16 13:44	1
Methomyl	ND		2.0	0.50	ug/L			03/14/16 13:44	1
Oxamyl	ND		2.0	1.0	ug/L			03/14/16 13:44	1

Lab Sample ID: LCS 440-316811/1004
Matrix: Water
Analysis Batch: 316811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Hydroxycarbofuran	20.0	22.8		ug/L		114	80 - 120
Aldicarb	20.0	21.3		ug/L		106	80 - 120
Aldicarb sulfone	20.0	21.8		ug/L		109	80 - 120
Aldicarb sulfoxide	20.0	21.7		ug/L		109	80 - 120
Carbaryl	20.0	21.4		ug/L		107	80 - 120
Carbofuran	20.0	21.9		ug/L		109	80 - 120
Methomyl	20.0	21.5		ug/L		107	80 - 120
Oxamyl	20.0	22.0		ug/L		110	80 - 120

Lab Sample ID: LCSD 440-316811/5
Matrix: Water
Analysis Batch: 316811

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3-Hydroxycarbofuran	20.0	22.9		ug/L		115	80 - 120	0	20
Aldicarb	20.0	21.7		ug/L		109	80 - 120	2	20
Aldicarb sulfone	20.0	22.0		ug/L		110	80 - 120	1	20
Aldicarb sulfoxide	20.0	21.9		ug/L		110	80 - 120	1	20
Carbaryl	20.0	21.5		ug/L		107	80 - 120	0	20
Carbofuran	20.0	22.2		ug/L		111	80 - 120	1	20
Methomyl	20.0	21.7		ug/L		109	80 - 120	1	20
Oxamyl	20.0	22.1		ug/L		111	80 - 120	1	20

Method: 547 - Glyphosate (DAI HPLC)

Lab Sample ID: MB 440-316068/10
Matrix: Water
Analysis Batch: 316068

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Glyphosate	ND		6.0	3.0	ug/L			03/08/16 18:16	1

Method: 547 - Glyphosate (DAI HPLC) (Continued)

Lab Sample ID: LCS 440-316068/1007
Matrix: Water
Analysis Batch: 316068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Glyphosate			25.0	25.7		ug/L		103	70 - 130		

Lab Sample ID: LCSD 440-316068/8
Matrix: Water
Analysis Batch: 316068

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Glyphosate			25.0	27.9		ug/L		112	70 - 130	8	30

Lab Sample ID: 440-139961-1 MS
Matrix: Water
Analysis Batch: 316068

Client Sample ID: W-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Glyphosate	ND		25.0	26.5		ug/L		106	70 - 130		

Method: 549.2 - Diquat and Paraquat (HPLC)

Lab Sample ID: MB 440-315778/1-A
Matrix: Water
Analysis Batch: 316007

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 315778

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diquat	ND		0.40	0.20	ug/L		03/07/16 11:15	03/08/16 11:27	1
Paraquat	ND		20	8.0	ug/L		03/07/16 11:15	03/08/16 11:27	1

Lab Sample ID: LCS 440-315778/2-A
Matrix: Water
Analysis Batch: 316007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315778

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diquat			20.0	22.1		ug/L		111	70 - 130		
Paraquat			20.0	19.5	J	ug/L		98	70 - 130		

Lab Sample ID: LCSD 440-315778/3-A
Matrix: Water
Analysis Batch: 316007

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 315778

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diquat			20.0	21.7		ug/L		108	70 - 130	2	20
Paraquat			20.0	18.7	J	ug/L		94	70 - 130	4	20

Method: 1613B - Tetra Chlorinated Dioxin (HRGC/HRMS)

Lab Sample ID: MB 320-105017/1-A
Matrix: Water
Analysis Batch: 105274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105017

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		5.0	1.0	pg/L		03/31/16 13:30	04/01/16 18:02	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*59*		*31 - 137*	*03/31/16 13:30*	*04/01/16 18:02*	*1*

Lab Sample ID: LCS 320-105017/2-A
Matrix: Water
Analysis Batch: 105274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	200	240		pg/L		120	73 - 146

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*45*		*25 - 141*

Lab Sample ID: LCSD 320-105017/3-A
Matrix: Water
Analysis Batch: 105274

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 105017

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3,7,8-TCDD	200	247		pg/L		123	73 - 146	3	50

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*51*		*25 - 141*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 440-315798/1-A
Matrix: Water
Analysis Batch: 316206

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 315798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0116	J	0.050	0.010	mg/L		03/07/16 11:56	03/08/16 21:32	1
Calcium	0.0667	J	0.10	0.050	mg/L		03/07/16 11:56	03/08/16 21:32	1
Potassium	ND		0.50	0.25	mg/L		03/07/16 11:56	03/08/16 21:32	1
Magnesium	ND		0.020	0.010	mg/L		03/07/16 11:56	03/08/16 21:32	1
Sodium	0.417	J	0.50	0.25	mg/L		03/07/16 11:56	03/08/16 21:32	1
SiO2, Silica	0.183		0.11	0.028	mg/L		03/07/16 11:56	03/08/16 21:32	1

Lab Sample ID: LCS 440-315798/2-A
Matrix: Water
Analysis Batch: 316206

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 315798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.500	0.499		mg/L		100	85 - 115
Calcium	2.50	2.66		mg/L		106	85 - 115
Potassium	5.00	5.01		mg/L		100	85 - 115
Magnesium	2.50	2.59		mg/L		104	85 - 115
Sodium	5.00	5.11		mg/L		102	85 - 115

Lab Sample ID: 440-139961-1 MS
Matrix: Water
Analysis Batch: 316206

Client Sample ID: W-1
Prep Type: Total Recoverable
Prep Batch: 315798

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.36	B	0.500	0.888		mg/L		105	70 - 130
Calcium	67	B	2.50	69.8	4	mg/L		98	70 - 130
Potassium	1.8		5.00	6.58		mg/L		95	70 - 130
Magnesium	32		2.50	35.6	4	mg/L		127	70 - 130
Sodium	47	B	5.00	51.9	4	mg/L		97	70 - 130

Lab Sample ID: 440-139961-1 MSD
Matrix: Water
Analysis Batch: 316206

Client Sample ID: W-1
Prep Type: Total Recoverable
Prep Batch: 315798

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	0.36	B	0.500	0.861		mg/L		100	70 - 130	3	20
Calcium	67	B	2.50	68.8	4	mg/L		60	70 - 130	1	20
Potassium	1.8		5.00	6.57		mg/L		95	70 - 130	0	20
Magnesium	32		2.50	34.1	4	mg/L		68	70 - 130	4	20
Sodium	47	B	5.00	51.7	4	mg/L		92	70 - 130	0	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 440-315881/1-A
Matrix: Water
Analysis Batch: 316690

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 315881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		1.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:30	1
Aluminum	5.97	J	10	5.0	ug/L		03/07/16 15:56	03/10/16 15:30	1
Arsenic	ND		1.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:30	1
Barium	ND		1.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:30	1
Beryllium	ND		0.50	0.25	ug/L		03/07/16 15:56	03/10/16 15:30	1
Cadmium	ND		1.0	0.25	ug/L		03/07/16 15:56	03/10/16 15:30	1
Chromium	ND		2.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:30	1
Copper	1.86	J	2.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:30	1
Nickel	ND		2.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:30	1
Lead	ND		1.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:30	1
Antimony	ND		2.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:30	1
Selenium	ND		2.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:30	1
Thallium	ND		1.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:30	1
Uranium	ND		1.0	0.50	ug/L		03/07/16 15:56	03/10/16 15:30	1

Lab Sample ID: LCS 440-315881/2-A
Matrix: Water
Analysis Batch: 316690

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 315881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	80.0	80.0		ug/L		100	85 - 115
Aluminum	80.0	85.6		ug/L		107	85 - 115
Arsenic	80.0	79.9		ug/L		100	85 - 115
Barium	80.0	77.3		ug/L		97	85 - 115
Beryllium	80.0	80.8		ug/L		101	85 - 115
Cadmium	80.0	78.8		ug/L		98	85 - 115
Chromium	80.0	73.8		ug/L		92	85 - 115

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 440-315881/2-A
Matrix: Water
Analysis Batch: 316690

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 315881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	80.0	77.9		ug/L		97	85 - 115
Nickel	80.0	78.5		ug/L		98	85 - 115
Lead	80.0	78.7		ug/L		98	85 - 115
Antimony	80.0	79.6		ug/L		100	85 - 115
Selenium	80.0	81.0		ug/L		101	85 - 115
Thallium	80.0	79.3		ug/L		99	85 - 115
Uranium	80.0	77.7		ug/L		97	85 - 115

Lab Sample ID: 440-139961-1 MS
Matrix: Water
Analysis Batch: 316690

Client Sample ID: W-1
Prep Type: Total Recoverable
Prep Batch: 315881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	ND		80.0	78.9		ug/L		99	70 - 130
Aluminum	ND		80.0	81.8		ug/L		102	70 - 130
Arsenic	ND		80.0	80.4		ug/L		101	70 - 130
Barium	210		80.0	296		ug/L		110	70 - 130
Beryllium	ND		80.0	76.9		ug/L		96	70 - 130
Cadmium	ND		80.0	77.5		ug/L		97	70 - 130
Chromium	0.98	J	80.0	72.9		ug/L		90	70 - 130
Copper	1.6	J B	80.0	72.9		ug/L		89	70 - 130
Nickel	0.84	J	80.0	73.1		ug/L		90	70 - 130
Lead	ND		80.0	76.9		ug/L		96	70 - 130
Antimony	ND		80.0	81.3		ug/L		102	70 - 130
Selenium	ND		80.0	75.2		ug/L		94	70 - 130
Thallium	ND		80.0	77.1		ug/L		96	70 - 130
Uranium	0.56	J	80.0	80.1		ug/L		99	70 - 130

Lab Sample ID: 440-139961-1 MSD
Matrix: Water
Analysis Batch: 316690

Client Sample ID: W-1
Prep Type: Total Recoverable
Prep Batch: 315881

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		80.0	74.0		ug/L		92	70 - 130	6	20
Aluminum	ND		80.0	76.9		ug/L		96	70 - 130	6	20
Arsenic	ND		80.0	77.3		ug/L		97	70 - 130	4	20
Barium	210		80.0	279		ug/L		89	70 - 130	6	20
Beryllium	ND		80.0	73.1		ug/L		91	70 - 130	5	20
Cadmium	ND		80.0	72.3		ug/L		90	70 - 130	7	20
Chromium	0.98	J	80.0	69.2		ug/L		85	70 - 130	5	20
Copper	1.6	J B	80.0	68.4		ug/L		83	70 - 130	6	20
Nickel	0.84	J	80.0	69.8		ug/L		86	70 - 130	5	20
Lead	ND		80.0	72.6		ug/L		91	70 - 130	6	20
Antimony	ND		80.0	76.5		ug/L		96	70 - 130	6	20
Selenium	ND		80.0	72.9		ug/L		91	70 - 130	3	20
Thallium	ND		80.0	74.2		ug/L		93	70 - 130	4	20
Uranium	0.56	J	80.0	76.0		ug/L		94	70 - 130	5	20

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 440-317307/1-A
Matrix: Water
Analysis Batch: 317834

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 317307

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	ND		1.0	0.50	ug/L		03/14/16 12:02	03/16/16 01:53	1

Lab Sample ID: LCS 440-317307/2-A
Matrix: Water
Analysis Batch: 317834

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 317307

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	80.0	81.2		ug/L		102	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 440-318195/1-A
Matrix: Water
Analysis Batch: 318410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 318195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		03/17/16 11:37	03/17/16 18:10	1

Lab Sample ID: LCS 440-318195/2-A
Matrix: Water
Analysis Batch: 318410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 318195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00800	0.00784		mg/L		98	85 - 115

Method: SM 2120B - Color, Colorimetric

Lab Sample ID: 440-139961-1 DU
Matrix: Water
Analysis Batch: 315513

Client Sample ID: W-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Color, Apparent	ND		ND		Color Units		NC	20

Method: SM 2130B - Turbidity

Lab Sample ID: MB 440-315446/5
Matrix: Water
Analysis Batch: 315446

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	ND		0.10	0.040	NTU			03/04/16 12:25	1

Method: SM 2130B - Turbidity (Continued)

Lab Sample ID: 440-139961-1 DU
Matrix: Water
Analysis Batch: 315446

Client Sample ID: W-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Turbidity	0.37			0.320		NTU				14	20

Method: SM 2150B - Odor

Lab Sample ID: MB 440-316040/1
Matrix: Water
Analysis Batch: 316040

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Odor	ND		1.0	1.0	T.O.N.			03/08/16 11:28	1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 440-315636/31
Matrix: Water
Analysis Batch: 315636

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity as CaCO3	ND		4.0	4.0	mg/L			03/05/16 15:05	1
Bicarbonate Alkalinity as CaCO3	ND		4.0	4.0	mg/L			03/05/16 15:05	1
Carbonate Alkalinity as CaCO3	ND		4.0	4.0	mg/L			03/05/16 15:05	1
Hydroxide Alkalinity as CaCO3	ND		4.0	4.0	mg/L			03/05/16 15:05	1

Lab Sample ID: LCS 440-315636/30
Matrix: Water
Analysis Batch: 315636

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Alkalinity as CaCO3			74.7	72.5		mg/L		97	80 - 120		

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 440-318107/3
Matrix: Water
Analysis Batch: 318107

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			03/17/16 07:30	1

Lab Sample ID: LCS 440-318107/4
Matrix: Water
Analysis Batch: 318107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Specific Conductance			1060	1070		umhos/cm		101	90 - 110		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-316520/1
Matrix: Water
Analysis Batch: 316520

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	5.0	mg/L			03/10/16 09:05	1

Lab Sample ID: LCS 440-316520/2
Matrix: Water
Analysis Batch: 316520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			1000	1010		mg/L		101	90 - 110		

Method: SM 4500 Cl G - Chlorine, Residual

Lab Sample ID: MB 440-315816/1
Matrix: Water
Analysis Batch: 315816

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorine, Total Residual	ND		0.10	0.10	mg/L			03/07/16 12:40	1

Method: SM 4500 CN E - Cyanide, Total

Lab Sample ID: MB 440-315939/1-A
Matrix: Water
Analysis Batch: 316424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 315939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.025	0.013	mg/L		03/07/16 23:04	03/09/16 20:28	1

Lab Sample ID: LCS 440-315939/2-A
Matrix: Water
Analysis Batch: 316424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 315939

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.200	0.202		mg/L		101	90 - 110		

Lab Sample ID: 440-139961-1 MS
Matrix: Water
Analysis Batch: 316424

Client Sample ID: W-1
Prep Type: Total/NA
Prep Batch: 315939

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	ND		0.200	0.207		mg/L		103	70 - 115		

Lab Sample ID: 440-139961-1 MSD
Matrix: Water
Analysis Batch: 316424

Client Sample ID: W-1
Prep Type: Total/NA
Prep Batch: 315939

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND		0.200	0.198		mg/L		99	70 - 115	5	15

Method: SM 5310C - TOC

Lab Sample ID: MB 440-316608/7
Matrix: Water
Analysis Batch: 316608

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		0.10	0.050	mg/L			03/10/16 06:28	1

Lab Sample ID: LCS 440-316608/6
Matrix: Water
Analysis Batch: 316608

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.2		mg/L		102	90 - 110

Lab Sample ID: MRL 440-316608/3
Matrix: Water
Analysis Batch: 316608

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	0.100	0.0561	J	mg/L		56	50 - 150

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-239598/1-A
Matrix: Water
Analysis Batch: 240494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 239598

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	0.7797	U	0.736	0.741	3.00	1.17	pCi/L	03/08/16 14:17	03/15/16 14:54	1
Gross Beta	-0.08597	U	0.572	0.572	4.00	1.01	pCi/L	03/08/16 14:17	03/15/16 14:54	1

Lab Sample ID: LCS 160-239598/2-A
Matrix: Water
Analysis Batch: 240456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 239598

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Gross Alpha	50.0	50.10		7.28	3.00	2.09	pCi/L	100	73 - 133

Lab Sample ID: LCSB 160-239598/3-A
Matrix: Water
Analysis Batch: 240363

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 239598

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Gross Beta	93.2	97.39		10.3	4.00	1.06	pCi/L	105	75 - 125

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-239412/1-A
Matrix: Water
Analysis Batch: 242721

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 239412

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.009150	U	0.0336	0.0337	1.00	0.0640	pCi/L	03/07/16 15:25	03/29/16 06:33	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*107*		*40 - 110*	*03/07/16 15:25*	*03/29/16 06:33*	*1*

Lab Sample ID: LCS 160-239412/2-A
Matrix: Water
Analysis Batch: 242721

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 239412

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.2	12.99		1.26	1.00	0.0713	pCi/L	116	68 - 137		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*98.6*		*40 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-239469/1-A
Matrix: Water
Analysis Batch: 241442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 239469

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1793	U	0.192	0.193	1.00	0.314	pCi/L	03/08/16 10:30	03/22/16 17:30	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*107*		*40 - 110*	*03/08/16 10:30*	*03/22/16 17:30*	*1*
Y Carrier	*81.5*		*40 - 110*	*03/08/16 10:30*	*03/22/16 17:30*	*1*

Lab Sample ID: LCS 160-239469/2-A
Matrix: Water
Analysis Batch: 241442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 239469

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			9.26	8.404		0.979	1.00	0.345	pCi/L	91	56 - 140		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*98.6*		*40 - 110*
Y Carrier	*83.7*		*40 - 110*

Method: 905 - Strontium-90 (GFPC)

Lab Sample ID: MB 160-240665/1-A
Matrix: Water
Analysis Batch: 241800

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 240665

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Strontium-90	0.09544	U	0.173	0.173	3.00	0.294	pCi/L	03/15/16 20:05	03/23/16 13:23	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Sr Carrier	*88.2*		*40 - 110*	*03/15/16 20:05*	*03/23/16 13:23*	*1*
Y Carrier	*90.8*		*40 - 110*	*03/15/16 20:05*	*03/23/16 13:23*	*1*

Lab Sample ID: LCS 160-240665/2-A
Matrix: Water
Analysis Batch: 241800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 240665

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Strontium-90			8.69	8.800		0.923	3.00	0.320	pCi/L	101	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Sr Carrier	*85.9*		*40 - 110*
Y Carrier	*89.7*		*40 - 110*

Method: 906.0 - Tritium, Total (LSC)

Lab Sample ID: MB 160-242738/1-A
Matrix: Water
Analysis Batch: 243016

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 242738

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	39.64	U	206	206	500	376	pCi/L	03/29/16 12:57	03/30/16 13:19	1

Lab Sample ID: LCS 160-242738/2-A
Matrix: Water
Analysis Batch: 243016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 242738

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Tritium			4660	4723		708	500	369	pCi/L	101	74 - 114		

GC/MS VOA

Analysis Batch: 316957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	524.2	
LCS 440-316957/1002	Lab Control Sample	Total/NA	Water	524.2	
MB 440-316957/5	Method Blank	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 315807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	548.1	
LCS 440-315807/2-A	Lab Control Sample	Total/NA	Water	548.1	
LCSD 440-315807/3-A	Lab Control Sample Dup	Total/NA	Water	548.1	
MB 440-315807/1-A	Method Blank	Total/NA	Water	548.1	

Analysis Batch: 316006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	548.1	315807
LCS 440-315807/2-A	Lab Control Sample	Total/NA	Water	548.1	315807
LCSD 440-315807/3-A	Lab Control Sample Dup	Total/NA	Water	548.1	315807
MB 440-315807/1-A	Method Blank	Total/NA	Water	548.1	315807

Prep Batch: 316054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	525.2	
LCS 440-316054/2-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 440-316054/3-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MB 440-316054/1-A	Method Blank	Total/NA	Water	525.2	

Analysis Batch: 316232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	525.2	316054
LCS 440-316054/2-A	Lab Control Sample	Total/NA	Water	525.2	316054
LCSD 440-316054/3-A	Lab Control Sample Dup	Total/NA	Water	525.2	316054
MB 440-316054/1-A	Method Blank	Total/NA	Water	525.2	316054

GC VOA

Analysis Batch: 316867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	8015B	
LCS 440-316867/20	Lab Control Sample	Total/NA	Water	8015B	
MB 440-316867/21	Method Blank	Total/NA	Water	8015B	

GC Semi VOA

Prep Batch: 315592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	3510C	
LCS 440-315592/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-315592/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 440-315592/1-A	Method Blank	Total/NA	Water	3510C	

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: W-1

TestAmerica Job ID: 440-139961-1

Analysis Batch: 315710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	8015B	315592
LCS 440-315592/2-A	Lab Control Sample	Total/NA	Water	8015B	315592
LCSD 440-315592/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	315592
MB 440-315592/1-A	Method Blank	Total/NA	Water	8015B	315592

Prep Batch: 315734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	505	
LCS 440-315734/2-A	Lab Control Sample	Total/NA	Water	505	
LCS 440-315734/7-A	Lab Control Sample	Total/NA	Water	505	
LCSD 440-315734/3-A	Lab Control Sample Dup	Total/NA	Water	505	
LCSD 440-315734/8-A	Lab Control Sample Dup	Total/NA	Water	505	
MB 440-315734/1-A	Method Blank	Total/NA	Water	505	

Analysis Batch: 315756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	505	315734
LCS 440-315734/2-A	Lab Control Sample	Total/NA	Water	505	315734
LCS 440-315734/7-A	Lab Control Sample	Total/NA	Water	505	315734
LCSD 440-315734/3-A	Lab Control Sample Dup	Total/NA	Water	505	315734
LCSD 440-315734/8-A	Lab Control Sample Dup	Total/NA	Water	505	315734
MB 440-315734/1-A	Method Blank	Total/NA	Water	505	315734

Prep Batch: 316004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	504.1	
LCS 440-316004/2-A	Lab Control Sample	Total/NA	Water	504.1	
LCSD 440-316004/3-A	Lab Control Sample Dup	Total/NA	Water	504.1	
MB 440-316004/1-A	Method Blank	Total/NA	Water	504.1	

Analysis Batch: 316048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	504.1	316004
LCS 440-316004/2-A	Lab Control Sample	Total/NA	Water	504.1	316004
LCSD 440-316004/3-A	Lab Control Sample Dup	Total/NA	Water	504.1	316004
MB 440-316004/1-A	Method Blank	Total/NA	Water	504.1	316004

Prep Batch: 316906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	515.4	
LCS 440-316906/2-A	Lab Control Sample	Total/NA	Water	515.4	
LCSD 440-316906/3-A	Lab Control Sample Dup	Total/NA	Water	515.4	
MB 440-316906/1-A	Method Blank	Total/NA	Water	515.4	

Prep Batch: 317296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	552.2	
440-139961-1 MS	W-1	Total/NA	Water	552.2	
LCS 440-317296/2-A	Lab Control Sample	Total/NA	Water	552.2	
LCSD 440-317296/3-A	Lab Control Sample Dup	Total/NA	Water	552.2	
MB 440-317296/1-A	Method Blank	Total/NA	Water	552.2	

GC Semi VOA (Continued)

Analysis Batch: 317371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	552.2	317296
440-139961-1 MS	W-1	Total/NA	Water	552.2	317296
LCS 440-317296/2-A	Lab Control Sample	Total/NA	Water	552.2	317296
LCSD 440-317296/3-A	Lab Control Sample Dup	Total/NA	Water	552.2	317296
MB 440-317296/1-A	Method Blank	Total/NA	Water	552.2	317296

Analysis Batch: 317481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	515.4	316906
LCS 440-316906/2-A	Lab Control Sample	Total/NA	Water	515.4	316906
LCSD 440-316906/3-A	Lab Control Sample Dup	Total/NA	Water	515.4	316906
MB 440-316906/1-A	Method Blank	Total/NA	Water	515.4	316906

Analysis Batch: 317601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	552.2	

HPLC/IC

Analysis Batch: 315298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	218.6	
440-139961-1 MS	W-1	Total/NA	Water	218.6	
440-139961-1 MSD	W-1	Total/NA	Water	218.6	
LCS 440-315298/6	Lab Control Sample	Total/NA	Water	218.6	
MB 440-315298/3	Method Blank	Total/NA	Water	218.6	
MRL 440-315298/4	Lab Control Sample	Total/NA	Water	218.6	

Analysis Batch: 315398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	300.0	
440-139961-1 - DL	W-1	Total/NA	Water	300.0	
440-139961-1 MS - DL	W-1	Total/NA	Water	300.0	
440-139961-1 MSD - DL	W-1	Total/NA	Water	300.0	
LCS 440-315398/2	Lab Control Sample	Total/NA	Water	300.0	
MB 440-315398/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 315399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	300.0	
440-139961-1 - DL	W-1	Total/NA	Water	300.0	
440-139961-1 MS - DL	W-1	Total/NA	Water	300.0	
440-139961-1 MSD - DL	W-1	Total/NA	Water	300.0	
LCS 440-315399/2	Lab Control Sample	Total/NA	Water	300.0	
MB 440-315399/4	Method Blank	Total/NA	Water	300.0	

Prep Batch: 315778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	549.2	
LCS 440-315778/2-A	Lab Control Sample	Total/NA	Water	549.2	

HPLC/IC (Continued)

Prep Batch: 315778 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 440-315778/3-A	Lab Control Sample Dup	Total/NA	Water	549.2	
MB 440-315778/1-A	Method Blank	Total/NA	Water	549.2	

Analysis Batch: 316007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	549.2	315778
LCS 440-315778/2-A	Lab Control Sample	Total/NA	Water	549.2	315778
LCSD 440-315778/3-A	Lab Control Sample Dup	Total/NA	Water	549.2	315778
MB 440-315778/1-A	Method Blank	Total/NA	Water	549.2	315778

Analysis Batch: 316068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	547	
440-139961-1 MS	W-1	Total/NA	Water	547	
LCS 440-316068/1007	Lab Control Sample	Total/NA	Water	547	
LCSD 440-316068/8	Lab Control Sample Dup	Total/NA	Water	547	
MB 440-316068/10	Method Blank	Total/NA	Water	547	

Analysis Batch: 316811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	531.1	
LCS 440-316811/1004	Lab Control Sample	Total/NA	Water	531.1	
LCSD 440-316811/5	Lab Control Sample Dup	Total/NA	Water	531.1	
MB 440-316811/10	Method Blank	Total/NA	Water	531.1	

Analysis Batch: 318109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	314.0 LL	
440-139961-1 MS	W-1	Total/NA	Water	314.0 LL	
440-139961-1 MSD	W-1	Total/NA	Water	314.0 LL	
LCS 440-318109/6	Lab Control Sample	Total/NA	Water	314.0 LL	
MB 440-318109/3	Method Blank	Total/NA	Water	314.0 LL	
MRL 440-318109/5	Lab Control Sample	Total/NA	Water	314.0 LL	

Specialty Organics

Prep Batch: 105017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	HRMS-Sep	
LCS 320-105017/2-A	Lab Control Sample	Total/NA	Water	HRMS-Sep	
LCSD 320-105017/3-A	Lab Control Sample Dup	Total/NA	Water	HRMS-Sep	
MB 320-105017/1-A	Method Blank	Total/NA	Water	HRMS-Sep	

Analysis Batch: 105274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	1613B	105017
LCS 320-105017/2-A	Lab Control Sample	Total/NA	Water	1613B	105017
LCSD 320-105017/3-A	Lab Control Sample Dup	Total/NA	Water	1613B	105017
MB 320-105017/1-A	Method Blank	Total/NA	Water	1613B	105017

Metals

Prep Batch: 315798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total Recoverable	Water	200.2	
440-139961-1 MS	W-1	Total Recoverable	Water	200.2	
440-139961-1 MSD	W-1	Total Recoverable	Water	200.2	
LCS 440-315798/2-A	Lab Control Sample	Total Recoverable	Water	200.2	
MB 440-315798/1-A	Method Blank	Total Recoverable	Water	200.2	

Prep Batch: 315881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total Recoverable	Water	200.2	
440-139961-1 MS	W-1	Total Recoverable	Water	200.2	
440-139961-1 MSD	W-1	Total Recoverable	Water	200.2	
LCS 440-315881/2-A	Lab Control Sample	Total Recoverable	Water	200.2	
MB 440-315881/1-A	Method Blank	Total Recoverable	Water	200.2	

Analysis Batch: 316206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total Recoverable	Water	200.7 Rev 4.4	315798
440-139961-1 MS	W-1	Total Recoverable	Water	200.7 Rev 4.4	315798
440-139961-1 MSD	W-1	Total Recoverable	Water	200.7 Rev 4.4	315798
LCS 440-315798/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	315798
MB 440-315798/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	315798

Analysis Batch: 316690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total Recoverable	Water	200.8	315881
440-139961-1 MS	W-1	Total Recoverable	Water	200.8	315881
440-139961-1 MSD	W-1	Total Recoverable	Water	200.8	315881
LCS 440-315881/2-A	Lab Control Sample	Total Recoverable	Water	200.8	315881
MB 440-315881/1-A	Method Blank	Total Recoverable	Water	200.8	315881

Prep Batch: 317307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total Recoverable	Water	200.2	
LCS 440-317307/2-A	Lab Control Sample	Total Recoverable	Water	200.2	
MB 440-317307/1-A	Method Blank	Total Recoverable	Water	200.2	

Analysis Batch: 317834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total Recoverable	Water	200.8	317307
LCS 440-317307/2-A	Lab Control Sample	Total Recoverable	Water	200.8	317307
MB 440-317307/1-A	Method Blank	Total Recoverable	Water	200.8	317307

Prep Batch: 318195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	245.1	
LCS 440-318195/2-A	Lab Control Sample	Total/NA	Water	245.1	
MB 440-318195/1-A	Method Blank	Total/NA	Water	245.1	

Analysis Batch: 318410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	245.1	318195

Metals (Continued)

Analysis Batch: 318410 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-318195/2-A	Lab Control Sample	Total/NA	Water	245.1	318195
MB 440-318195/1-A	Method Blank	Total/NA	Water	245.1	318195

Analysis Batch: 318760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total Recoverable	Water	SM 2340B	

General Chemistry

Analysis Batch: 315446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	SM 2130B	
440-139961-1 DU	W-1	Total/NA	Water	SM 2130B	
MB 440-315446/5	Method Blank	Total/NA	Water	SM 2130B	

Analysis Batch: 315513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	SM 2120B	
440-139961-1 DU	W-1	Total/NA	Water	SM 2120B	

Analysis Batch: 315636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	SM 2320B	
LCS 440-315636/30	Lab Control Sample	Total/NA	Water	SM 2320B	
MB 440-315636/31	Method Blank	Total/NA	Water	SM 2320B	

Analysis Batch: 315782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 315816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	SM 4500 Cl G	
MB 440-315816/1	Method Blank	Total/NA	Water	SM 4500 Cl G	

Prep Batch: 315939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	Distill/CN	
440-139961-1 MS	W-1	Total/NA	Water	Distill/CN	
440-139961-1 MSD	W-1	Total/NA	Water	Distill/CN	
LCS 440-315939/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
MB 440-315939/1-A	Method Blank	Total/NA	Water	Distill/CN	

Analysis Batch: 316040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	SM 2150B	
MB 440-316040/1	Method Blank	Total/NA	Water	SM 2150B	

General Chemistry (Continued)

Analysis Batch: 316424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	SM 4500 CN E	315939
440-139961-1 MS	W-1	Total/NA	Water	SM 4500 CN E	315939
440-139961-1 MSD	W-1	Total/NA	Water	SM 4500 CN E	315939
LCS 440-315939/2-A	Lab Control Sample	Total/NA	Water	SM 4500 CN E	315939
MB 440-315939/1-A	Method Blank	Total/NA	Water	SM 4500 CN E	315939

Analysis Batch: 316520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	SM 2540C	
LCS 440-316520/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 440-316520/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 316608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	SM 5310C	
LCS 440-316608/6	Lab Control Sample	Total/NA	Water	SM 5310C	
MB 440-316608/7	Method Blank	Total/NA	Water	SM 5310C	
MRL 440-316608/3	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 318107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	SM 2510B	
LCS 440-318107/4	Lab Control Sample	Total/NA	Water	SM 2510B	
MB 440-318107/3	Method Blank	Total/NA	Water	SM 2510B	

Rad

Prep Batch: 239412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	PrecSep-21	
LCS 160-239412/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
MB 160-239412/1-A	Method Blank	Total/NA	Water	PrecSep-21	

Prep Batch: 239469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	PrecSep_0	
LCS 160-239469/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
MB 160-239469/1-A	Method Blank	Total/NA	Water	PrecSep_0	

Prep Batch: 239598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	Evaporation	
LCS 160-239598/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-239598/3-A	Lab Control Sample	Total/NA	Water	Evaporation	
MB 160-239598/1-A	Method Blank	Total/NA	Water	Evaporation	

Prep Batch: 240665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	PrecSep-7	
LCS 160-240665/2-A	Lab Control Sample	Total/NA	Water	PrecSep-7	

Rad (Continued)

Prep Batch: 240665 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-240665/1-A	Method Blank	Total/NA	Water	PrecSep-7	

Prep Batch: 242738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	LSC_Dist_Susp	
LCS 160-242738/2-A	Lab Control Sample	Total/NA	Water	LSC_Dist_Susp	
MB 160-242738/1-A	Method Blank	Total/NA	Water	LSC_Dist_Susp	

Biology

Analysis Batch: 316402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-139961-1	W-1	Total/NA	Water	SM 9223	

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: W-1

TestAmerica Job ID: 440-139961-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-16
California	LA Cty Sanitation Districts	9	10256	01-31-17 *
California	State Program	9	CA ELAP 2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-17
Hawaii	State Program	9	N/A	01-29-17
Kansas	NELAP Secondary AB	7	E-10420	07-31-16
Nevada	State Program	9	CA015312016-2	07-31-16
New Mexico	State Program	6	N/A	01-29-17
Northern Mariana Islands	State Program	9	MP0002	01-29-16 *
Oregon	NELAP	10	4028	01-29-17
USDA	Federal		P330-09-00080	07-08-18
Washington	State Program	10	C900	09-03-16

Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-17
Alaska (UST)	State Program	10	UST-055	12-18-16
Arizona	State Program	9	AZ0708	08-11-16
Arkansas DEQ	State Program	6	88-0691	06-17-16
California	State Program	9	2897	01-31-17
Colorado	State Program	8	CA00044	08-31-16
Connecticut	State Program	1	PH-0691	06-30-17
Florida	NELAP	4	E87570	06-30-16
Hawaii	State Program	9	N/A	01-31-17
Illinois	NELAP	5	200060	03-17-17
Kansas	NELAP	7	E-10375	05-31-16
Louisiana	NELAP	6	30612	06-30-16
Michigan	State Program	5	9947	01-31-18
Nevada	State Program	9	CA00044	07-31-16
New Jersey	NELAP	2	CA005	06-30-16
New York	NELAP	2	11666	04-01-16 *
Oregon	NELAP	10	4040	01-29-17
Pennsylvania	NELAP	3	68-01272	03-31-17
Texas	NELAP	6	T104704399	05-31-16
US Fish & Wildlife	Federal		LE148388-0	10-31-16
USDA	Federal		P330-11-00436	12-30-17
USEPA UCMR	Federal	1	CA00044	11-06-16
Utah	NELAP	8	QUAN1	02-28-17
Virginia	NELAP Secondary AB	3	460278	03-14-17
Washington	State Program	10	C581	05-04-16
West Virginia (DW)	State Program	3	9930C	12-31-16
Wyoming	State Program	8	8TMS-L	01-29-17

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-16

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: W-1

TestAmerica Job ID: 440-139961-1

Laboratory: TestAmerica St. Louis (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-16
Illinois	NELAP	5	003757	11-30-16
Iowa	State Program	7	373	12-01-16
Kansas	NELAP	7	E-10236	05-31-16
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	01-10-19
Louisiana	NELAP	6	04080	06-30-16 *
Louisiana (DW)	NELAP	6	LA160008	12-31-16
Maryland	State Program	3	310	09-30-16
Missouri	State Program	7	780	06-30-16
Nevada	State Program	9	MO000542016-1	07-31-16
New Jersey	NELAP	2	MO002	06-30-16
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-16
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-16
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-16
Texas	NELAP	6	T104704193-15-9	07-31-16
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542015-7	07-31-16
Virginia	NELAP	3	460230	06-14-16
Washington	State Program	10	C592	08-30-16
West Virginia DEP	State Program	3	381	08-31-16

* Certification renewal pending - certification considered valid.

LA Testing
520 Mission Street South Pasadena, CA 91030
Phone/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order ID: 321604768
Customer ID: TEST72
Customer PO: 2640470
Project ID:

Attn: Beth Riley
TestAmerica - Irvine, CA
17461 Derian Avenue
Suite 100
Irvine, CA 92614

Phone: (949) 261-1022
Fax: (949) 260-3297
Collected: 03/03/2016
Received: 03/05/2016
Analyzed: 03/17/2016

Proj: 440-139961-1

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm^2)	Area Analyzed (mm^2)	ASBESTOS				
					Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
							MFL (million fibers per liter)		
W-1 (440-139961-1) 321604768-0001	3/9/2016 09:50 AM	100	1288	0.0660	None Detected	ND	0.20	<0.20	0.00 - 0.72

Sample prepped past 48 hour hold time. UV Ozonated.

Analyst(s)
Sherrie Ahmad (1)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

Any questions please contact Jerry Drapala.

Initial report from: 03/19/2016 15:05:33

Sample collection and containers provided by the client, acceptable bottle blank level is defined as ≤0.01MFL>10um. ND=None Detected. This report relates only to those items tested. This report may not be reproduced, except in full, without written permission by LA Testing. Samples received in good condition unless otherwise noted.

Samples analyzed by LA Testing South Pasadena, CA CA ELAP 2283

HALEY & ALDRICH

Haley & Aldrich, Inc.
2033 N Main St., Ste. 309
Walnut Creek, CA 94596-7260

CHAIN OF CUSTODY RECORD

Phone (925) 949-1012
Fax (925) 979-1456
Page 1 of

4/5/2016

H&A FILE NO.	43140-000	LABORATORY	Test America, Pleasanton, Ca	DELIVERY DATE	3/3/16
PROJECT NAME	USL Pleasanton / W-1	ADDRESS	1200 Quarry Lane, 94566	TURNAROUND TIME	10- 20 days
H&A CONTACT	Jim Green	CONTACT	Beth Riley	PROJECT MANAGER	Jim Green

Sample No.	Date	Time	Depth	Type	Analysis Requested: See attached for analyses requested	Number of Containers
W-1	3/3/16	1130	–	Water	X	47

Comments (special instructions, precautions, additional method numbers, etc.)

Page 50 of 57

Sampled and Relinquished by	Received by
Sign	Sign
Print Brooke Rumley	Print Dennis Arauz
Firm H+A	Firm TA
Date 3/3/16 Time 13:15	Date 3/3/16 Time 1315
Relinquished by	**Received by**
Sign	Sign
Print T. BULLOCK	Print Stephanie Avila
Firm TA	Firm TA
Date 3/3/16 Time 14:10	Date 3/4/16 Time 7:15
Relinquished by	**Received by**
Sign	Sign
Print	Print
Firm	Firm
Date Time	Date Time

LIQUID	
VOA Vial	
Amber Glass	
Plastic Bottle	
Preservative	
Volume	

SOLID	
VOA Vial	
Amber Glass	
Clear Glass	
Preservative	
Volume	

Sampling Comments

440-139961 Chain of Custody

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

PRESERVATION KEY

A	Sample chilled	C	NaOH	E	H_2SO_4	G	Methanol
B	Sample filtered	D	HNO_3	F	HCL	H	Water/NaHSO4 (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____includes _____does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as appropriate. Laboratory should (specify if applicable)_____analyz

Required Reporting Limits and Data Quality Objectives

☐ RC-S1 ☐ S1 ☐ GW1
☐ RC-S2 ☐ S2 ☐ GW2
☐ RC-GW1 ☐ S3 ☐ GW3
☐ RC-GW2

WHITE - Laboratory **CANARY** - Project Manager **PINK** - Haley & Aldrich Laboratory **GOLDENROD** - Haley & Aldrich Contact

Form 3003 **APRIL 2004**

FedEx: 4618 8701 1374

0.8/0.4°C ; 2.0/1.8°C 15.0 13.1°C
12-57

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817

Prepared for:
Jim Green
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, CA 94596
jgreen@haleyaldrich.com

Prepared by
Date
Expiration Date
Est. Start Date

Project: W-1 *Quote Numb*

Drinking Water **TAT: 10_Days (Business Days)**

Matrix	Method	Test Description
Water	SM 5310C	TOC
Water	SM 2150B	Odor
Water	SM 2510B	Conductivity, Specific Conductance
Water	300.0	Sulfate, Chloride, Fluoride
Water	SM 2540C	Solids, Total Dissolved (TDS)
Water	SM 2320B	Alkalinity all forms as CaCO3
Water	200.7 Rev 4.4	Metals by ICP
Water	SM 2340B	Total Hardness (as CaCO3) by calculation
Water	SM 4500 H+ B	pH
Water	200.8	Metals by ICPMS
Water	300.0	Anions by IC
Water	SM 4500 CN E	Cyanide, Total
Water	245.1	Mercury (CVAA)
Water	8015B	C4-C12
Water	8015B	C13-C22/C23-C40
Water	SM 2130B	Turbidity
Water	SM 4500 Cl G	Total Residual Chlorine
Water	552.2	HAA5 - Haloacetic Acid List
Water	SM 9223	Coliforms, Total, and E.Coli (Colilert - Presence/Absence)
Water	524.2	California Regulated List - Volatile Organics
Water	504.1	504.1 Regulatory List
Water	505	505 California Regulated List
Water	515.4	515.4 California Regulated List
Water	525.2	525.2 California Regulated List
Water	531.1	531.1 California Regulated List
Water	547	Glyphosate
Water	548.1	Endothall
Water	549.2	Paraquat and Diquat
Water	SM 2120B	Apparent Color
Water	218.6	Chromium, Hexavalent (Ion Chromatography)
Water	314.0 LL	Perchlorate (IC)

Drinking Water **TAT: 20_Days (Business Days)**

Matrix	Method	Test Description
Water	900.0	Gross Alpha and Beta
Water	903.0	Radium 226
Water	904.0	Radium 228
Water	905	Stontium 90
Water	906.0	Tritium, Total (LSC)

Issued on: 2/10/2016

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817

Prepared for:
Jim Green
Haley & Aldrich, Inc.
2033 North Main Street
Suite 309
Walnut Creek, CA 94596
jgreen@haleyaldrich.com

Prepared by
Date
Expiration Dat
Est. Start Date

Project: W-1 *Quote Nur*

Drinking Water **TAT: 15_Days (Business Days)**

Matrix	Method	Test Description
Water	1613B	Tetra Chlorinated Dioxin (HRGC/HRMS)

Drinking Water **TAT: 15_Days (Business Days)**

Matrix	Method	Test Description
Water	Subcontract	Asbestos in DW

Total Drinking Water

Quote Other Charges

Description
Safe and Environmentally Responsible Waste Management (per sample)

Total Other Charge

Total Other Charges

Total Analysis Charges

Grand Total for Quote 44015340

**Quoted charges do not include sales tax. Applicable sales tax will be added to invoices where required by law.

Issued on: 2/10/2016

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 440-139961-1

Login Number: 139961
List Number: 1
Creator: Avila, Stephanie 1

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 440-139961-1

Login Number: 139961
List Number: 3
Creator: Hytrek, Cheryl

List Source: TestAmerica Sacramento
List Creation: 03/05/16 02:06 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 440-139961-1

Login Number: 139961
List Number: 2
Creator: McKinney, Gerrod E

List Source: TestAmerica St. Louis
List Creation: 03/05/16 12:22 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Tracer/Carrier Summary

Client: Haley & Aldrich, Inc.
Project/Site: W-1

TestAmerica Job ID: 440-139961-1

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
440-139961-1	W-1	94.9
LCS 160-239412/2-A	Lab Control Sample	98.6
MB 160-239412/1-A	Method Blank	107

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
440-139961-1	W-1	99.4	83.4
LCS 160-239469/2-A	Lab Control Sample	98.6	83.7
MB 160-239469/1-A	Method Blank	107	81.5

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

Method: 905 - Strontium-90 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
		Sr (C)	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
440-139961-1	W-1	81.2	91.6
LCS 160-240665/2-A	Lab Control Sample	85.9	89.7
MB 160-240665/1-A	Method Blank	88.2	90.8

Tracer/Carrier Legend

Sr (C) = Sr Carrier
Y = Y Carrier

Isotope Dilution Summary

Client: Haley & Aldrich, Inc.
Project/Site: W-1

TestAmerica Job ID: 440-139961-1

Method: 1613B - Tetra Chlorinated Dioxin (HRGC/HRMS)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TCDD (31-137)
440-139961-1	W-1	66
MB 320-105017/1-A	Method Blank	59

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD

Method: 1613B - Tetra Chlorinated Dioxin (HRGC/HRMS)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TCDD (25-141)
LCS 320-105017/2-A	Lab Control Sample	45
LCSD 320-105017/3-A	Lab Control Sample Dup	51

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD