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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, Alameda County, California

> October 26, 2007 001-09567-02

Prepared for Hanson Aggregates Northern California 3000 Busch Road Pleasanton, California 94566

> Prepared by LFR Inc. 1900 Powell Street, 12th Floor Emeryville, California 94608



October 26, 2007

Mr. Jerry Wickham Alameda County Health Care Services Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Subject: 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, Alameda County, California

Dear Mr. Wickham:

The enclosed "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, Alameda County, California" ("the SI Report") was prepared by LFR Inc. (LFR) on behalf of Hanson Aggregates Northern California ("Hanson") for the Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California ("the Site"). This report presents the findings of additional subsurface investigations conducted during July 2007 by LFR to further characterize the extent of contamination in specific areas of concern (AOCs) at the Site. The scope of work for the investigations conducted was described in a work plan that was submitted to Alameda County Environmental Health (ACEH) on May 16, 2007, and was approved by ACEH on June 22, 2007.

The investigations completed during July 2007 included advancing temporary soil borings to collect depth-discrete soil samples and grab groundwater samples in AOCs #2, #3, #7, and #8, and shallow sediment samples and a composite surface-water sample from the storm-water retention pond in AOC #6. In addition, four existing groundwater monitoring wells were located, purged, and sampled. This report includes an overview of environmental conditions, a summary of previous investigations conducted by LFR and other consultants, and a description of the field investigations completed during July 2007, and presents and discusses the results of the investigations.

As required, this report will be submitted electronically via the Alameda County Environmental Cleanup Oversight Program FTP website, and via the Regional Water Quality Control Board's Geotracker electronic submittal system.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report are true and correct to the best of my knowledge. If you have any questions or comments concerning this SI Report, please call me at (925) 426-4170 or Katrin Schliewen of LFR at (510) 652-4500.

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, Alameda County, California October 26, 2007 Page 2 of 2

Sincerely,

Lee W. an

Lee W. Cover Environmental Manager Hanson Aggregates Northern California

Attachment



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CERTIFICATIONS

LFR Inc. has prepared this Site Investigation Report on behalf of Hanson Aggregates Northern California in a manner consistent with the level of care and skill ordinarily exercised by professional geologists and environmental scientists. This report was prepared under the technical direction of the undersigned California Professional Geologist.



Katrin M. Schliewen, P.G. Senior Hydrogeologist California Professional Geologist No. 7808

RC

October 26, 2007

Ron Goloubow Senior Associate Geologist

Date

Date

EXECUTIVE SUMMARY

This Site Investigation Report presents the findings of the additional investigations conducted at the Hanson Aggregates Radum Facility ("the Site") during July 2007. The purpose of the investigations was to further characterize the extent of affected soil and groundwater in areas of concern (AOCs) #2, #4, #6, #7, and #8. The environmental investigations were conducted according to the scope of work described in the May 16, 2007 "Work Plan for Additional Site Characterization at the Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California," which was submitted to Alameda County Environmental Health (ACEH) and subsequently approved by ACEH on June 22, 2007, with certain modifications. Additional investigations are currently being conducted at AOC #1 (the former hot mix asphalt plant; ACEH Case Number RO0002941) under a separate scope of work, and the results of that investigation will be submitted to ACEH under separate cover on November 30, 2007.

The July 2007 investigations consisted of advancing a total of 16 temporary soil borings to depths ranging from approximately from 10 to 70 feet below ground surface. The purposes of the soil borings were to collect soil samples for lithologic logging and to collect depth-discrete soil samples and grab groundwater samples for laboratory analyses. Shallow sediment and surface-water samples were collected from the storm water retention pond for laboratory analyses. In addition, samples were collected from four existing groundwater monitoring wells for laboratory analyses. All analytical results were compared to the Environmental Screening Levels (ESLs) for soil or water beneath commercial/industrial land use areas published by the Regional Water Quality Control Board. The investigation and analytical results are presented and discussed in this report.

The analytical results of the soil and groundwater samples collected during the recent investigations have substantiated that the primary compounds of concern in soil and groundwater at the Site are total petroleum hydrocarbons (TPH) as diesel (TPHd) and TPH as motor oil (TPHmo). With a few exceptions, no other organic compounds were detected in soil and water samples collected, including TPH as gasoline (TPHg); volatile organic compounds (VOCs); benzene, toluene, ethylbenzene, and total xylenes (BTEX); fuel oxygenates; lead scavengers; semivolatile organic compounds (SVOCs); pesticides; and polychlorinated biphenyls (PCBs).

VOCs were detected in one grab groundwater sample at concentrations below the ESLs. The metals arsenic, cobalt, and chromium were detected in several samples at concentrations that exceeded the ESLs; however, these concentrations are within ranges published for naturally occurring metals detected in soils in the San Francisco Bay Area.

Results from these investigations, evaluated in conjunction with results from previous investigations, indicate that AOCs #2, #6, and #7 have been sufficiently characterized and that no additional investigations are warranted for these areas. Additional

subsurface investigations may be required to confirm an elevated TPHmo concentration detected in a grab groundwater sample collected from one soil boring at AOC #3. However, soil and grab groundwater samples collected from nearby sample locations (at AOC #3) indicate that this area has not been significantly affected by petroleum hydrocarbons.

LFR Inc. (LFR) does recommend that additional subsurface investigations be conducted at AOC #8 (SS-123 area), to further characterize the lateral extent of petroleum-affected groundwater to the south in the SS-123 area. Previous consultants have concluded that groundwater in this area may be perched; this has not been confirmed. LFR also recommends re-sampling existing groundwater monitoring well 3S/1E 10D8, located north of Lake I, to confirm the SVOC and dissolved mercury concentrations detected in the groundwater sample collected from this well.

1.0 INTRODUCTION

This Site Investigation Report presents the results and findings of additional subsurface investigations conducted by LFR Inc. (LFR) on behalf of Hanson Aggregates Northern California ("Hanson") to confirm and further assess the extent of affected soil and groundwater in areas previously identified as areas of concern (AOCs) at the Hanson Aggregates Radum Facility, located at 3000 Busch Road, Pleasanton, California ("the Site"; Figure 1). To facilitate the investigation of environmental conditions at the Site, LFR has subdivided the approximately 1,000-acre Site into nine AOC, as illustrated on Figure 2. The scope of work for the investigations conducted at the Site was described in the "Work Plan for Additional Site Characterization at the Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California," submitted to Alameda County Environmental Health (ACEH) on May 16, 2007 ("the Work Plan"). The Work Plan was approved by ACEH on June 22, 2007, with modifications to the scope of work including advancing additional soil borings, collecting additional samples, and conducting additional analyses. ACEH is the regulatory agency overseeing the environmental characterization of the Site under ACEH case number #RO0002952 (Geotracker Global ID #SL0600101555).

In accordance with the scope of work in the Work Plan and as approved by ACEH, LFR conducted investigations that included collecting soil, sediment, surface-water, and groundwater samples at locations in the eastern portion of AOC #2 and in AOCs #3, #6, #7, and #8 (Figure 2). As described further below, no additional investigations were necessary in the western portion of AOC #2 and at AOCs #4, #5, and #9, and the report of the investigations planned to be conducted in AOC #1 (the former hot mix asphalt plant area) will be completed under a separate scope of work. In addition, in anticipation of a property transfer from Hanson to Legacy Partners ("Legacy"), LFR collected groundwater samples from existing groundwater monitoring wells owned by Alameda County Flood Control and Water Conservation District Zone 7 ("Zone 7") and located on the Site. Results for samples collected from existing groundwater monitoring wells are also presented in this report.

This report summarizes field activities performed at the Site during July 12 through 25, 2007, and presents and discusses results from these field activities. This report is organized as follows.

- Section 2.0 presents a description of the Site, the site history and potential environmental impacts, a summary of previous environmental investigations conducted at the Site, and an overview of regulatory oversight to date.
- Section 3.0 describes the methodology of the investigations conducted.
- Section 4.0 presents the results of the environmental investigations conducted to confirm or further characterize the extent of contamination previously identified in various AOCs of the Site.

- Section 5.0 describes the methodology to sample existing deep groundwater monitoring wells and presents the results of the well sampling.
- Section 6.0 presents the conclusions and recommendations developed based on the results of the environmental investigations and well sampling.
- Section 7.0 defines LFR's professional limitations.
- Section 8.0 provides a reference list of primary documents related to environmental investigations conducted at the Site to date.

2.0 SITE HISTORY OF POTENTIAL ENVIRONMENTAL IMPACTS AND PREVIOUS INVESTIGATIONS

2.1 Site Description and History

The Site is located at 3000 Busch Road, Pleasanton, California, and consists of approximately 1,050 acres located partly within the city limits of Pleasanton and partly within an unincorporated area of Alameda County (Figures 1 and 2). Approximately two-thirds of the Site consist of large ponds or lakes, namely Lake I, Lake H, and Cope Pond, created during historical aggregate mining operations (Figure 2). The remaining approximately 320 acres of the Site (generally the southern third) consist of developable land. As described in the Phase I Environmental Site Assessment (ESA) by ENV America Inc. (ENV 2006a), several buildings remain on the Site, including Hanson offices, a minimally used heavy equipment maintenance shop and two warehouses, an idle truck maintenance shop currently occupied and used by the City of Pleasanton garbage company, and several smaller structures including temporary trailers and a lube shed associated with the heavy equipment maintenance shop. Structures previously associated with the historical mining and aggregate product manufacturing, including the former hot mix asphalt and concrete batch plants, have been removed from the Site. Partial structures, including concrete foundations and miscellaneous debris, remain within the former hot mix asphalt plant area in the southwestern corner of the Site (AOC #1; Figure 2).

As described in ENV's Phase I ESA report, mining of sand and gravel in the Livermore-Amador Valley began prior to 1900. Mining operations for aggregate resources at the Site were begun in 1938 by Kaiser Sand and Gravel. Reportedly, as sections of the property were mined out, the former mining pits were used for storage and/or as disposal ponds for water (from dewatering of new pits) and fine-grained sediments (silt and sand) washed out of the aggregate material. In addition, some mining pits were likely backfilled with debris and mine waste, as is evident from debris encountered during drilling. Hanson purchased the property in 1991 and continued mining operations until 2001. Mining was discontinued at that time due to lack of available aggregate materials.

Within the former mining operations areas (e.g., the former hot mix asphalt and concrete batch plants), several former underground storage tanks (USTs) were used to store fuel products, including gasoline, diesel, or used or new motor oil. As described below, historical mining and aggregate processing operations at the Site (in particular in the former hot mix asphalt plant area) have resulted in localized petroleum hydrocarbon-affected soil and groundwater beneath the Site.

2.2 Regional and Site Geology and Hydrogeology

2.2.1 Regional Geology and Hydrogeology

The regional geology and hydrogeology summarized in this section are based on information provided in the most recent Zone 7 Annual Report for the Groundwater Management Program (Zone 7 2007). The Hanson Radum property is located in the Livermore-Amador Valley, an east-west trending valley surrounded by north-south trending faults and hills that are part of the Diablo Range. The Site lies within the Main Basin of the Livermore-Amador Valley Groundwater Basin and, more specifically, within the Amador Sub-Basin (Zone 7 2007).

The regional geology consists primarily of alluvial deposits (fan, stream, and lake) that range in thickness from a few feet at the margins to almost 800 feet in the west-central portions of the valley (Zone 7 2007). The alluvial deposits consist primarily of gravels and sands and are underlain by the Livermore Formation, which consists of relatively less permeable clayey gravels and sands, and silts and clays. Two major aquifer zones have been identified: the "Upper Aquifer Zone" and the "Lower Aquifer Zone." The Upper Aquifer Zone is generally unconfined and consists of unconsolidated coarse-grained alluvial sediments (primarily sandy gravel and sandy clayey gravel) encountered beneath surficial clays and between approximately 20 to 40 feet below ground surface (bgs) and 80 to 150 feet bgs. Permeable sediments encountered beneath the Upper Aquifer Zone and the underlying clay aquitard are grouped into the Lower Aquifer Zone, which is semi-confined to confined.

2.2.2 Site Geology and Hydrogeology

Subsurface investigations conducted by LFR during July 2007 have encountered unconsolidated sediments consisting predominantly of clays and silts with gravel and intervals of coarser-grained gravels and sands. Because of the historical activities at the Site, some areas may consist of native sediments while others may consist of fill material. The locations of the former aggregate mining pits are not well defined. In certain areas, including the SS-123 area (AOC #8), concrete or cement material was encountered during drilling (at approximately between 10 and 30 feet bgs), indicating that historical mining pits likely were located in this area and subsequently filled by debris from the former mining operations.

With the exception of the SS-123 area (AOC #8), groundwater beneath the Site has generally been encountered approximately between 45 and 65 feet bgs. During the July 2007 subsurface investigations summarized in this report, groundwater was encountered approximately between 65 and 70 feet in temporary soil borings located in AOCs #2, #3, and #7. During a previous investigation conducted in AOC #1 in November 2006, groundwater was encountered in temporary soil borings approximately between 45 and 55 feet bgs. The difference in depth to groundwater between the July 2007 and the November 2006 investigations may accurately define differences in the depth to groundwater in the different areas of the Site, or may reflect seasonal variations. During the July 2007 investigations, depth to groundwater also was measured in four existing groundwater monitoring wells to be approximately between 53 and 57 feet below the top of the well casing (TOC), which is equivalent to approximately 50 to 54 feet bgs assuming 3-foot well risers. However, these four monitoring wells have well screens deeper than 170 feet bgs and possibly are not monitoring the same shallow groundwater encountered in the temporary soil borings that were advanced to a maximum depth of 75 feet bgs.

In the SS-123 area, groundwater was encountered between 25 and 30 feet bgs during LFR's investigations in July 2007 and ENV's investigations conducted between February and May 2007. ENV has concluded that this represents a perched groundwater zone; however, the presence of a perched groundwater zone in this area has not been confirmed.

The local groundwater flow direction and gradient beneath the Site currently is not known. New shallow groundwater monitoring wells were installed in AOC #1 in October 2007. Water-level elevations measured at these new wells will be used to assess the local groundwater flow direction and gradient in the southwestern portion of the Site.

2.3 Summary of PECs/RECs and Previous Environmental Site Investigations

Several subsurface investigations have been conducted at the Site to date by various consultants, including Baseline Environmental Consulting ("Baseline"), ENV, Brown & Caldwell (B&C), and LFR. The investigations conducted by Baseline were conducted on behalf of Hanson during 1991 and 1995 and predominantly were associated with the removal of former USTs. ENV completed several investigations on behalf of Legacy during 2006 and 2007, including a Phase I ESA and a Phase II ESA, and additional subsurface sampling in randomly selected locations. These investigations were conducted as part of Legacy's due diligence work prior to entering into a purchase agreement with Hanson for the Site. B&C completed three investigations on behalf of Hanson during 2006 and 2007, including a Phase I ESA, a limited Phase II ESA, and a subsurface investigation to assess soil and groundwater quality near two former USTS removed from approximately north of the idle truck maintenance shop in 2003. Based on the results of the B&C subsurface investigations, regulatory closure for these two former USTs was granted in June 2007.

LFR conducted an additional Phase II subsurface investigation in the former hot mix asphalt plant area (AOC #1) in November 2006 on behalf of Hanson to confirm previous findings by ENV and to further characterize the extent of suspected petroleum hydrocarbon contamination. Based on the results of LFR's November 2006 investigation, Hanson reported to ACEH the presence of elevated concentrations of petroleum hydrocarbons in soil and groundwater beneath the former hot mix asphalt plant area. Because of the large number of individual investigations conducted at the Site by various consultants, ACEH requested that a single document be prepared presenting a summary of all potential or recognized environmental concerns (PECs or RECs) on a site-wide basis.

On May 16, 2007, LFR submitted the Work Plan, which included a summary of the history of the Site and a detailed summary of site-wide environmental conditions based on results from investigations conducted by LFR and other consultants (LFR 2007a). To facilitate the data review and to focus future proposed investigations at the Site, LFR defined the nine AOCs that contained one or more PECs or RECs. In order to identify a PEC or REC, LFR compared all available analytical results to the Environmental Screening Levels (ESLs) for commercial/industrial land use areas developed by the Regional Water Quality Control Board (RWQCB 2005). Concentrations were considered elevated, and a PEC or REC was identified, based on whether analytical results exceeded the ESLs. The nine AOCs are shown on Figure 2 and are described below.

- AOC #1 Former Hot Mix Asphalt Plant Area (investigation being conducted during October 2007 and results will be presented under separate cover)
- AOC #2 Idle Truck Maintenance Area
- AOC #3 Heavy Equipment Maintenance and Wash Rack Area, and PEC Identified by Temporary Soil Boring EB-35
- AOC #4 Former Concrete Batch Plant Area
- AOC #5 Former Mining Operations Area
- AOC #6 Storm-Water Retention Pond
- AOC #7 PEC Identified by Temporary Soil Boring SS-31
- AOC #8 PEC Identified by Temporary Soil Boring SS-123
- AOC #9 Vulcan Materials Company Storm-Water Runoff Area

The following sections present a brief overview of known site conditions in each of the AOCs based on the more detailed information presented in the Work Plan. Site maps were prepared for each individual AOC and were presented in the Work Plan. The individual site maps have been updated for this report to include results from the subsurface investigations completed recently by ENV (ENV 2007c) and by LFR (reported herein). Figures 3 through 7 present updated detailed maps of AOCs #2, #3, #6, #7, and #8, respectively. In agreement with ACEH and as described below,

PECs/RECs within AOC #1 have been further characterized under a separate scope of work and the results of that investigation will be presented under separate cover. As such, a site plan for AOC #1 and detailed site description and history are not included in this report.

2.3.1 AOC #2: Idle Truck Maintenance Area

The former idle truck maintenance area is located in the west-central portion of the Site (AOC #2; Figures 2 and 3). The eastern portion of AOC #2 contains several structures, including the idle truck maintenance shop currently used by the Pleasanton Garbage Service Inc. and several trailers. Approximately seven former USTs have been removed from this AOC; these have been investigated and closed to the satisfaction of regulatory oversight agencies. An inactive 640-foot-deep water supply well owned by Zone 7, well 3E/1S 15F3, also known as well Kaiser #6, is located southwest of the idle truck maintenance shop and was sampled by ENV in February 2007 (sample name W-1; Figure 3).

The western portion of AOC #2 contains the idle truck maintenance yard and mostly undeveloped areas. Based on previous investigations, a PEC was identified near the northeastern corner of the maintenance yard during the Phase II ESA by ENV, based on the analytical results from soil samples collected from temporary soil boring EB-31. Former boring EB-31 was advanced by ENV reportedly because a former "waste pit" or disposal pond existed in this portion of the Site (ENV 2006b). Analytical results identified that the soil sample collected from approximately 10 feet bgs slightly exceeded the ESL for total petroleum hydrocarbons (TPH) as diesel (TPHd). Other soil samples collected from above and below the 10-foot interval did not exceed the ESLs.

LFR recommended that this PEC and data gap identified by the results from former soil boring EB-31 be further characterized laterally.

2.3.2 AOC #3: Heavy Equipment Maintenance and Wash Rack Area, and PEC Identified by Temporary Soil Boring EB-35

The heavy equipment maintenance area and soil boring EB-35 are located in the northcentral portion of the Site (AOC #3; Figures 2 and 4). This area encompasses several existing buildings and/or structures that were identified as PECs or RECs in the Work Plan, such as a heavy equipment maintenance shop and two warehouses (no longer significantly in use), the lube shed associated with the maintenance shop, a truck wash rack, sump, and associated oil-water separator, and two aboveground waste oil tanks. In addition, one active transformer located approximately at the northwestern corner of the building housing the Hanson offices was identified. Former soil boring EB-35 was advanced in a vacant area approximately 2,000 feet northeast of the Hanson offices as part of ENV's random sampling program (ENV 2007a). Although elevated concentrations of TPH were detected in shallow soil samples collected in the vicinity of former boring EB-35, no known or suspected historical activities were reported to have taken place in this portion of the Site.

Following a review of subsurface investigations conducted by B&C and ENV, LFR identified only two PECs in AOC #3. Two soil samples collected from approximately 2 and 2.5 feet bgs near the northeastern corner of the lube shed resulted in TPHd concentrations that exceeded the ESL. Also, the soil samples collected from approximately 2 feet bgs from former soil boring EB-35 contained TPHd and TPH as motor oil (TPHmo) at concentrations above the ESLs. In the Work Plan, LFR recommended that additional subsurface investigations be conducted to further characterize the lateral extent of petroleum hydrocarbons in shallow soil in the vicinity of former soil borings B-1 and EB-35.

2.3.3 AOC #4: Former Concrete Batch Plant Area

The former concrete batch plant was located in the southwestern portion of the (AOC #4; Figure 2). The concrete batch plant was operated until 2004 when the majority of the equipment was removed. No structures remain from these operations, although four broken aboveground plastic tanks remain that likely contained plasticizers. One former diesel UST was removed in 1995, and confirmation sampling resulted in the receipt of a UST case closure letter from a regulatory agency (ACEH 1998). As discussed in the Work Plan, subsurface investigations conducted by ENV confirmed the former concrete batch plant operations did not significantly affect the subsurface and LFR did not identify any data gaps. Therefore, no additional subsurface investigations were proposed in the Work Plan.

2.3.4 AOC #5: Former Mining Operations Area

The former mining operations area was located in the central portion of the Site (AOC #5; Figure 2). Mining operations were conducted until 2004, when the majority of the equipment was removed. All that remains in this area are concrete slabs, large piles of broken concrete, and areas of bare earth. As discussed in the Work Plan, subsurface investigations conducted by ENV confirmed that the former mining operations area did not significantly affect the subsurface and LFR did not identify any data gaps. Therefore, no additional subsurface investigations were proposed in the Work Plan.

2.3.5 AOC #6: Storm-Water Retention Pond

The storm-water retention pond is located along the western boundary of the Site on the northern side of Busch Road adjacent to the Kiewit property (AOC #6; Figures 2 and 5). According to Hanson, the source of the water to this pond is surface runoff water diverted from the Kiewit property, the Pleasanton Garbage Service Inc. operations, and the Hanson property. There are three large-diameter (approximately 12- to 20-inch-diameter) pipes visible that appear to discharge water from these properties into the

pond; one pipe is located near the southwestern corner of the pond and two pipes are located near the southeastern corner of the pond.

ENV reported that sediment and surface-water samples collected from this pond in 1992 contained detectable concentrations of petroleum hydrocarbons (ENV 2006a). Surface-water and sediment samples subsequently were collected from the storm-water retention pond by ENV and B&C in 2006. Analytical results from one of the sediment samples and from the one surface-water sample, both collected near the southeastern corner of the pond by B&C, contained TPHd and TPHmo concentrations that exceeded the ESLs. In the Work Plan, LFR recommended that additional shallow sediment and surface-water samples be collected to confirm these results.

2.3.6 AOC #7: PEC Identified by Temporary Soil Boring SS-31

Temporary soil boring SS-31 was advanced by ENV approximately near the southeastern corner of Lake I (AOC #7; Figures 2 and 6), as part of its subsurface investigations conducted in randomly selected locations (ENV 2007a). LFR is not aware of any historical mining operations in this portion of the Site. The soil samples collected from approximately 2 and 40 feet bgs from former boring SS-31 contained TPHd and TPHmo concentrations that exceeded the ESLs. Based on these results, LFR recommended that four temporary soil borings be advanced in step-out locations to collect additional soil samples to characterize the lateral and vertical extent of petroleum hydrocarbon-affected soil in this area. Because the deepest soil sample collected contained elevated concentrations of TPH, in the Work Plan LFR also recommended the collection and analysis of grab groundwater samples in this area.

2.3.7 AOC #8: PEC Identified by Temporary Soil Boring SS-123

As part of its subsurface investigations conducted in randomly selected locations, ENV advanced temporary soil boring SS-123 in the area located between the Vulcan Materials Company (VMC) property and the former mining operations area (AOC #8; Figures 2 and 7; ENV 2007a). LFR is not aware of any historical mining operations that may have taken place in this portion of the Site. Analytical results for soil samples collected from former soil boring SS-123 in January 2007 indicated the presence of petroleum hydrocarbon-affected soil at depths of approximately 20 to 40 feet bgs. Based on these results, ENV advanced four additional temporary soil boring SS-123 in March 2007. Analytical results from soil and grab groundwater samples contained TPHd and TPHmo at concentrations that exceeded the ESLs in soil samples collected from approximately between 2 and 30 feet bgs, and in grab groundwater samples collected from approximately 30 feet bgs in each of the four soil borings.

Based on the results of the March 2007 investigation, ENV concluded that the groundwater encountered approximately between 25 to 30 feet bgs represented a perched groundwater interval (ENV 2007b), and that additional characterization was

necessary. ENV proposed to conduct a third investigation in May 2007, consisting of additional step-out temporary soil boring locations.

When LFR submitted the Work Plan to ACEH on May 16, 2007, the results of ENV's third investigation conducted during May 2007 in this area were not available. LFR did not make any recommendations for additional investigations in the Work Plan, pending the results of ENV's investigation. Subsequently, a draft summary report presenting the results from ENV's third investigation was made available to LFR on July 3, 2007, and LFR later obtained a copy of the final report dated June 2007 from the ACEH on-line document library (ENV 2007c).

According to ENV's June 2007 report, four temporary soil borings were advanced in locations stepping out approximately 125 feet to the east, south, west, and north of the original SS-123 location (Figure 5). Former soil borings SS-123(E) through SS-123(H) were advanced to depths of approximately 30 to 35 feet bgs. Elevated TPHd and TPHmo concentrations were detected in a depth-discrete soil sample collected from approximately 5 feet bgs in former soil boring SS-123(G) located farthest west. Elevated TPHd concentrations were detected in the soil samples collected from approximately 15 feet bgs from former soil borings SS-123(H), located to the north, and SS-123(E), located to the east. No other soil samples collected from the three soil borings advanced by ENV at locations to the west, north, and east contained elevated hydrocarbon concentrations. In addition, grab groundwater samples collected from former soil borings SS-123(E), SS-123(G), and SS-123(H) did not contain TPHd concentrations above the ESL, and TPHmo was not detected above the laboratory reporting limit. Based on these results, the lateral and vertical extents of hydrocarbon contamination have been sufficiently characterized to the west, north, and east of former boring SS-123.

Of the four step-out locations advanced by ENV, only the southernmost soil boring (SS-123(F)) contained elevated petroleum hydrocarbons in soil samples and in the grab groundwater sample. Soil samples collected from approximately 5, 10, 15, and 20 feet bgs contained TPHd concentrations that exceeded the ESL and the 5-foot soil sample contained TPHmo at a concentration that exceeded the ESL. The grab groundwater sample contained TPHd and TPHmo at concentrations that exceeded the ESL (Figure 5; ENV 2007c).

Based on ENV's draft results, LFR planned to advance four additional temporary soil borings in the vicinity of former soil boring SS-123 during the July 2007 site-wide investigations, to further assess the lateral extent of petroleum-affected soil and groundwater in this area. Three soil boring locations were identified as step-out locations from former soil boring SS-123(F). One soil boring location was selected to be approximately adjacent to the original soil boring SS-123, in order to collect continuous core samples and create a more detailed soil boring log (ENV collected soil samples at approximately every 10 feet), and to collect a grab groundwater sample (ENV did not collect a grab groundwater sample from former boring SS-123). LFR

planned to collect depth-discrete soil samples and grab groundwater samples from each soil boring.

2.3.8 AOC #9: Vulcan Materials Company Storm-Water Runoff Area

The VMC property is located adjacent to the Site and to the east and is an active aggregate mining and product facility. The VMC runoff area is located along the southeastern edge of the Site (AOC #9; Figure 2). According to the Phase II ESA report by ENV, previous reports indicated that surface-water runoff from the VMC property onto the Site has occurred in the past (ENV 2006b). Reportedly, a berm was installed between the VMC property and the Site to control surface-water runoff; the current condition of this berm could not be determined by LFR or Hanson.

ENV collected three shallow soil samples from the VMC storm-water runoff area during September 2006, approximately where surface-water runoff may have taken place. Analytical results showed that TPHd was slightly elevated in one of the soil samples; however, the soil samples collected approximately upgradient and downgradient from this soil sample did not contain significant TPHd or TPHmo concentrations. No data gaps were identified and LFR did not recommend any additional investigations for this area.

2.4 Regulatory Determinations

Based on its review of documentation and reports of environmental investigations conducted by various consultants on behalf of Hanson and Legacy, ACEH issued a letter to Hanson on March 16, 2007, requesting that a work plan be prepared to propose a scope of work for additional site-wide characterization investigations. ACEH requested that the work plan include:

- A detailed site history
- A description of current conditions and PECs or RECs
- An improved presentation of available analytical data
- Copies of relevant reports or documents not previously provided to ACEH, in particular regarding environmental investigations conducted at the neighboring Kiewit property and case closure letters from regulatory agencies for former USTs
- A scope of work for additional characterization investigations

LFR prepared and submitted the May 16, 2007 Work Plan to ACEH, addressing ACEH's requests. In the Work Plan, LFR included a summary of the various PECs and RECs on a site-wide basis, a comprehensive summary of all available analytical data, individual site maps presenting analytical data and site features and at appropriate scales, and a scope of work for additional characterization investigations (LFR 2007a). On June 20, 2007, a project planning meeting was held at the ACEH offices with

ACEH, Hanson, LFR, and Nuquest on behalf of Hanson, Legacy, and ENV, and AIG Environmental on behalf of Legacy, to discuss current site conditions, the Work Plan and proposed scope of work, and the anticipated property transfer for the majority of the Hanson property to Legacy. During this meeting, two areas were highlighted as being of primary environmental concern, namely the deep soil contamination in the northern portion of the former hot mix asphalt plant area and in the vicinity of former soil boring SS-123.

ACEH subsequently approved the Work Plan in a letter dated June 22, 2007, and provided technical comments consisting primarily of requests for advancing certain proposed soil borings deeper and conducting additional analyses on soil and/or groundwater samples collected from specific locations (ACEH 2007c). ACEH agreed with LFR that no additional investigations would be required in the western portion of AOC #2, and in AOCs #4, #5, and #9.

2.4.1 Property Transfer and New Case Number

In anticipation of the property transfer between Hanson and Legacy, the Radum property has been divided into two primary parcels. Investigations and summary reports are now being conducted separately for the two primary areas of the Site.

It is LFR's understanding that Hanson has retained the portion of the property delineated by the Lot Line Adjustment, the approximately 15-acre area defined as Parcel 1, and the small, irregularly shaped area located south of the Kiewit property, and that the rest of the Site has been transferred to Legacy. In anticipation of the planned property transfer from Hanson to Legacy, Hanson requested that ACEH assign a new Spills, Leaks, Investigations, and Cleanups (SLIC) case number to the portion of the property transferred to Legacy (LFR 2007b). ACEH approved this request (ACEH 2007d), and currently there exist two SLIC case numbers for the Site, defined as follows:

ACEH SLIC case number RO0002941 and Geotracker Global ID SLT19719376 refer to the approximately 15-acre Parcel 1 and the small area south of the Kiewit property, including AOC #1 and the western portion AOC #2.

ACEH SLIC case number RO0002952 and Geotracker Global ID SL0600101555 refer to the rest of the Hanson Radum property, including the eastern portion of AOC #2 and AOCs #3 through #9.

2.4.2 Investigation and Reporting Schedule

In accordance with the Work Plan and ACEH technical comments outlined in its June 22, 2007 letter, LFR conducted subsurface investigations in the eastern portion of AOC #2, and in AOCs #3, #6, #7, and #8, during July 2007. The results on these

investigations are summarized and discussed in this report, which has been transmitted to ACEH on October 26, 2007.

The subsurface investigations proposed to be conducted in the former hot mix asphalt plant area (AOC #1) and in the irregularly shaped area south of the Kiewit property were completed during October 2007. As approved by ACEH via e-mail on October 9, 2007, LFR will submit a summary report presenting results from these investigations on November 30, 2007.

2.5 Investigation Objectives

The primary objective of the subsurface investigations proposed in the Work Plan is to further characterize the lateral and/or vertical extent of petroleum hydrocarbons in soil and/or groundwater in AOCs #2, #3, #6, #7, and #8. Below is a summary of the investigations proposed to fill the data gaps.

- AOC #2 Idle truck maintenance area: advance three temporary soil borings near former boring EB-31 to characterize the lateral extent of TPHd in soil and to assess groundwater quality in this area of the Site.
- AOC #3 Heavy equipment maintenance and wash rack area, and former soil boring EB-35 area: advance one temporary soil boring near former boring B-1 to characterize the lateral and vertical extent of TPHd in soil and to evaluate whether groundwater has been affected in this area, and advance four temporary soil borings in the vicinity of former boring EB-35 to assess the lateral extent of TPHd and TPHmo in soil.
- AOC #6 Storm-water retention pond: collect sediment and surface-water samples from the pond to confirm previous TPHd and TPHmo results.
- AOC #7 Former soil boring SS-31 area: advance four temporary soil borings near former boring SS-31 to characterize the lateral and vertical extent of TPHd and TPHmo in soil and to assess groundwater quality in this area of the Site.
- AOC #8 Former soil boring SS-123 area: advance four temporary soil borings in the vicinity of former boring SS-123 to assess the lateral and vertical extent of TPHd and TPHmo in soil and groundwater in this area of the Site.

3.0 INVESTIGATION METHODOLOGY

3.1 **Pre-Field Activities**

3.1.1 Permitting

LFR applied for and received the appropriate soil boring drilling permit from Zone 7. Based on the drilling locations, no other permits were required for the proposed activities. A copy of the approved soil boring permit is included in Appendix A.

3.1.2 Subsurface Utility Clearance

LFR notified Underground Service Alert (USA) to identify any public underground utilities located in the vicinity of the proposed soil boring locations. LFR did not receive any utility alerts from USA. LFR also subcontracted a private underground utility locator to clear all proposed soil boring locations using geophysical and pipe/cable location methods. All proposed soil boring locations were cleared satisfactorily. Due to the extreme hardness of the surface soil and the presence of gravel in the upper 5 feet of soil, the temporary soil borings could not be started using hand-auger techniques as was proposed in the Work Plan as an additional precaution against encountering utilities during drilling.

3.1.3 Health and Safety Plan

A Health and Safety Plan (HSP) previously prepared by LFR for the subsurface investigations conducted at the former hot mix asphalt plant area in November 2006 was revised to address health and safety concerns specific to the planned field activities.

Health and safety tailgate meetings were conducted before beginning fieldwork each day, and fieldwork was monitored according to the HSP to ensure that appropriate health and safety procedures were followed during the field investigations. In addition, in accordance with standard Hanson Radum facility operations, LFR and LFR's subcontractors attended on-site health and safety training conducted by a Hanson representative.

3.2 Temporary Soil Borings

A total of 16 temporary soil borings was advanced to depths ranging approximately from 10 to 70 feet bgs in AOCs #2, #3, #7, and #8, as described below.

3.2.2 Soil Boring Advancement and Soil and Grab Groundwater Sampling Procedures

Drilling and Lithologic Logging

LFR subcontracted HEW Drilling Co., Inc., of Palo Alto, California, a state-certified drilling subcontractor, to advance the 16 temporary soil borings using hollow-stem auger (HSA) drilling technology using a CME-75 drill rig and an 8-inch-diameter HSA (although a larger drill rig and HSA were used to advance several soil borings in the SS-123 area, as explained in Section 3.2.3). The drilling and soil and grab groundwater sampling activities were completed during July 16 through 24, 2007. During drilling, continuous soil cores were collected for lithologic evaluation and field screening. LFR collected depth-discrete soil samples for laboratory analyses from intervals where field screening and field observations indicated the possible presence of petroleum hydrocarbons or other contaminants in the soil. Where no indication of contamination was observed in the soil cores, LFR collected depth-discrete soil samples at approximately 5-foot intervals, until groundwater was first encountered or to a target depth, depending on the soil boring location.

Field boring logs were prepared for each soil boring location, and lithologic and field screening results were recorded on the field boring logs. Field boring logs were prepared by an LFR field geologist based on visual lithologic soil logging procedures and the Unified Soil Classification System (ASTM D2488-00). All boring logs were reviewed, edited, and signed by a California Professional Geologist.

All downhole drilling and sampling equipment was appropriately cleaned with high-pressure hot water (steam cleaned) before use at each drilling location. After soil and groundwater samples were collected, each borehole was abandoned by sealing it with a mixture of cement and bentonite ("grout") from the bottom up to the ground surface using a tremie pipe if groundwater was present, or directly from the ground surface if no groundwater was present. Waste soil generated during drilling was placed on plastic tarps on the ground surface near each temporary soil boring and will be disposed of as necessary during future land development activities.

Soil Sampling

LFR attempted to collect continuous soil cores using California split-spoon-type samples driven in approximately 18-inch intervals. This was conducted variably, depending on soil conditions, in soil borings EB-35(A) through EB-35(D), B-1(A), EB-31(A), EB-31(C), and SS-31(A). The coarse-grained nature of the soils (typically gravels) made this sampling method difficult to nearly impossible in certain locations. Therefore, LFR switched to collecting 5-foot continuous cores during HSA drilling where necessary. The continuous coring resulted in somewhat poorer soil core recovery in certain soil borings. Where the California split-spoon sampler was used, soil cores were collected in brass tube liners. Where continuous coring methods were

used, soil samples selected for laboratory analyses were transferred from the core barrel to brass tube liners.

Depth-discrete soil samples were selected for laboratory analyses based on the potential presence of contaminants, in particular petroleum hydrocarbons, as apparent from field screening using a photoionization detector (PID) or from visual/olfactory evaluation of the soil cores. All soil samples selected to be submitted for laboratory analyses were properly labeled with the boring identification number and depth interval, the time and date of collection, and the initials of the sampler. Soil samples were stored in ice-chilled coolers that were submitted to the analytical laboratory under strict chain-of-custody protocols on a daily basis.

Grab Groundwater Sampling

Ten of the 16 temporary soil borings were advanced until groundwater was first encountered to collect grab groundwater samples. After drilling was completed, a temporary well casing consisting of a polyvinyl chloride (PVC) well screen and casing was placed through the HSA and the HSA was raised approximately 3 to 5 feet to allow groundwater to enter the borehole. Grab groundwater samples were collected using clean, disposable bailers lowered into the PVC casing and gently pouring the groundwater from the bailer into the appropriate clean, laboratory-supplied sample containers. The sample containers were properly labeled with the boring identification number, the time and date of collection, and the initials of the sampler. Groundwater samples were stored in ice-chilled coolers along with the soil samples, and were submitted to the analytical laboratory under strict chain-of-custody protocols on a daily basis.

Grab groundwater samples were successfully collected from each location where grab groundwater samples were proposed to be collected, although most soil borings needed to be advanced deeper than anticipated. Based on previous investigations conducted at the former hot mix asphalt plant, groundwater was anticipated to be encountered between approximately 50 and 55 feet bgs. During the drilling conducted site-wide in July 2007, however, borings were advanced to approximately 70 feet bgs in order to encounter sufficient groundwater for sampling, with the exception of the area near former soil boring SS-123 where groundwater previously had been encountered at approximately 30 feet bgs.

3.2.3 Temporary Soil Boring Locations and Target Depths

The locations of temporary soil borings advanced by LFR in AOCs #2, #3, #7, and #8 during July 16 though 24, 2007 are shown on Figures 3, 4, 6, and 7, respectively. Sample locations and target depths are described below.

Idle Truck Maintenance Area (AOC #2)

LFR advanced at total of three temporary soil borings in the idle truck maintenance area (AOC #2), in the vicinity of former soil boring EB-31, which was located approximately northeast of the idle truck maintenance yard. Soil borings EB-31(A) through EB-31(C) were advanced to further characterize the lateral and vertical extent of elevated TPHd and TPHmo concentrations detected in a soil sample previously collected from approximately 10 feet bgs in former boring EB-31. The three new soil borings were located approximately 15 feet southeast, southwest, and north, respectively, of former boring EB-31 (Figure 3). Soil borings EB-31(A) and EB-31(C) were advanced to approximately 20 feet bgs, and soil boring EB-31(B) was advanced to approximately 70 feet bgs until groundwater was first encountered. In each soil boring, depth-discrete soil samples were collected for laboratory analyses from approximately every 5 feet to approximately 20 feet bgs and analyzed for TPHd and TPHmo. A grab groundwater sample was collected from boring EB-31(B) and analyzed for TPHd; TPHmo; TPH as gasoline (TPHg); volatile organic compounds (VOCs); benzene, toluene, ethylbenzene, and total xylenes (BTEX); fuel oxygenates; and lead scavengers (Table 1).

Heavy Equipment Maintenance and Wash Rack Area, and PEC Identified by Former Soil Boring EB-35 (AOC #3)

Five temporary soil borings were advanced in AOC #3 (Figure 4). One soil boring (B-1(A)) was located approximately 18 feet north of former soil boring B-1 near the lube shed, and was advanced to approximately 70 feet bgs to collect a grab groundwater sample.

Four soil borings (EB-35(A) though EB-35(D)) were advanced surrounding former soil boring EB-35, to further characterize the lateral and vertical extent of elevated TPHd concentrations detected in soil samples collected from approximately 2 feet bgs in these two areas (Figure 4). These four borings were located approximately 25 feet to the east, south, west, and north of former boring EB-35 and were advanced to approximately 10 or 11 feet bgs.

Continuous soil cores were collected from each temporary soil boring for lithologic logging, and depth-discrete soil samples were collected for laboratory analyses from approximately 5 and 10 feet bgs in each soil boring and were analyzed for TPHd, TPHmo, TPHg, polychlorinated biphenyls (PCBs), semivolatile organic compounds (SVOCs), and metals concentrations. An additional soil sample was collected from approximately 35 feet bgs (based on field screening results) at boring B-1(A) and analyzed for TPHd and TPHmo. A grab groundwater sample was collected from boring B-1(A) and was analyzed for TPHd, TPHmo, TPHg, VOCs, BTEX, fuel oxygenates, and lead scavengers (Table 1).

PEC Identified by Former Soil Boring SS-31 (AOC #7)

AOC #7 was defined by elevated petroleum hydrocarbon concentrations detected in soil samples collected from former soil boring SS-31 (Figure 6). LFR advanced four temporary soil borings approximately surrounding former soil boring SS-31 to further characterize the lateral and vertical extent of elevated TPHd and TPHmo concentrations previously detected in soil samples from approximately 2 and 40 feet bgs. Soil borings SS-31(A) through SS-31(D) were located approximately 75 feet to the west, north, east, and south, respectively (Figure 6). Each soil boring was advanced to approximately 70 feet bgs to collect grab groundwater samples. Depth-discrete samples were collected for laboratory analyses from the four soil borings from approximately every 5 feet from ground surface to approximately 30 feet bgs, and then approximately every 10 feet bgs until groundwater was encountered. An additional depth-discrete soil sample was collected from the 52- to 53-foot interval in boring SS-31(A) based on the field screening results. All soil samples were analyzed for TPHd, TPHmo, TPHg, BTEX compounds, fuel oxygenates, and lead scavengers. In addition, the 5- and 10foot samples were analyzed for pesticides, PCBs, SVOCs, and metals concentrations (Table 1).

Grab groundwater samples were collected from each of the four soil borings and analyzed for TPHd, TPHmo, TPHg, VOCs, BTEX, fuel oxygenates, and lead scavengers (Table 1).

PEC Identified by Former Soil Boring SS-123 (AOC #8)

AOC #8 was defined by elevated petroleum hydrocarbon concentrations detected in soil samples collected from the initial former soil boring SS-123 (Figure 7). As described in Section 2.3.7, ENV subsequently advanced a total of eight soil borings in step-out locations from former boring SS-123 to investigate the nature and extent of potential petroleum hydrocarbon contamination in this area. Based on ENV's results, LFR proposed to advance three soil borings in step-out locations from former soil boring SS-123(F) and one temporary soil boring adjacent to the original former boring SS-123.

Soil boring SS-123(AA) was advanced approximately adjacent to former boring SS-123, to approximately 20 feet bgs to collect a continuous soil core and a grab groundwater sample, neither of which was collected from the original soil boring SS-123. In addition, based on ENV's conclusion that a perched zone of groundwater exists in the SS-123 area, LFR attempted to confirm the presence of perched groundwater. Soil boring SS-123(AA) was drilled using a relatively powerful HSA drilling rig (CME-95 instead of standard CME-75) and large-diameter HSA (16-inch diameter instead of standard 8-inch). LFR intended to advance the 16-inch-diameter HSA into a relatively less permeable interval, possibly beneath the perched groundwater zone, and then continue drilling deeper using the 8-inch-diameter HSA advanced inside the 16-inch-diameter HSA, which would serve as a temporary casing sealing the perched groundwater from deeper groundwater zones. However, the

suspected perched groundwater could not be adequately sealed from entering the borehole using the 16-inch-diameter HSAs; therefore, the presence of a perched groundwater zone could not be confirmed using this drilling method.

Soil borings SS-123(F1), SS-123(F2), and SS-123(F3) were advanced as step-out locations to former soil boring SS-123(F), and were located approximately 75 feet to the east, south, and west, respectively. Soil borings SS-123(F1) through SS-123(F3) were advanced to approximately 30 feet bgs. Continuous soil cores were collected and depth-discrete soil samples were collected from approximately every 5 feet until a grab groundwater sample could be collected from the first encountered groundwater.

3.3 Surface Sediment and Water Samples from the Storm-Water Retention Pond

LFR collected a total of four surface-sediment samples and one composite surfacewater sample from the storm-water retention pond (AOC #6; Figure 5). LFR subcontracted NRC Environmental Services (NRC) of Alameda, California, to assist in collecting the samples from within the storm-water retention pond on July 13, 2007. NRC provided a boat that was lowered into the pond and from which two of the four sediment samples were collected from beneath the water using a potable dredge to collect the composite surface-water sample. The sediment collected using the dredge was placed in clean, laboratory-provided sample containers. The two sediment samples collected from the wet sediment above the surface water were collected by pushing clean sample containers into the sediment. The four sediment samples were collected approximately in line and approximately at 50-foot intervals between the southeastern corner of the pond and approximately the center of the pond. The southeasternmost sediment sample was collected approximately below the outflow of two large diameter pipes that appear to direct surface-water runoff from the Hanson and Kiewit properties into the pond.

The composite surface-water sample was collected by compositing surface water from approximately the southeastern and southwestern corners of the pond, approximately beneath the outflow of the two large-diameter pipes leading into the pond in the southeastern corner and one large-diameter pipe leading into the pond in the southwestern corner of the pond. The surface-water samples were collected directly into clean, laboratory-provided sample containers. All samples were placed in ice-chilled coolers, which were submitted to the analytical laboratory under strict chain-of-custody protocols on a daily basis.

The four storm-water sediment samples were analyzed for TPHd, TPHmo, and metal concentrations while the composite surface-water sample was analyzed for TPHd, TPHmo, TPHg, VOCs, BTEX, fuel oxygenates, lead scavenger compounds, and metals concentrations (Table 1).

3.4 Laboratory Analyses

All soil and water samples selected for laboratory analyses were submitted to Curtis & Tompkins, Ltd. (C&T), a California-certified analytical laboratory located in Berkeley, California. All samples were analyzed for TPHd and TPHmo by U.S. Environmental Protection Agency (EPA) Method 8015 (after undergoing silica gel cleanup). Selected samples were analyzed variably for the following analyses: TPHg by EPA Method 8015 (soil and sediment samples) or EPA Method 8260 (groundwater and surface-water samples); VOCs, BTEX, fuel oxygenates, and lead scavengers by EPA Method 8260; pesticides by EPA Method 8081; PCBs by EPA Method 8082; SVOCs by EPA Method 8270; and metals (CAM 17 by EPA Method 6010). Table 1 presents a sample matrix that summarizes the laboratory analyses conducted from individual soil, groundwater, sediment, and surface-water samples.

3.5 Field Documentation

Field activities were documented using the appropriate forms for HSP tailgate meetings, field boring logs, sample labels, and chain-of-custody forms. Forms will be kept on file at LFR and will be available upon request.

3.6 Land Survey of Sample Locations

After all samples were collected, LFR subcontracted a licensed land surveyor to survey the location of individual temporary soil borings and the approximate location of the sediment and surface-water samples collected from the storm-water retention pond. All sample locations from the July 2007 field investigations presented on Figures 3 through 7 are based on the land survey results.

4.0 **RESULTS OF ADDITIONAL SITE-WIDE CHARACTERIZATION**

Results from investigations conducted in AOCs #2, #4, #7, and #8 and in the storm water retention pond (AOC #6) during July 2007 are summarized and discussed below. All analytical results are summarized in Tables 2 through 14, based on laboratory-certified analytical reports included in Appendix B. Soil boring logs for temporary soil borings are included in Appendix C. Analytical results for TPHd, TPHmo, and TPHg are presented on Figures 3 through 7.

All analytical results were compared to RWQCB ESLs for shallow or deep soils beneath commercial/industrial land use areas (RWQCB 2005). The ESLs are included in the summary tables. Compounds detected at concentrations that exceed the ESLs are highlighted in the tables and on the figures.

In general, the primary compounds detected in soil samples are TPHd and TPHmo. No other organic compounds, including TPHg, VOCs, BTEX, fuel oxygenates, lead

scavengers, SVOCs, pesticides, PCBs, or SVOCs, were detected in any soil or sediment samples. Although several metals were detected, only arsenic, cobalt, and chromium were detected at concentrations that exceeded the ESLs. One or more of these three metals were detected in shallow samples collected from AOCs #3, #6, and #7. However, the detected concentrations of these three metals are well within the reported ranges for naturally occurring metals for the San Francisco Bay Area, based on the report entitled "Analysis of Background Distributions of Metals in the Soil at Lawrence Berkeley National Laboratory (LBNL)," prepared by LBNL in June 2002. Based on the LBNL study, natural background ranges for arsenic, cobalt, and chromium in San Francisco Bay Area soils can be defined as follows (arithmetic mean plus or minus the standard deviation):

- Arsenic: 0.1 to 10.9 milligrams per kilogram (mg/Kg)
- Cobalt: 9.2 to 18.8 mg/Kg
- Chromium: 32 to 84 mg/Kg

Similarly, the primary compounds detected in grab groundwater samples are TPHd and TPHmo. With one exception, TPHg, BTEX, fuel oxygenates, and lead scavengers were not detected above laboratory reporting limits; toluene was detected in one grab groundwater sample at a concentration below the ESL. Several VOCs were detected in a grab groundwater sample collected from AOC #8, but none of these concentrations exceeded the ESLs. Several metals were detected in the surface-water sample, but no concentrations exceeded the ESLs.

4.1 Idle Truck Maintenance Area (AOC #2)

Predominantly fine-grained sediments (silts and clays) were encountered in soil borings EB-31(A), EB-31(B), and EB-31(C) (Figure 3). In soil boring EB-31(B), fine-grained sediments were encountered to approximately 62 feet bgs, below which relatively coarse-grained sediments (clayey gravel with sand) were encountered to the total depth of the soil boring (approximately 70 feet bgs). No evidence of petroleum-affected soil or groundwater was identified during drilling of these three soil borings.

TPHd and TPHmo were detected in several soil samples at concentrations significantly below their respective ESLs (100 mg/Kg for TPHd and 1,000 mg/Kg for TPHmo; Table 2A and Figure 3). All concentrations of TPHd and TPHmo were qualified by the laboratory, indicating that the hydrocarbons detected in the soil samples did not resemble TPHd or TPHmo; as noted by the laboratory, hydrocarbons detected generally were heavier than TPHd and lighter than TPHmo. Heavier hydrocarbons such as TPHmo typically consist of longer carbon chain hydrocarbons (C10 to C24) while lighter hydrocarbons such as TPHd typically consist of shorter chain hydrocarbons (C24 to C36). The laboratory qualifiers indicate that the detected concentrations do not resemble standards for TPHd and TPHmo.

At soil boring EB-31(B), groundwater was first encountered between 65 and 70 feet bgs. After drilling was completed, the depth to groundwater was measured at approximately 64.8 feet bgs. Continuous soil cores were collected from soil boring EB-31(B) from the ground surface to approximately 21.5 feet bgs, after which sediments were logged from auger cuttings because recovery was poor and continuous soil sampling was not required (the primary objective for drilling deeper than approximately 20 feet bgs at this location was to collect a grab groundwater sample). Petroleum hydrocarbons, VOCs including BTEX, fuel oxygenates, and lead scavenger compounds were not detected above the laboratory reporting limits in samples collected in this area (Tables 8A, 8B, and 9).

Based on the results from soil borings EB-31(A), EB-31(B), and EB-31(C), this area has been sufficiently characterized laterally and vertically. The potential petroleum hydrocarbon contamination identified in the 10-foot samples from former soil boring EB-31 appears to be limited to a localized area and depth. Groundwater does not appear to have been affected by petroleum hydrocarbons detected in soil in this area.

4.2 Heavy Equipment Maintenance and Wash Rack Area, and PEC Identified by Former Soil Boring EB-35 (AOC #3)

4.2.1 Wash Rack and Lube Shed Area

Soil boring B-1(A) was advanced in the vicinity of the lube shed to a total depth of 70 feet bgs (Figure 4). Predominantly fine-grained sediments (clays) were encountered from approximately 3 to 34 feet bgs. Predominantly coarser-grained sediments (sands and gravels) were encountered between 34 feet bgs and the total depth of the boring (70 feet bgs). No evidence of petroleum-affected soil was identified during drilling, with the exception of a slightly elevated PID reading at approximately 35 feet bgs. Only TPHmo was detected in the depth-discrete soil samples collected from boring B-1(A), in the sample collected from approximately 9.5 feet bgs at a low concentration just above the laboratory reporting limit. Several metals were detected above laboratory reporting limits, but none were detected at concentrations above the ESLs.

A grab groundwater sample was collected from soil boring B-1(A) at approximately 68 feet bgs. TPHmo was detected in this sample at a concentration of 1,100 micrograms per liter (μ g/L), slightly above the ESL of 1,000 μ g/L for TPHmo (Table 8A and Figure 4). The laboratory qualified the TPHmo result, stating that "hydrocarbons heavier than TPHmo contributed to the result." TPHd was detected at a concentration of 76 μ g/L, and that result was also qualified by the laboratory; the TPHd detection was below the ESL for TPHd (100 μ g/L; Table 8A). The only VOC detected in the grab groundwater sample was acetone, which was detected at a concentration of 10 μ g/L. This concentration is well below the ESL of 1,500 μ g/L for acetone (Table 9). Because acetone is a common laboratory contaminant and has not been detected in any other samples collected, this low acetone concentration may be associated with laboratory contamination. No other compounds were detected above

laboratory reporting limits for the grab groundwater sample collected from soil boring B-1(A) (Tables 8A, 8B, and 9).

4.2.2 PEC Identified by Former Soil Boring EB-35

In the four soil borings (EB35(A), EB35(B), EB35(C), and (EB35(D)) advanced in the vicinity of former boring EB-35, primarily gravels and/or sands were encountered from ground surface to approximately 3 to 5 feet bgs (Figure 4). Sediments below approximately 3 to 5 feet bgs were comprised of fine-grained material (silts and clays) to the total depth of the soil borings. In each soil boring except for EB-35(C), a black petroleum product was observed between approximately 2.5 and 4 feet bgs. The product was observed to be dry, similar to asphalt concrete, with a trace of oil (see soil boring log in Appendix C). It is assumed that this petroleum product is the same material that was sampled at soil boring EB-35 from approximately 2 feet bgs, which resulted in TPHd and TPHmo concentrations that exceeded the ESLs (Figure 4). TPHd and TPHmo were detected in the soil samples collected from approximately 5 feet bgs in borings EB-35(A), EB-35(B), and EB-35(D) (Table 2A and Figure 4). TPHd concentrations ranged from 38 to 160 mg/Kg, and TPHmo concentrations ranged from 540 to 3,600 mg/Kg. Only the 5-foot sample from boring EB-35(B) contained TPHd and TPHmo concentrations that exceeded the ESLs. All results were qualified by the laboratory as containing heavier hydrocarbons than the standards for TPHd and TPHmo.

TPHd and TPHmo were not detected above laboratory reporting limits in any of the soil samples collected from approximately 10 feet bgs, with the exception TPHmo detected at a low qualified concentration of 5.2 mg/Kg in a sample collected from boring EB-35(A) (Table 2A and Figure 4).

A grab groundwater sample was collected from former boring EB-35 by ENV in January 2007 from approximately 68 feet bgs. TPHd, TPHmo, and TPHg were not detected above laboratory reporting limits (Figure 4).

In general, analytical results for soil samples collected from soil borings EB-35(A) through EB-35(D) indicate that the lateral extent of petroleum-affected soil may extend farther south than the location of soil boring EB-35(B). However, the petroleum-affected soil appears to be limited to shallow soil (approximately less than 4 or 5 feet bgs), the petroleum product appears to be dry and not mobile, and groundwater quality has not been affected. LFR does not recommend that any additional subsurface investigations be conducted in this area. It is LFR's understanding that this property will be developed for commercial/industrial land use by Legacy. LFR recommends that, if affected soil is identified during the redevelopment of this area, the material should be removed as necessary.

4.3 PEC Identified by Former Soil Boring SS-31 (AOC #7)

Predominantly fine-drained sediments (clays and some silts) were encountered from ground surface to approximately 41 to 43 feet bgs in soil borings SS 31(C) and SS-31(D), to approximately 50 feet bgs in boring SS-31(B), and to approximately 65 feet bgs in boring SS-31(A) (Figure 6). Relatively coarser-grained sediments (gravels and some sands) were encountered below the fine-grained sediment to the total depth of each soil boring. Groundwater was encountered at approximately 66 feet bgs at each soil boring location. Visual observations identified the potential presence of petroleum hydrocarbons in soil samples from only soil boring SS-31(A), between approximately 52 and 53 feet bgs; however, the PID did not register a response. At soil boring SS-31(C), elevated PID readings were noted during field screening of the soil cores collected from the ground surface to approximately 35 feet bgs; however, no visual or olfactory evidence of petroleum-affected soil was noted. It is possible that the PID instrument was responding to organic matter that may have been present in the sediment or that the PID was malfunctioning.

TPHd and/or TPHmo were detected at low concentrations (approximately less than 35 mg/Kg for TPHd and less than 160 mg/Kg for TPHmo) in one soil sample collected from boring SS-31(A) (from approximately 2 feet bgs), in all soil samples collected from boring SS-31(B), and in three samples collected from borings SS-31(C) and SS-31(D) (Table 2A and Figure 6). Except for metals, no other compounds analyzed were detected above laboratory reporting limits for the soil samples collected from these soil borings (Tables 2A, 2B, 3, 4, 5, and 6). Several metals were detected above laboratory reporting limits; however, only three metals (arsenic, cobalt, and chromium) were detected at concentrations that exceeded the ESLs for these metals (Table 7). As noted in Section 4.0, the detected concentrations are well within the ranges of natural background concentrations for soils in the San Francisco Bay area.

The grab groundwater samples collected from each of the four soil borings did not contain any compounds above their laboratory reporting limits (Tables 8A, 8B, and 9).

Based on the field investigation and analytical results, the lateral and vertical extent of potential petroleum contamination previously identified in two samples collected from former soil boring SS-31 appears limited in extent to the immediate vicinity of former boring SS-31. It should be noted that the two soil samples from former boring SS-31, in which elevated TPHd and TPHmo concentrations were detected from approximately 2 and 40 feet bgs, resulted in nearly identical TPHd and TPHmo concentrations, and that the three soil samples collected from approximately 10, 20, and 30 feet bgs did not contain TPHd or TPHmo above laboratory reporting limits other than low concentrations of TPHd and TPHmo detected in the 10-foot sample. These results raise the question as to whether a field or a laboratory error could explain the presence of TPHd and TPHmo in the sample collected from 40 feet bgs. In any event, the analytical results from the 37 depth-discrete soil samples and the four grab groundwater samples collected from soil borings SS-312(A) through SS-31(D) confirm that, if there is any potential hydrocarbon contamination in this area, it is limited in extent both

vertically and laterally. LFR does not recommend any additional subsurface investigations for the vicinity of former soil boring SS-31.

4.4 PEC Identified by Former Soil Boring SS-123 (AOC #8)

4.4.1 Temporary Soil Boring SS-123(AA)

Soil boring SS-123(AA) was located approximately adjacent to the original soil boring SS-123 (Figure 7) and was advanced to approximately 20 feet bgs. Continuous soil cores were collected although soil recovery was less than 50% from ground surface to approximately 10 feet bgs. LFR encountered predominantly fine-grained sediment (clay or silt) from just below ground surface to the total depth of the soil boring. Petroleum hydrocarbon material described as hard black asphalt concrete (asphalt bound with gravel and sand, pieces up to 2-1/2 inches in diameter, no odor) was observed at approximately 7.5, 12.5, and 15.5 feet bgs. In addition, concrete material was encountered between approximately 14.5 and 15 feet bgs. Groundwater was encountered at approximately 16 feet bgs during drilling and was measured to be at approximately 15.6 feet bgs after the total depth of 20 feet bgs was reached.

Depth-discrete soil samples were collected from soil boring SS-123(AA) for TPHd and TPHmo analyses from approximately 5.5, 7.5, 10.5, and 15.5 feet bgs, and from 18 feet bgs, which was below the apparent water table. A grab groundwater sample also was collected from this soil boring for TPHd and TPHmo analyses. TPHd and TPHmo were detected in each of the soil samples, but only the soil sample collected from approximately 18 feet bgs (below the water table) contained TPHd and TPHmo at concentrations above the ESLs (Table 2A and Figure 7). The grab groundwater sample collected from this soil boring also contained TPHd and TPHmo at concentrations that exceeded the ESLs for TPHd and TPHmo (Table 8A).

4.4.2 Temporary Soil Borings SS-123(F1) through SS-123(F3)

Soil borings SS-123(F1), SS-123(F2), and SS-123(F3) were located approximately 75 feet east, south, and west, respectively, of former boring SS-123(F) (Figure 7). These three soil borings were advanced to approximately 30 feet bgs. As noted on the soil boring logs in Appendix C, significant intervals of concrete or cement materials were encountered in each of the three soil borings. Depth-discrete soil samples and a grab groundwater sample were collected from each soil boring and analyzed for TPHd and TPHmo (Table 1). The grab groundwater samples also were analyzed for TPHg, VOCs, BTEX, fuel oxygenates, and lead scavengers (Table 1).

In soil boring SS-123(F1), concrete or cement material was encountered (and mostly ground to powder during drilling) between approximately 9 and 15 feet bgs and again between approximately 18 and 25 feet bgs. Fine-grained sediments were encountered from ground surface to approximately 9 feet bgs (gravelly silt) and from approximately 25 feet bgs to the total depth of the boring (clay). No evidence of petroleum

hydrocarbon was observed during field screening. Depth to groundwater was measured to be approximately 21 feet bgs after drilling was completed. Depth-discrete soil samples for laboratory analyses were collected from approximately 5 and 15 feet bgs, and a grab groundwater sample was collected.

In soil boring SS-123(F2), silty gravel and gravelly silt were encountered from ground surface to approximately 15 feet bgs, and mostly concrete or cement material was encountered from approximately 16.5 feet bgs to the total depth of the boring, resulting in relatively poor sample recovery (less than 25%). No evidence of petroleum hydrocarbon was observed during field screening. Depth to groundwater was measured to be approximately 26 feet bgs after drilling was completed. Depth-discrete soil samples were collected from 6, 10, 17, and 21 feet bgs, and a grab groundwater sample was collected.

In soil boring SS-123(F3), predominantly fine-grained sediments were encountered (clays or silts). Concrete or cement material was identified between approximately 7 and 10 feet bgs, a significantly shorter interval than was encountered in nearby soil borings SS-123(F1) and SS-123(F2). The depth to groundwater was measured at approximately 27 feet bgs after drilling was completed. Depth-discrete soil samples were collected from approximately 5, 10, 15, 20, and 25 feet bgs, and a grab groundwater sample was collected.

With one exception, TPHd and TPHmo were detected above laboratory reporting limits in all soil and grab groundwater samples collected from soil borings SS-123(F1) through SS-123(F3) (Table 2A). These compounds were not detected in the soil sample collected from approximately 20 feet bgs from boring SS-123(F3). For soil samples, all reported TPHd and TPHmo concentrations were below the ESLs (Table 2A).

For grab groundwater samples, the reported TPHd and TPHmo concentrations exceeded the ESLs only in the grab groundwater sample collected from boring SS-123(F2) (Table 8A). Other than TPHd and TPHmo, several VOCs were detected at low concentrations ranging between the detection limit to 4.6 μ g/L in the grab groundwater sample collected from boring SS-123(F2) (Tables 8A and 9). None of these VOC concentrations exceeded the ESLs, and no other compounds were detected. The VOCs detected in the grab groundwater sample from boring SS-123(F2) are associated with the elevated TPHd and TPHmo concentrations detected in this sample.

4.4.3 Investigation Results for the SS-123 Area

A review of analytical results for the SS-123 area shows that the lateral extent of petroleum-affected soil has been adequately characterized to the north, east, south, and west (Figure 7). The lateral extent of petroleum-affected groundwater has been adequately characterized to the west, north, and east, but not to the south. The analytical results for the grab groundwater sample collected from the southernmost soil boring, SS-123(F2), indicate the presence of TPHd and TPHmo concentrations that exceed the ESLs. Additional step-out grab groundwater sample locations will be

necessary to further characterize the extent of petroleum-affected groundwater to the south of former boring SS-123(F2).

The potential source of the petroleum hydrocarbon in groundwater in this area has not been characterized. ENV has concluded that the source of contamination in this area is a historical mining pit that was filled in with debris and sediment. In addition, ENV also concluded that the groundwater encountered in the SS-123 area is perched on relatively less permeable fill material or sediment. All investigations conducted in the SS-123 area have shown that groundwater is encountered at significantly shallower depths than in other areas of the Site. However, the presence of a perched groundwater interval has not been confirmed by investigations conducted to date.

4.5 Surface Sediment and Water Samples from the Storm-Water Retention Pond (AOC #6)

Analytical results for the four sediment samples (SED1 through SED4) collected from the storm-water retention pond are summarized in Tables 2A and 7, and sample locations are presented on Figure 5. TPHd and TPHmo were detected in each sediment sample, with the exception of the southeasternmost sediment sample (SED-1) in which TPHd was not detected above laboratory reporting limits (Figure 5). Only sample SED-3 contained a TPHd concentration that was equivalent to the ESL and therefore was highlighted in Table 2A as exceeding the ESL. Several metals were detected above the laboratory reporting limits, but, with only one exception, detected concentrations were below the ESL. Cobalt was detected in sample SED-4 at a concentration of 10 mg/Kg, which is equivalent to the ESL. As noted in Section 4.0, the concentration of cobalt detected in this sample is within the range of natural background concentrations for soil in the San Francisco Bay Area.

Analytical results for the composite surface-water sample (PW-2) are presented in Tables 8A, 8B, 9, and 10 and Figure 5. No petroleum hydrocarbons or VOCs were detected above laboratory reporting limits in the surface-water sample. Four metals were detected, but all at concentrations significantly less than the ESLs.

Based on the analytical results for the sediment and surface-water samples collected by LFR, there does not appear to be a significant impact to the storm-water retention pond from storm-water runoff from nearby properties. The elevated TPHd and TPHmo concentrations detected in the samples previously collected by B&C, labeled SEDIMENT and PONDWATER (Figure 5; B&C 2006b), were not confirmed. LFR does not recommend any additional investigations for the storm-water retention pond area.

5.0 SAMPLING OF EXISTING GROUNDWATER MONITORING WELLS

5.1 Wells Sampled and Sampling Methodology

5.1.1 Well TW-5

In accordance with the scope of work described in the Work Plan, LFR searched for missing groundwater monitoring well 3S/1E 14D1 (also known as well TW-5), reportedly installed approximately near the southwestern corner of Cope Pond. The date of installation and well construction information has not been included in the records kept by Zone 7. Zone 7 records indicate that the well could not be located in 1984 and was located in 2003. Verbally, Zone 7 stated that the well could not be found. According to Zone 7 records, this well is reported to be 103 feet deep.

LFR successfully located well TW-5 on July 12, 2007, during a site reconnaissance effort. The well was found to be in good condition with a 2-inch-diameter PVC well casing inside a 4-inch-square metal above-grade protective well box. LFR measured the depth to groundwater in the well to be 53.2 feet TOC and the total depth of the well to be approximately 110.7 feet TOC. On July 12, 2007, LFR purged and sampled well TW-5 using a disposable bailer. Purge water was disposed of on the ground surface in the vicinity of the well. Water-quality parameters were monitored during well purging and were recording on a field sheet (Appendix D). Purging was completed once water-quality parameters stabilized and at least three casing volumes were removed. Approximately 28 gallons of groundwater were purged from the well, equivalent to approximately three casing volumes. Groundwater samples collected from the well using the disposable bailer were poured into clean, laboratory-provided sample containers, properly labeled, and placed into an ice-chilled cooler for transport to the laboratory under chain-of-custody protocol. The samples were analyzed by C&T for TPHd, TPHmo, TPHg, VOCs, BTEX, fuel oxygenates, and lead scavengers.

5.1.2 Additional Monitoring Wells Sampled

On July 12, 2007, Hanson received a request from ENV (on behalf of Legacy) to collect samples from four existing wells (monitoring or water supply) located on or near the Hanson property. LFR, Hanson, and ENV together identified four existing groundwater monitoring wells to be sampled, namely: 3S/1E 14D1, 3S/1E 10D8, 3S/1E 10K2, and 3S/1E 10N3 (Figure 8). ENV requested that samples from each well be analyzed for TPHd, TPHmo, TPHg, VOCs, BTEX, fuel oxygenates, lead scavengers, SVOCs, and dissolved metals. One of the wells requested to be sampled was TW-5 (3S/1E 14D1), which LFR had already sampled. Fortunately, LFR had collected sufficient sample volume to request the laboratory to analyze the samples for the additional compounds requested by ENV.

At Hanson's request, LFR coordinated with Zone 7 to identify and gain access to the remaining three groundwater monitoring wells proposed to be sampled. LFR

subcontracted Blaine Tech Environmental Services ("Blaine Tech"), an environmental field services consultant from San Jose, California, to purge the three remaining groundwater monitoring wells on July 25, 2007. A summary of known or estimated well details is provided in the table below.

Well ID	Approximate Location	Well Diameter (inches)	Total Depth (Zone 7 Records) (feet bgs)	Well Screen Interval (Zone 7 Records) (feet bgs)	Depth to Groundwater on July 12 or July 25, 2007 (feet TOC)
3S/1E 14D1 (TW-5)	Southwestern corner of Cope Pond	2	103	Unknown	53.20
3S/1E 10D8	North of Lake I	2	215	190 - 210	56.32
3S/1E 10K2	Northwestern corner of Cope Pond	4	590.6	Unknown	55.50
3S/1E 10N3	South of Lake I	2	195	170 - 190	56.80

Blaine Tech used a 2-inch-diameter Rediflo electric submersible pump in the 2-inchdiameter wells and a 2-inch-diameter Grunfos pump in the 4-inch-diameter well to purge approximately three casing volumes from each of the three wells. Water-quality parameters were monitored and recorded on field sheets (Appendix D). Purging was completed once water-quality parameters stabilized and at least three casing volumes were removed. Purge water was temporarily contained in a plastic tank (estimated to be 500 gallons) on a trailer and was them disposed of in Cope Pond, in agreement with Zone 7 and Hanson. Approximately 75 gallons of purge water were removed from well 3S/1E 10D8, 1,043 gallons from well 3S/1E 10K2, and 64.5 gallons from well 3S/1E 10N3. After purging was completed at each well, groundwater samples were collected using a single-use disposal bailer. At ENV's request, a blind duplicate groundwater sample was collected from well 3S/1E 10K2. The blind duplicate sample was labeled "MW-10." As an additional quality assurance/quality control (QA/QC) measure, a trip blank sample was collected and analyzed for selected VOCs.

Groundwater samples were poured into clean, laboratory-provided sample containers, properly labeled, and placed into an ice-chilled cooler for transport to the laboratory under chain-of-custody protocol. The samples were analyzed by C&T for TPHd, TPHmo, TPHg, VOCs, BTEX, fuel oxygenates and lead scavengers, SVOCs, and dissolved metals.

5.2 Analytical Results

Analytical results for groundwater samples collected from the four existing groundwater monitoring wells are summarized in Tables 11A, 11B, 12, 13, and 14. Analytical results for TPHd, TPHmo, and TPHg also are presented on Figure 8.

Petroleum hydrocarbon-related compounds were not detected above laboratory reporting limits in any of the groundwater monitoring wells sampled, including TPHd, TPHmo, TPHg, BTEX, fuel oxygenates, and lead scavengers. In addition, VOCs were not detected in any of the groundwater samples, although the VOC bromomethane was detected at an estimated concentration below the laboratory reporting limit in the trip blank sample (Table 12). Because this compound was not detected in any of the groundwater samples, no QA/QC problems were noted. The groundwater sample collected from well 3S/1E 10D8 did contain a low concentration of one SVOC; bis(2-ethylhexyl)phthalate was detected at a concentration of 25 μ g/L. This concentration exceeded the ESL for this compound (4 μ g/L). Bis(2-ethylhexyl)phthalate is a plasticizer commonly associated with PVC and other plastics. This compound also is a known laboratory contaminant. The laboratory did not identify any evidence of laboratory contamination from this compound during the period that these groundwater samples were analyzed. The well casing for well 3S/1E 10D8 is made of PVC. It is possible that the presence of this SVOC may be due to the well casing and/or to the plastic tubing or fittings used to purge the well. Because no known use of plasticizers is associated with facilities and manufacturing processes historically present at the Site, it is assumed that this detection is not associated with historical industries. LFR recommends the re-sampling of this well to confirm this SVOC detection.

A few dissolved metals were detected above laboratory report limits, although, with only one exception, none of the detections exceeded the ESLs (Table 14). Dissolved mercury was detected in the groundwater sample collected from well 3S/1E 10D8 at a concentration of 0.63 μ g/L, which is above the ESL for mercury (0.012 μ g/L). No potential source of mercury has been identified, and mercury was not detected in any of the other groundwater samples. LFR also recommends the re-sampling of this well to confirm this detection.

6.0 SUMMARY AND RECOMMENDATIONS

6.1 Summary

The investigations conducted during July 2007 consisted of advancing a total of 16 temporary soil borings in AOCs #2, #4, #7, and #8, to depths ranging from approximately 10 to 70 feet bgs. The soil borings were advanced to collect continuous cores for lithologic logging and depth discrete soil samples and grab groundwater samples for laboratory analyses. Shallow sediment and surface-water samples were collected from the storm-water retention pond in AOC #6 for laboratory analyses. In

addition, four existing groundwater monitoring wells were sampled for laboratory analyses. All investigation and analytical results were presented and discussed in this report.

The primary compounds of concern at the Site are TPHd and TPHmo. No other organic compounds were detected, including TPHg, VOCs, BTEX, fuel oxygenates, lead scavengers, SVOCs, pesticides, PCBs, and SVOCs, in any soil samples collected from soil borings or samples collected from the storm-water retention pond. With one exception, none of these compounds were detected in any grab groundwater samples collected from the soil borings. Several VOCs were detected in one grab groundwater sample collected from the SS-123 area; however, concentrations were low and well below the ESLs.

Several metals were detected in soil or water samples, although only arsenic, cobalt, and chromium were detected in soil samples at concentrations that exceeded the ESLs. However, the metals concentrations that exceeded the ESLs are well within the concentration ranges published for naturally occurring metals detected in soils in the San Francisco Bay Area (LBNL 2002).

Groundwater samples collected from the existing monitoring wells did not contain organic compounds detected at concentrations above laboratory limits, with the exception of one SVOC. The compound bis(2-thylhexyl)phthalate was detected in one groundwater well sample at a concentration that exceeded the ESL. This compound is a known laboratory contaminant and a plasticizer commonly associated with PVC and other plastics. This same sample also contained dissolved mercury at a concentration greater than the ESL.

6.1 **Recommendations**

Results from investigations conducted by LFR during July 2007, evaluated in conjunction with results from previous investigations, indicate that AOCs #2, #6, and #7 have been sufficiently characterized. LFR does not recommend any additional investigations be conducted in these areas.

Additional subsurface investigations may be required in AOC #3 to confirm the analytical results for the grab groundwater sample collected from soil boring B-1(A) in which TPHmo was detected at a concentrations that exceeded the ESL. However, soil samples and a grab groundwater sample collected from less than 200 feet away from soil boring B-1(A) indicate that the petroleum hydrocarbon-affected soil (or groundwater) at this AOC is not a widespread problem.

LFR recommends that additional subsurface investigations be conducted in AOC #8 (SS-123 area) to further characterize the lateral extent of petroleum-affected groundwater south of soil boring SS-123(F2). Based on the results of the soil and groundwater samples collected in the SS-123 area, soil and groundwater quality has

been sufficiently characterized laterally to the west, north, and east. Previous consultants have concluded that groundwater in this area may be perched; the presence of a perched groundwater zone has not been confirmed.

To confirm the SVOC and dissolved mercury concentrations detected in the groundwater sample collected from existing monitoring well 3S/1E 10D8 located north of Lake I, LFR recommends re-sampling the well.

7.0 LIMITATIONS

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by LFR and the party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, express or implied, is intended or given. To the extent that LFR relied upon any information prepared by other parties not under contract to LFR, LFR makes no representation as to the accuracy or completeness of such information. This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared for a particular purpose. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

Results of any investigations or testing and any findings presented in this report apply solely to conditions existing at the time when LFR's investigative work was performed. It must be recognized that any such investigative or testing activities are inherently limited and do not represent a conclusive or complete characterization. Conditions in other parts of the Site may vary from those at the locations where data were collected. LFR's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100% confidence in environmental investigation conclusions cannot reasonably be achieved.

LFR, therefore, does not provide any guarantees, certifications, or warranties regarding any conclusions regarding environmental contamination of any such property. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.

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Sample	Sample ID	Date	Sample	Interval	Matrix	TPHd /	TPHg	VOCs	BTEX			Pest	PCBs	SVOCs	Metals
Location		Sampled	top (feet bgs)	bottom (feet bgs)		TPHmo				Ox	Scav				
Depth Discrete	Soil Samples from Te	mporary Soil B	orings												
AOC 3	B-1(A)-4.5	7/17/2007	4	4.5	soil	Х	х	-	-	-	-	-	х	Х	х
AOC 3	B-1(A)-9.5	7/17/2007	9	9.5	soil	Х	х	-	-	-	-	-	х	Х	х
AOC 3	B-1(A)-35	7/17/2007	34.5	35	soil	Х	-	-	-	-	-	-	-	-	-
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	х	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(A)-10.5	7/17/2007	10	10.5	soil	Х	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(A)-15.5	7/17/2007	15	15.5	soil	Х	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(A)-20.5	7/17/2007	20	20.5	soil	Х	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(B)-5.5	7/16/2007	5	5.5	soil	Х	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(B)-10.5	7/16/2007	10	10.5	soil	Х	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(B)-15.5	7/16/2007	15	15.5	soil	Х	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(B)-20.5	7/16/2007	20	20.5	soil	х	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(C)-5	7/16/2007	4.5	5	soil	х	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(C)-10.5	7/16/2007	10	10.5	soil	х	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(C)-15.5	7/16/2007	15	15.5	soil	Х	-	-	-	-	-	-	-	-	-
AOC 2	EB-31(C)-20	7/16/2007	20	20.5	soil	х	-	-	-	-	-	-	-	-	-
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	х	-	-	-	-	-	-	-	-	-
AOC 3	EB-35(A)-9.5	7/17/2007	9	9.5	soil	х	-	-	-	-	-	-	-	-	-
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	х	-	-	-	-	-	-	-	-	-
AOC 3	EB-35(B)-9	7/17/2007	8.5	9	soil	Х	-	-	-	-	-	-	-	-	-
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	Х	-	-	-	-	-	-	-	-	-
AOC 3	EB-35(C)-10.5	7/18/2007	10	10.5	soil	Х	-	-	-	-	-	-	-	-	-
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	х	-	-	-	-	-	-	-	-	-
AOC 3	EB-35(D)-9.5	7/18/2007	9	9.5	soil	х	-	-	-	-	-	-	-	-	-
AOC 7	SS-31(A)-5.5	7/18/2007	5	5.5	soil	х	х	-	х	х	х	х	х	х	Х
AOC 7	SS-31(A)-10.5	7/18/2007	10	10.5	soil	х	х	-	х	х	х	х	х	х	х
AOC 7	SS-31(A)-15.5	7/18/2007	15	15.5	soil	х	х	-	х	х	х	-	-	-	-

Table 1 - Sample MatrixSamples from Temporary Soil Borings, Storm-Water Pond, and Existing Groundwater Monitoring WellsHanson Radum Facility, 3000 Busch Road, Pleasanton, California

rpt-HansonRadum-SiteWideInvest-tbls-Oct07-09567.xls

Sample Location	Sample ID	Date Sampled	Sample top (feet bgs)	Interval bottom (feet bgs)	Matrix	TPHd / TPHmo	TPHg	VOCs	BTEX	Fuel Ox	Lead Scav	Pest	PCBs	SVOCs	Metals
AOC 7	SS-31(A)-20.5	7/18/2007	20	20.5	soil	X	x	_	х	х	х				
AOC 7	SS-31(A)-25.5	7/18/2007	20 25	20.5 25.5	soil	X	X	_	л Х	л Х	л Х	-	_	_	-
AOC 7	SS-31(A)-30.5	7/18/2007	30	30.5	soil	X	X	_	X	X	X	_			_
AOC 7	SS-31(A)-40.5	7/19/2007	30 40	40.5	soil	X	х	-	л Х	х	л Х	-	_	_	-
AOC 7	SS-31(A)-50.5	7/19/2007	50	50.5	soil	X	х	_	Х	х	х	_			_
AOC 7	SS-31(A)-52.5	7/19/2007	50 52	50.5 52.5	soil	X	х	_	х	х	х	_			_
AOC 7	SS-31(A)-60.5	7/19/2007	60	60.5	soil	X	X	_	Х	X	X	_			_
AOC 7	SS-31(A)-65.5	7/19/2007	65	65.5	soil	- -	л -	_	-	-	л -	_			_
AOC 7	SS-31(B)-5.5	7/19/2007	5	5.5	soil	x	x	_	X	x	x	x	x	x	x
AOC 7	SS-31(B)-10.5	7/19/2007	10	10.5	soil	X	X	_	X	X	X	X	X	X	X
AOC 7	SS-31(B)-15.5	7/19/2007	15	15.5	soil	X	X	_	X	X	X	-	-	-	-
AOC 7	SS-31(B)-20.5	7/19/2007	20	20.5	soil	X	X	_	Х	X	X	_	_		_
AOC 7	SS-31(B)-25.5	7/19/2007	25	25.5	soil	X	X	_	X	X	X	_	_	_	_
AOC 7	SS-31(B)-30.5	7/19/2007	30	30.5	soil	x	X	_	X	X	X	_	_	_	_
AOC 7	SS-31(B)-40	7/19/2007	39.5	40	soil	X	X	_	X	X	X	_	_	_	_
AOC 7	SS-31(B)-50	7/19/2007	49.5	50	soil	X	X	_	X	X	X	-	_	-	-
AOC 7	SS-31(B)-60.5	7/19/2007	60	60.5	soil	x	X	_	X	X	X	_	_	_	_
AOC 7	SS-31(C)-5.5	7/20/2007	5	5.5	soil	X	X	_	X	X	X	х	х	х	х
AOC 7	SS-31(C)-10.5	7/20/2007	10	10.5	soil	x	X	_	X	X	X	X	X	X	x
AOC 7	SS-31(C)-15.5	7/20/2007	15	15.5	soil	X	X	_	X	X	X	-	-	-	-
AOC 7	SS-31(C)-19.5	7/20/2007	19	19.5	soil	X	X	_	X	X	X	_	_	_	_
AOC 7	SS-31(C)-25.5	7/20/2007	25	25.5	soil	x	x	_	X	x	X	_	_	_	_
AOC 7	SS-31(C)-30	7/20/2007	29.5	30	soil	X	X	_	X	X	X	-	_	-	-
AOC 7	SS-31(C)-40	7/20/2007	39.5	40	soil	x	x	_	X	x	X	_	-	-	-
AOC 7	SS-31(C)-51	7/20/2007	50.5	51	soil	x	x	_	X	x	X	-	-	-	-
AOC 7	SS-31(C)-60.5	7/20/2007	60	60.5	soil	x	x	_	x	x	X	_	-	-	-
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	х	х	_	х	х	х	х	х	х	х
AOC 7	SS-31(D)-10.5	7/20/2007	10	10.5	soil	x	x	_	X	x	X	x	x	X	x
AOC 7	SS-31(D)-15	7/20/2007	14.5	15	soil	x	x	_	x	x	X	-	-	-	-
AOC 7	SS-31(D)-19.5	7/20/2007	19	19.5	soil	x	x	-	X	x	X	-	-	_	_
AOC 7	SS-31(D)-25	7/23/2007	24.5	25	soil	x	x	-	x	x	X	-	-	_	_
AOC 7	SS-31(D)-30	7/23/2007	29.5	30	soil	x	x	-	X	x	X	-	-	_	_
AOC 7	SS-31(D)-40	7/23/2007	39.5	40	soil	x	x		x	x	X				

Table 1 - Sample MatrixSamples from Temporary Soil Borings, Storm-Water Pond, and Existing Groundwater Monitoring WellsHanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample	Sample ID	Date	Sample	Interval	Matrix	TPHd /	TPHg	VOCs	BTEX	Fuel		Pest	PCBs	SVOCs	Metals
Location		Sampled	top (feet bgs)	bottom (feet bgs)		TPHmo				Ox	Scav				
AOC 7	SS-31(D)-50.5	7/23/2007	50	50.5	soil	X	х	-	Х	Х	Х	-	-	-	-
AOC 7	SS-31(D)-60.5	7/23/2007	60	60.5	soil	х	Х	-	Х	Х	Х	-	-	-	-
AOC 8	SS-123(AA)-5.5	7/24/2007	5	5.5	soil	х	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(AA)-7.5	7/24/2007	7	7.5	soil	Х	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(AA)-10.5	7/24/2007	10	10.5	soil	Х	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(AA)-15.5	7/24/2007	15	15.5	soil	Х	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(AA)-18	7/24/2007	17.5	18	soil	Х	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F1)-5.5	7/23/2007	5	5.5	soil	Х	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F1)-15.5	7/23/2007	15	15.5	soil	Х	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F2)-6	7/23/2007	5.5	6	soil	Х	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F2)-11.5	7/23/2007	11	11.5	soil	Х	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F2)-16.5	7/23/2007	16	16.5	soil	Х	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F2)-21	7/24/2007	20.5	21	soil	Х	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F3)-5.5	7/24/2007	5	5.5	soil	Х	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F3)-10.5	7/24/2007	10	10.5	soil	Х	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F3)-15.5	7/24/2007	15	15.5	soil	Х	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F3)-20.5	7/24/2007	20	20.5	soil	Х	-	-	-	-	-	-	-	-	-
AOC 8	SS-123(F3)-25.5	7/24/2007	25	25.5	soil	Х	-	-	-	-	-	-	-	-	-
Sediment Sampl	es from Storm-Water F	Retention Pond													
AOC 6	SED-1	7/13/2007	0	0.5	soil	Х	-	-	-	-	-	-	-	-	х
AOC 6	SED-2	7/13/2007	0	0.5	soil	Х	-	-	-	-	-	-	-	-	х
AOC 6	SED-3	7/13/2007	0	0.5	soil	Х	-	-	-	-	-	-	-	-	х
AOC 6	SED-4	7/13/2007	0	0.5	soil	Х	-	-	-	-	-	-	-	-	х

Table 1 - Sample MatrixSamples from Temporary Soil Borings, Storm-Water Pond, and Existing Groundwater Monitoring WellsHanson Radum Facility, 3000 Busch Road, Pleasanton, California

	formula ID	Dete	<u> </u>	Internal	Matula		TDUL	NOC	DTEV	E	Land	Deef	DCD-	SVOC-	
Sample Location	Sample ID	Date Sampled	top (feet bgs)	Interval bottom (feet bgs)	Matrix	TPHd / TPHmo	TPHg	VOCs	BTEX	Fuel Ox	Lead Scav	Pest	PCBs	SVOCs	Metals
Grab Groundwa	ter Samples from Temp	orary Soil Bo	orings												
AOC 3	B-1(A)-GGW	7/18/2007	~ 67.6	~ 67.6	water	Х	х	х	х	х	х	-	-	-	-
AOC 2	EB-31(B)-GGW	7/16/2007	~ 64.8	~ 64.8	water	Х	х	х	х	х	х	-	-	-	-
AOC 7	SS-31(A)-GGW	7/19/2007	~ 65.2	~ 65.2	water	Х	х	х	х	х	х	-	-	-	-
AOC 7	SS-31(B)-GGW	7/20/2007	~ 66	~ 66	water	Х	х	х	х	х	х	-	-	-	-
AOC 7	SS-31(C)-GGW	7/20/2007	~ 66	~ 66	water	Х	х	х	х	х	х	-	-	-	-
AOC 7	SS-31(D)-GGW	7/23/2007	~ 66.8	~ 66.8	water	Х	х	х	х	х	х	-	-	-	-
AOC 8	SS-123(AA)-GGW	7/24/2007	~15.7	~15.7	water	Х	х	х	х	х	х	-	-	-	-
AOC 8	SS-123(F1)-GGW	7/23/2007	~ 20.8	~ 20.8	water	Х	х	х	х	х	х	-	-	-	-
AOC 8	SS-123(F2)-GGW	7/24/2007	~ 25.8	~ 25.8	water	Х	х	Х	х	х	х	-	-	-	-
AOC 8	SS-123(F3)-GGW	7/24/2007	~ 26.9	~ 26.9	water	Х	х	Х	х	х	х	-	-	-	-
Grab Surface We	ater Sample from Storn	n-Water Reten	tion Pond												
AOC 6	PW-2	7/13/2007	surface	surface	water	Х	Х	х	Х	х	Х	-	-	-	Х
Groundwater Sa	mples from Monitoring	Wells													
3S/1E 14D1	TW-5	7/12/2007	~ 50	~ 50	water	Х	х	Х	х	х	х	-	-	х	Х
3S/1E 10D8	3S/1E 10D8	7/25/2007	~ 200	~ 200	water	Х	х	х	х	х	х	-	-	х	х
3S/1E 10K2	3S/1E 10K2	7/25/2007	~ 300	~ 300	water	Х	х	х	х	х	х	-	-	х	х
3S/1E 10K2	MW-10 *	7/25/2007	~ 300	~ 300	water	Х	х	х	х	х	х	-	-	х	Х
3S/1E 10N3	3S/1E 10N3	7/25/2007	~ 180	~ 180	water	Х	х	х	х	х	х	-	-	х	х
Trip Blank	TB-072507	7/25/2007	na	na	water	Х	Х	Х	х	х	х	-	-	х	х

Table 1 - Sample Matrix Samples from Temporary Soil Borings, Storm-Water Pond, and Existing Groundwater Monitoring Wells

Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Notes: TPHd = total petroleum hydrocarbons as diesel by EPA Method 8015 (after silica gel cleanup)AOC = area of concernTPHmo = total petroleum hydrocarbons as motor oil by EPA Method 8015 (after silica gel cleanup) feet bgs = feet below ground surface TPHg = total petroleum hydrocarbons as gasoline by EPA Method 8015 (soil) and 8260 (water) " \sim " = approximate sample depth VOCs = volatile organic compounds by EPA Method 8260 "1" = analyzed BTEX = benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260 "-" = not analyzed Fuel Ox = fuel oxygenates by EPA Method 8260 na = not applicableLead Scav = lead scavengers by EPA Method 8260* MW-10 = blind duplicate of 3S/1E 10K2 Pest = organochlorine pesticides by EPA Method 8081 PCBs = polychlorinated biphenyls by EPA Method 8082 SVOCs = semivolatile organic compounds by EPA Method 8270 Metals = CAM17 metals (total concentrations in soil samples; dissolved concentrations in water samples) by EPA Method 6010

(Concentrations reported in milligrams per kilogram (mg/Kg) or micrograms per kilogram (ug/Kg), as noted)

Sample	Sample ID	Date	Sample	Interval	Matrix	Total Pet	roleum Hydr	ocarbons		BT	EX compou	nds	
Location		Sampled	top (feet bgs)	bottom (feet bgs)		TPHd (mg/Kg)	TPHmo (mg/Kg)	TPHg (mg/Kg)	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

(Concentrations reported in milligrams per kilogram (mg/Kg) or micrograms per kilogram (ug/Kg), as noted)

	SS-31(A)-20.5 SS-31(A)-25.5	Sampled 7/18/2007	-	bottom (feet bgs)		TPHd	TDU						
	SS-31(A)-25.5	7/18/2007	-) (feet bgs)			TPHmo	TPHg	В	T	E	m,p-X	o-X
	SS-31(A)-25.5	7/18/2007				(mg/Kg)	(mg/Kg)	(mg/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)
	• •		20	20.5	soil	<1	< 5	<1	<4.6	<4.6	<4.6	<4.6	<4.6
AUC / S		7/18/2007	25	25.5	soil	<1	< 5	<1	<4.8	<4.8	<4.8	<4.8	<4.8
AOC 7 S	SS-31(A)-30.5	7/18/2007	30	30.5	soil	< 0.99	<5	< 0.98	< 5	<5	<5	< 5	<5
AOC 7 S	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 S	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 S	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 S	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 S	SS-31(A)-65.5	7/19/2007	65	65.5	soil	-	-	-	-	-	-	-	-
AOC 7 S	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 S	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 S	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 S	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 S	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 S	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 S	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 S	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 S	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 S	SS-31(C)-5.5	7/20/2007	5	5.5	soil	2 HYZ	< 5	<1	<5	<5	<5	<5	<5
AOC 7 S	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 S	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 S	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 S	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 S	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 S	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 S	SS-31(C)-51	7/20/2007	50.5	51	soil	< 0.99	< 5	< 0.99	< 5	<5	<5	<5	<5
AOC 7 S	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 S	SS-31(C)-67.5	7/20/2007	67	67.5	soil	-	-	-	-	-	-	-	-
AOC 7 S	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 S	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 S	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 S	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 S	SS-31(D)-25	7/23/2007	24.5	25	soil	< 0.99	<5	<1	<5	<5	<5	<5	<5

(Concentrations reported in milligrams per kilogram (mg/Kg) or micrograms per kilogram (ug/Kg), as noted)

Sample	Sample ID	Date	Sample	e Interval	Matrix	Total Petr	oleum Hydr	ocarbons		BTI	EX compou	nds	
Location		Sampled	top (feet bg:	bottom s) (feet bgs)		TPHd (mg/Kg)	TPHmo (mg/Kg)	TPHg (mg/Kg)	B (ug/Kg)	T (ug/Kg)	E (ug/Kg)	m,p-X (ug/Kg)	o-X (ug/Kg)
			(leet bgs	s) (leet bgs)		(ing/Kg)	(ing/ Kg)	(IIIg/Kg)	(ug/kg)	(ug/kg)	(ug/Kg)	(ug/kg)	(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

(Concentrations reported in milligrams per kilogram (mg/Kg) or micrograms per kilogram (ug/Kg), as noted)

Sample Sample ID	Date	Sample Interval	Matrix	Total Pet	roleum Hydr	ocarbons		BT	EX compou	Inds	
Location	Sampled	top bottom (feet bgs) (feet bgs)		TPHd (mg/Kg)	TPHmo (mg/Kg)	TPHg (mg/Kg)	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 hydrocarbon	s as diesel										
TPHmo = total petroleum hydrocarbo	ons as motor oil										
TPHg = total petroleum hydrocarbon	s as gasoline										
BTEX = benzene, toluene, ethylbenze	ene, and total xy	lenes									
B = benzene											
T = toluene											
E = ethylbenzene											
m,p-X = m,p-xylenes											
o-X = o-xylenes											
bold indicates that the compound was			t.								
1,500 H boxed values exceed the	e respective ESL										
" < " = not detected above the laboration of t	tory report give	n									
"-" = sample not analyzed											
H = heavier hydrocarbons contributed	d to the quantitat	tion									
L = lighter hydrocarbons contributed	to the quantitati	on									
Y = sample exhibites chromatographi	c pattern which	does not resemble standard									
Z = sample exhibits unknown single j	peak or peaks										

Sample	Sample ID	Date	Sample	Interval	Matrix		Fu	iel Oxygena	tes		Lead Sca	avengers
Location	·	Sampled	top (feet bgs)	bottom (feet bgs)		MTBE (ug/Kg)	TAME (ug/Kg)	DIPE (ug/Kg)	ETBE (ug/Kg)	TBA (ug/Kg)	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

(Concentrations reported in micrograms per kilograms (ug/Kg))

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Sample	Sample ID	Date	Sample	Interval	Matrix			el Oxygenat				avengers
Location		Sampled	top	bottom		MTBE	TAME	DIPE	ETBE	TBA	EDB	EDC
			(feet bgs)	(feet bgs)		(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(ug/Kg)	(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

(Concentrations reported in micrograms per kilograms (ug/Kg))

Sample	Sample ID	Date	Sample	Interval	Matrix		Fu	el Oxygena	tes		Lead Sc	avengers
Location		Sampled	top (feet bgs)	bottom (feet bgs)		MTBE (ug/Kg)	TAME (ug/Kg)	DIPE (ug/Kg)	ETBE (ug/Kg)	TBA (ug/Kg)	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				shallow or	deep soils	23	-	-	-	73	0.33	4.5

(Concentrations reported in micrograms per kilograms (ug/Kg))

(Concentrations reported in micrograms per kilograms (ug/Kg))

Sample	Sample ID	Date	Sample	Interval	Matrix		Fu	el Oxygena	tes		Lead Sca	avengers
Location		Sampled	top (feet bgs)	bottom (feet bgs)		MTBE (ug/Kg)	TAME (ug/Kg)	DIPE (ug/Kg)	ETBE (ug/Kg)	TBA (ug/Kg)	EDB (ug/Kg)	EDC (ug/Kg)
Notes:												
feet bgs = feet b	elow ground surface											
ug/Kg = microg	rams per kilogram											
MTBE = methyl	l tert-butyl ether											
TAME = tert-an	nyl methyl ether (methyl	l tert-amyl ether)										
DIPE = diisopro	opyl ether (isopropyl ethe	er)										
ETBE = ethyl te	ert-butyl ether											
TBA = tert-buty	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

	B-1(A)-4.5 B-1(A)-9.5 B-1(A)-35 B-1(A)-36.5 EB-31(A)-5.5 EB-31(A)-10.5 EB-31(A)-10.5 EB-31(A)-20.5 EB-31(B)-5.5 EB-31(B)-10.5 EB-31(B)-15.5 EB-31(B)-20.5 EB-31(C)-5	Sampled 7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/16/2007 7/16/2007 7/16/2007	top (feet bgs) 4 9 34.5 36 5 10 15 20 5 10	bottom (feet bgs) 4.5 9.5 35 36.5 5.5 10.5 15.5 20.5	soil soil soil soil soil soil soil	- - - - - -
AOC 3 AOC 3 AOC 2 AOC 2	$\begin{array}{c} B-1(A)-9.5\\ B-1(A)-35\\ B-1(A)-36.5\\ EB-31(A)-5.5\\ EB-31(A)-10.5\\ EB-31(A)-15.5\\ EB-31(A)-20.5\\ EB-31(B)-5.5\\ EB-31(B)-10.5\\ EB-31(B)-15.5\\ EB-31(B)-15.5\\ EB-31(B)-20.5\\ \end{array}$	7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/16/2007 7/16/2007	4 9 34.5 36 5 10 15 20 5	4.5 9.5 35 36.5 5.5 10.5 15.5 20.5	soil soil soil soil soil soil	
AOC 3 AOC 3 AOC 2 AOC 2	$\begin{array}{c} B-1(A)-9.5\\ B-1(A)-35\\ B-1(A)-36.5\\ EB-31(A)-5.5\\ EB-31(A)-10.5\\ EB-31(A)-15.5\\ EB-31(A)-20.5\\ EB-31(B)-5.5\\ EB-31(B)-10.5\\ EB-31(B)-15.5\\ EB-31(B)-15.5\\ EB-31(B)-20.5\\ \end{array}$	7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/16/2007 7/16/2007	9 34.5 36 5 10 15 20 5	9.5 35 36.5 5.5 10.5 15.5 20.5	soil soil soil soil soil soil	- - - - - -
AOC 3 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2	B-1(A)-35 B-1(A)-36.5 EB-31(A)-5.5 EB-31(A)-10.5 EB-31(A)-15.5 EB-31(A)-20.5 EB-31(B)-5.5 EB-31(B)-10.5 EB-31(B)-15.5 EB-31(B)-20.5	7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/16/2007 7/16/2007	34.5 36 5 10 15 20 5	35 36.5 5.5 10.5 15.5 20.5	soil soil soil soil soil	
AOC 3 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2	B-1(A)-36.5 EB-31(A)-5.5 EB-31(A)-10.5 EB-31(A)-15.5 EB-31(A)-20.5 EB-31(B)-5.5 EB-31(B)-10.5 EB-31(B)-15.5 EB-31(B)-20.5	7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/16/2007 7/16/2007	36 5 10 15 20 5	36.5 5.5 10.5 15.5 20.5	soil soil soil soil	- - - -
AOC 2 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2	EB-31(A)-5.5 EB-31(A)-10.5 EB-31(A)-15.5 EB-31(A)-20.5 EB-31(B)-5.5 EB-31(B)-10.5 EB-31(B)-15.5 EB-31(B)-20.5	7/17/2007 7/17/2007 7/17/2007 7/17/2007 7/16/2007 7/16/2007	5 10 15 20 5	5.5 10.5 15.5 20.5	soil soil soil	- - -
AOC 2 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2	EB-31(A)-10.5 EB-31(A)-15.5 EB-31(A)-20.5 EB-31(B)-5.5 EB-31(B)-10.5 EB-31(B)-15.5 EB-31(B)-20.5	7/17/2007 7/17/2007 7/17/2007 7/16/2007 7/16/2007	10 15 20 5	10.5 15.5 20.5	soil soil	- -
AOC 2 AOC 2 AOC 2 AOC 2 AOC 2 AOC 2	EB-31(A)-15.5 EB-31(A)-20.5 EB-31(B)-5.5 EB-31(B)-10.5 EB-31(B)-15.5 EB-31(B)-20.5	7/17/2007 7/17/2007 7/16/2007 7/16/2007	15 20 5	15.5 20.5	soil	-
AOC 2 AOC 2 AOC 2 AOC 2 AOC 2	EB-31(A)-20.5 EB-31(B)-5.5 EB-31(B)-10.5 EB-31(B)-15.5 EB-31(B)-20.5	7/17/2007 7/16/2007 7/16/2007	20 5	20.5		-
AOC 2 AOC 2 AOC 2 AOC 2	EB-31(B)-5.5 EB-31(B)-10.5 EB-31(B)-15.5 EB-31(B)-20.5	7/16/2007 7/16/2007	5		1	
AOC 2 AOC 2 AOC 2	EB-31(B)-10.5 EB-31(B)-15.5 EB-31(B)-20.5	7/16/2007			soil	-
AOC 2 AOC 2	EB-31(B)-15.5 EB-31(B)-20.5		10	5.5	soil	-
AOC 2	EB-31(B)-20.5	7/16/2007	10	10.5	soil	-
			15	15.5	soil	-
AOC 2	EB-31(C)-5	7/16/2007	20	20.5	soil	-
		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	-
	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	ND
AOC 7	SS-31(A)-10.5	7/18/2007	10	10.5	soil	ND
AOC 7	SS-31(A)-15.5	7/18/2007	15	15.5	soil	ND
AOC 7	SS-31(A)-20.5	7/18/2007	20	20.5	soil	ND
AOC 7	SS-31(A)-25.5	7/18/2007	25	25.5	soil	ND
AOC 7	SS-31(A)-30.5	7/18/2007	30	30.5	soil	ND
AOC 7	SS-31(A)-40.5	7/19/2007	40	40.5	soil	ND
AOC 7	SS-31(A)-50.5	7/19/2007	50	50.5	soil	ND
AOC 7	SS-31(A)-52.5	7/19/2007	52	52.5	soil	ND
AOC 7	SS-31(A)-60.5	7/19/2007	60	60.5	soil	ND
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	ND
AOC 7	SS-31(B)-10.5	7/19/2007	10	10.5	soil	ND
AOC 7	SS-31(B)-15.5	7/19/2007	15	15.5	soil	ND
AOC 7	SS-31(B)-20.5	7/19/2007	20	20.5	soil	ND
AOC 7	SS-31(B)-25.5	7/19/2007	25	25.5	soil	ND
AOC 7	SS-31(B)-30.5	7/19/2007	30	30.5	soil	ND
AOC 7 AOC 7	SS-31(B)-40 SS-31(B)-50	7/19/2007 7/19/2007	39.5 49.5	40 50	soil soil	ND ND

Table 3 - Summary of Analytical Results of Volatile Organic Compounds Detected in Soil Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample	Sample ID	Date	-	Interval	Matrix	VOCs *
Location		Sampled	top (feet bgs)	bottom (feet bgs)		
AOC 7	SS-31(B)-60.5	7/19/2007	60	60.5	soil	ND
AOC 7	SS-31(C)-5.5	7/20/2007	5	5.5	soil	ND
AOC 7	SS-31(C)-10.5	7/20/2007	10	10.5	soil	ND
AOC 7	SS-31(C)-15.5	7/20/2007	15	15.5	soil	ND
AOC 7	SS-31(C)-19.5	7/20/2007	19	19.5	soil	ND
AOC 7	SS-31(C)-25.5	7/20/2007	25	25.5	soil	ND
AOC 7	SS-31(C)-30	7/20/2007	29.5	30	soil	ND
AOC 7	SS-31(C)-40	7/20/2007	39.5	40	soil	ND
AOC 7	SS-31(C)-51	7/20/2007	50.5	51	soil	ND
AOC 7	SS-31(C)-60.5	7/20/2007	60	60.5	soil	ND
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	ND
AOC 7	SS-31(D)-10.5	7/20/2007	10	10.5	soil	ND
AOC 7	SS-31(D)-15	7/20/2007	14.5	15	soil	ND
AOC 7	SS-31(D)-19.5	7/20/2007	19	19.5	soil	ND
AOC 7	SS-31(D)-25	7/23/2007	24.5	25	soil	ND
AOC 7	SS-31(D)-30	7/23/2007	29.5	30	soil	ND
AOC 7	SS-31(D)-40	7/23/2007	39.5	40	soil	ND
AOC 7	SS-31(D)-50.5	7/23/2007	50	50.5	soil	ND
AOC 7	SS-31(D)-60.5	7/23/2007	60	60.5	soil	ND
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	-

Table 3 - Summary of Analytical Results of Volatile Organic Compounds Detected in Soil Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

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

Sample	Sample ID	Date	Sample	Interval	Matrix	SVOCs *
Location		Sampled	top	bottom		
			(feet bgs)	(feet bgs)		
AOC 3	B-1(A)-4.5	7/17/2007	4	4.5	soil	ND
AOC 3	B-1(A)-9.5	7/17/2007	9	9.5	soil	ND
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)-2.5 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	ND
AOC 7	SS-31(A)-10.5	7/18/2007	10	10.5	soil	ND
AOC 7	SS-31(A)-15.5	7/18/2007	10	15.5	soil	
AOC 7 AOC 7	SS-31(A)-15.5 SS-31(A)-20.5	7/18/2007	20	20.5	soil	-
AOC 7 AOC 7	SS-31(A)-25.5	7/18/2007	20 25	20.3 25.5	soil	-
AOC 7 AOC 7	SS-31(A)-25.5 SS-31(A)-30.5	7/18/2007	23 30	23.5 30.5	soil	-
AOC 7 AOC 7		7/19/2007	30 40	30.3 40.5	soil	-
	SS-31(A)-40.5		40 50			-
AOC 7	SS-31(A)-50.5	7/19/2007		50.5	soil	-
AOC 7	SS-31(A)-52.5	7/19/2007	52 60	52.5	soil	-
AOC 7	SS-31(A)-60.5	7/19/2007	60 65	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	ND
AOC 7	SS-31(B)-10.5	7/19/2007	10	10.5	soil	ND
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	-

Table 4 - Summary of Analytical Results of Semivolatile Organic Compounds Detected in Soil Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample Location	Sample ID	Date Sampled	Sample top (feet bgs)	Interval bottom (feet bgs)	Matrix	SVOCs *
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	ND
AOC 7	SS-31(C)-10.5	7/20/2007	10	10.5	soil	ND
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	ND
AOC 7	SS-31(D)-10.5	7/20/2007	10	10.5	soil	ND
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	-
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 25	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	-

Table 4 - Summary of Analytical Results of Semivolatile Organic Compounds Detected in Soil Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Notes:

* No SVOCs were detected above their respective laboratory limits in any of these samples.

SVOCs = semivolatile organic compounds

feet bgs = feet below ground surface

"-" = sample not analyzed

ND = not detected

Sample	Sample ID	Date	Sample	Interval	Matrix	Organochlorine
Location		Sampled	top (feet bgs)	bottom (feet bgs)		Pesticides *
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 AOC 2	EB-31(C)-10.5 EB-31(C)-15.5	7/16/2007	10	15.5	soil	-
AOC 2 AOC 2	EB-31(C)-15.5 EB-31(C)-20.5	7/16/2007	13 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	2.3 3.5	3 4	soil	-
	• •	7/17/2007				-
AOC 3	EB-35(A)-9.5		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	ND
AOC 7	SS-31(A)-10.5	7/18/2007	10	10.5	soil	ND
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	-
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	ND
AOC 7	SS-31(B)-10.5	7/19/2007	10	10.5	soil	ND
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	

Table 5 - Summary of Analytical Results of Organochlorine Pesticides Detected in Soil Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample	Sample ID	Date	Sample	Interval	Matrix	Organochlorine
Location		Sampled	top (feet bgs)	bottom (feet bgs)		Pesticides *
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	ND
AOC 7	SS-31(C)-10.5	7/20/2007	10	10.5	soil	ND
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	ND
AOC 7	SS-31(D)-10.5	7/20/2007	10	10.5	soil	ND
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	-
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	-

Table 5 - Summary of Analytical Results of Organochlorine Pesticides Detected in Soil Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

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

Sample	Sample ID	Date	Sample	Interval	Matrix	PCBs *
Location		Sampled	top	bottom		
			(feet bgs)	(feet bgs)		
AOC 3	B-1(A)-4.5	7/17/2007	4	4.5	soil	ND
AOC 3	B-1(A)-9.5	7/17/2007	9	9.5	soil	ND
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	ND
AOC 7	SS-31(A)-10.5	7/18/2007	10	10.5	soil	ND
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	-
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	ND
AOC 7 AOC 7	SS-31(B)-10.5	7/19/2007	10	10.5	soil	ND ND
AOC 7 AOC 7	SS-31(B)-10.5 SS-31(B)-15.5	7/19/2007	10	15.5	soil	-
AOC 7 AOC 7	SS-31(B)-13.5 SS-31(B)-20.5	7/19/2007	20	20.5	soil	-
AOC 7 AOC 7	SS-31(B)-20.5 SS-31(B)-25.5	7/19/2007	20 25	20.3 25.5	soil	-
AOC 7 AOC 7	SS-31(B)-25.5 SS-31(B)-30.5	7/19/2007	23 30	23.5 30.5	soil	-
AUC /	()	7/19/2007	30 39.5	30.5 40	soil	-
AOC 7	SS-31(B)-40	·/////////////////////////////////////				

Table 6 - Summary of Analytical Results of Polychlorinated Biphenyls Detected in Soil Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample	Sample ID	Date	Sample	Interval	Matrix	PCBs *
Location		Sampled	top (feet bgs)	bottom (feet bgs)		
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	ND
AOC 7	SS-31(C)-10.5	7/20/2007	10	10.5	soil	ND
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	ND
AOC 7	SS-31(D)-10.5	7/20/2007	10	10.5	soil	ND
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	-
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 25	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	-

Table 6 - Summary of Analytical Results of Polychlorinated Biphenyls Detected in Soil Samples Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Notes:

* No organochlorine pesticides 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

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 Sample ID	Date	Sample	Interval	Matrix								Tot	al Meta	als (mg/	/Kg)						
Location	Sampled	top	bottom		Ag	As	Ba	Be	Cd	Со	Cr	Cu	Hg	Мо	Ni	Pb	Sb	Se	ΤI	V	Zn
		(feet bgs)	(feet bgs)																		
AOC 3 B-1(A)-4.5	7/17/2007	4	4.5	soil	< 0.25	4.2	160		< 0.25			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		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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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))

	Date	Sample	Interval	Matrix							То	tal Meta	als (mg/	Kg)							
	Sampled	top	bottom		Ag	As	Ba	Be	Cd	Co C	r Cu	Hg	Мо	Ni	Pb	Sb	Se	ΤI	V	Zn	
		(feet bgs)	(feet bgs)																		
SS-31(A)-30.5	7/18/2007	30	30.5	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(A)-40.5	7/19/2007	40	40.5	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(A)-50.5	7/19/2007	50	50.5	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(A)-52.5	7/19/2007	52	52.5	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(A)-60.5	7/19/2007	60	60.5	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(A)-65.5	7/19/2007	65	65.5	soil	-	-	-	-	-			-	-	-	-	-	-	-	-	-	
SS-31(B)-5.5	7/19/2007	5	5.5	soil			180	0.4	< 0.25							1.6		< 0.5	34	63	
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	
SS-31(B)-15.5	7/19/2007	15	15.5	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(B)-20.5	7/19/2007	20	20.5	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(B)-25.5	7/19/2007	25	25.5	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(B)-30.5	7/19/2007	30	30.5	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(B)-40	7/19/2007	39.5	40	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(B)-50	7/19/2007	49.5	50	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(B)-60.5	7/19/2007	60	60.5	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(C)-5.5	7/20/2007	5	5.5	soil	< 0.25	7.3	260	0.4	< 0.25	8.2 22	2 18	0.089	< 0.2	28	5.2	< 0.5	< 0.5	< 0.5	35	38	
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	
SS-31(C)-15.5	7/20/2007	15	15.5	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(C)-19.5	7/20/2007	19	19.5	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(C)-25.5	7/20/2007	25	25.5	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(C)-30	7/20/2007	29.5	30	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(C)-40	7/20/2007	39.5	40	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(C)-51	7/20/2007	50.5	51	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(C)-60.5	7/20/2007	60	60.5	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
SS-31(C)-67.5	7/20/2007	67	67.5	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
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	
SS-31(D)-10.5	7/20/2007	10	10.5	soil	< 0.25	6	330	0.4	< 0.25	11 38	3 25	0.087	< 0.2	57	6.6	< 0.5	< 0.5	< 0.5	36	45	
SS-31(D)-15	7/20/2007	14.5	15	soil	-	-	-	-	-	<u> </u>	-	-	-	-	-	-	-	-	-	-	
SS-31(D)-19.5	7/20/2007	19	19.5	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
	7/23/2007	24.5	25	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
()	7/23/2007	29.5	30	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
. ,	7/23/2007	39.5	40	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
	7/23/2007	50	50.5	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
. ,	7/23/2007	60	60.5	soil	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
	$\begin{array}{l} & SS-31(A)-30.5 \\ & SS-31(A)-40.5 \\ & SS-31(A)-50.5 \\ & SS-31(A)-65.5 \\ & SS-31(A)-65.5 \\ & SS-31(A)-65.5 \\ & SS-31(B)-5.5 \\ & SS-31(B)-10.5 \\ & SS-31(B)-10.5 \\ & SS-31(B)-20.5 \\ & SS-31(C)-10.5 \\ & SS-31(C)-25.5 \\ & SS-31(C)-25.5 \\ & SS-31(C)-25.5 \\ & SS-31(C)-60.5 \\ & SS-31(C)-60.5 \\ & SS-31(C)-60.5 \\ & SS-31(D)-10.5 \\ & SS-31(D)-25 \\ & SS-31(D)-30 \\ & SS-31(D)-40 \\ & SS-31(D)-60.5 \\ \end{array}$	SS-31(A)-30.5 7/18/2007 SS-31(A)-40.5 7/19/2007 SS-31(A)-52.5 7/19/2007 SS-31(A)-60.5 7/19/2007 SS-31(A)-65.5 7/19/2007 SS-31(A)-65.5 7/19/2007 SS-31(A)-65.5 7/19/2007 SS-31(B)-5.5 7/19/2007 SS-31(B)-10.5 7/19/2007 SS-31(B)-15.5 7/19/2007 SS-31(B)-20.5 7/19/2007 SS-31(B)-20.5 7/19/2007 SS-31(B)-20.5 7/19/2007 SS-31(B)-30.5 7/19/2007 SS-31(B)-40 7/19/2007 SS-31(B)-50 7/19/2007 SS-31(B)-60.5 7/20/2007 SS-31(C)-15.5 7/20/2007 SS-31(C)-15.5 7/20/2007 SS-31(C)-15.5 7/20/2007 SS-31(C)-61.5 7/20/2007 SS-31(C)-61.5 7/20/2007 SS-31(C)-65.5 7/20/2007 SS-31(C)-67.5 7/20/2007 SS-31(C)-67.5 7/20/2007 SS-31(D)-10.5 7/20/2007 SS-31(D)-15.5	(feet bgs) $SS-31(A)-30.5 7/18/2007 30$ $SS-31(A)-40.5 7/19/2007 40$ $SS-31(A)-50.5 7/19/2007 50$ $SS-31(A)-65.5 7/19/2007 60$ $SS-31(A)-65.5 7/19/2007 65$ $SS-31(B)-65.5 7/19/2007 5$ $SS-31(B)-10.5 7/19/2007 10$ $SS-31(B)-15.5 7/19/2007 15$ $SS-31(B)-15.5 7/19/2007 20$ $SS-31(B)-25.5 7/19/2007 20$ $SS-31(B)-25.5 7/19/2007 25$ $SS-31(B)-30.5 7/19/2007 30$ $SS-31(B)-30.5 7/19/2007 30$ $SS-31(B)-40 7/19/2007 30$ $SS-31(B)-60.5 7/19/2007 49.5$ $SS-31(B)-60.5 7/19/2007 49.5$ $SS-31(B)-60.5 7/19/2007 5$ $SS-31(C)-10.5 7/20/2007 5$ $SS-31(C)-15.5 7/20/2007 15$ $SS-31(C)-15.5 7/20/2007 15$ $SS-31(C)-15.5 7/20/2007 15$ $SS-31(C)-19.5 7/20/2007 25$ $SS-31(C)-51 7/20/2007 25$ $SS-31(C)-60.5 7/20/2007 25$ $SS-31(C)-60.5 7/20/2007 5$ $SS-31(C)-60.5 7/20/2007 10$ $SS-31(C)-61.5 7/20/2007 10$ $SS-31(C)-61.5 7/20/2007 10$ $SS-31(C)-61.5 7/20/2007 10$ $SS-31(C)-61.5 7/20/2007 10$ $SS-31(C)-60.5 7/20/2007 10$ $SS-31(D)-10.5 7/20/2007 10$ $SS-31(D)-10.5 7/20/2007 10$ $SS-31(D)-10.5 7/20/2007 12$ $SS-31(D)-$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	(feet bgs) (feet bgs) $SS-31(A)-30.5 7/18/2007 30 30.5 soil$ $SS-31(A)-40.5 7/19/2007 40 40.5 soil$ $SS-31(A)-50.5 7/19/2007 50 50.5 soil$ $SS-31(A)-52.5 7/19/2007 52 52.5 soil$ $SS-31(A)-60.5 7/19/2007 65 65.5 soil$ $SS-31(B)-5.5 7/19/2007 5 5.5 soil$ $SS-31(B)-10.5 7/19/2007 10 10.5 soil$ $SS-31(B)-10.5 7/19/2007 15 15.5 soil$ $SS-31(B)-20.5 7/19/2007 20 20.5 soil$ $SS-31(B)-20.5 7/19/2007 25 25.5 soil$ $SS-31(B)-20.5 7/19/2007 30 30.5 soil$ $SS-31(B)-30.5 7/19/2007 39.5 40 soil$ $SS-31(B)-60.5 7/19/2007 49.5 50 soil$ $SS-31(B)-60.5 7/19/2007 49.5 50 soil$ $SS-31(B)-60.5 7/19/2007 5 5.5 soil$ $SS-31(C)-10.5 7/20/2007 15 15.5 soil$ $SS-31(C)-10.5 7/20/2007 15 15.5 soil$ $SS-31(C)-10.5 7/20/2007 15 15.5 soil$ $SS-31(C)-15.5 7/20/2007 15 15.5 soil$ $SS-31(C)-15.5 7/20/2007 15 15.5 soil$ $SS-31(C)-10.5 7/20/2007 19 19.5 soil$ $SS-31(C)-10.5 7/20/2007 19 19.5 soil$ $SS-31(C)-5.5 7/20/2007 5 5.5 soil$ $SS-31(C)-5.5 7/20/2007 15 15.5 soil$ $SS-31(C)-60.5 7/20/2007 15 15.5 soil$ $SS-31(C)-10.5 7/20/2007 15 15.5 soil$ $SS-31(C)-10.5 7/20/2007 19 19.5 soil$ $SS-31(C)-10.5 7/20/2007 19 19.5 soil$ $SS-31(C)-5.5 7/20/2007 5 5.5 soil$ $SS-31(C)-5.5 7/20/2007 19 19.5 soil$ $SS-31(C)-5.5 7/20/2007 5 5.5 soil$ $SS-31(C)-5.5 7/20/2007 5 5.5 soil$ $SS-31(C)-5.5 7/20/2007 15 15.5 soil$ $SS-31(C)-19.5 7/20/2007 19 19.5 soil$ $SS-31(C)-19.5 7/20/2007 19 19.5 soil$ $SS-31(C)-5.5 7/20/2007 5 5.5 soil$ $SS-31(C)-5.5 7/20/2007 10 10.5 soil$ $SS-31(C)-5.5 7/20/2007 10 10.5 soil$ $SS-31(C)-5.5 7/20/2007 10 10.5 soil$ $SS-31(C)-5.5 7/20/2007 5 5.5 soil$ $SS-31(C)-5.5 7/20/2007 10 10.5 soil$ $SS-31(D)-5.5 7/20/2007 10 10.5 soil$ $SS-31(D)-5.5 7/20/2007 10 10.5 soil$ $SS-31(D)-15 7/20/2007 19 19.5 soil$ S	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	(feet bgs) (feet bgs)SS-31(A)-30.5 $7/18/2007$ 3030.5soilSS-31(A)-40.5 $7/19/2007$ 4040.5soilSS-31(A)-50.5 $7/19/2007$ 5050.5soilSS-31(A)-65.5 $7/19/2007$ 6060.5soilSS-31(A)-65.5 $7/19/2007$ 6565.5soilSS-31(B)-5.5 $7/19/2007$ 55.5soil<	$\begin{array}{c c c c c c c c c c c c c c c c c c c $		(feet bgs) (feet bgs) SS-31(A)-30.5 7/18/2007 30 30.5 soil - - <th cols<="" td=""><td>(feet bgs) (feet bgs)SS-31(A)-30.57/18/20073030.5soil</td><td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td><td>(recell bgs) Solution of the set of t</td><td>(feet bgs)(feet bgs)SS-31(A)-30.57/18/20073030.5soil<td>(feet bgs) (feet bgs) SS-31(A)-30.5 7/18/2007 30 30.5 soil -</td><td>(feet bg) (feet bg) SS-31(A)-30.5 7/18/2007 30 30.5 soil -</td><td></td><td>(reet bgs) (feet bgs)SS-31(A)-30.57/18/20073030.5soil</td><td>(feet hgs) (feet hgs) SS-31(A)-30.5 7/18/2007 30 30.5 soil - <</td></td></th>	<td>(feet bgs) (feet bgs)SS-31(A)-30.57/18/20073030.5soil</td> <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td> <td>(recell bgs) Solution of the set of t</td> <td>(feet bgs)(feet bgs)SS-31(A)-30.57/18/20073030.5soil<td>(feet bgs) (feet bgs) SS-31(A)-30.5 7/18/2007 30 30.5 soil -</td><td>(feet bg) (feet bg) SS-31(A)-30.5 7/18/2007 30 30.5 soil -</td><td></td><td>(reet bgs) (feet bgs)SS-31(A)-30.57/18/20073030.5soil</td><td>(feet hgs) (feet hgs) SS-31(A)-30.5 7/18/2007 30 30.5 soil - <</td></td>	(feet bgs) (feet bgs)SS-31(A)-30.57/18/20073030.5soil	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	(recell bgs) Solution of the set of t	(feet bgs)(feet bgs)SS-31(A)-30.57/18/20073030.5soil <td>(feet bgs) (feet bgs) SS-31(A)-30.5 7/18/2007 30 30.5 soil -</td> <td>(feet bg) (feet bg) SS-31(A)-30.5 7/18/2007 30 30.5 soil -</td> <td></td> <td>(reet bgs) (feet bgs)SS-31(A)-30.57/18/20073030.5soil</td> <td>(feet hgs) (feet hgs) SS-31(A)-30.5 7/18/2007 30 30.5 soil - <</td>	(feet bgs) (feet bgs) SS-31(A)-30.5 7/18/2007 30 30.5 soil -	(feet bg) (feet bg) SS-31(A)-30.5 7/18/2007 30 30.5 soil -		(reet bgs) (feet bgs)SS-31(A)-30.57/18/20073030.5soil	(feet hgs) (feet hgs) SS-31(A)-30.5 7/18/2007 30 30.5 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 Sample ID	Date	Sample	Interval	Matrix								Tot	al Meta	als (mg/	/Kg)						
Location	Sampled	top	bottom		Ag	As	Ba	Be	Cd	Со	Cr	Cu	Hg	Мо	Ni	Pb	Sb	Se	TI	v	Zn
	-	(feet bgs)	(feet bgs))									Ū								
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	shallo	w soils (le	ess 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			er than 10 f	0 /		5.5	2,500		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 Sample ID	Date Sam	ple Interval Matrix							Tota	al Met	als (mg	/Kg)						
Location	Sampled top (feet b	bottom gs) (feet bgs)	Ag	As	Ba	Be	Cd	Co Cr	Cu	Hg	Мо	Ni	Pb	Sb	Se	TI	V	Zn
Notes:																		
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																	
feet bgs = feet below ground s	urface																	
mg/Kg = milligrams per kilogr bold indicates that the compound		pratory reporting limi																
10 boxed values excee																		
" $<$ " = not detected above the laboratory report given																		
"-" = sample not analyzed or H																		
sumple not analyzed of 200 not controlson Bay Regional Water Quality Control Roard, February 2005, for Shallow or Deen Soils (as noted) beneath Industrial/Commercial Land Use Areas where Groundwater is																		

Sample	Sample ID	Date	Approximate	Matrix	Total Pet	roleum Hydro	ocarbons		BTE	Х сотро	unds	
Location		Sampled	Sample Depth (feet bgs)		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)
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

(Concentrations reported in milligrams per liter (ug/L))

Notes:

feet bgs = feet below ground surface

ug/L = micrograms per liter

TPHd = total petroleum hydrocarbons as diesel T = toluene

TPHmo = total petroleum hydrocarbons as motor oil E = ethylbenzene

TPHg = total petroleum hydrocarbons as gasoline m,p-X = m,p-xylenes

BTEX = benzene, toluene, ethylbenzene, and total 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.

B = benzene

o-X = o-xylenes

Sample	Sample ID	Date	Approximate	Matrix		Fu	uel Oxygenat	es		Lead Sca	avengers
Location	·	Sampled	Sample Depth (feet bgs)		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

(Concentrations reported in milligrams per liter (ug/L))

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

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

Sample Sample ID Location	Date Sampled	Approximate Sample Depth (feet bgs)			Carbon Disulfide (ug/L)	Volatile Organic para-Isopropyl Toluene (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	-

(Concentrations reported in milligrams per liter (ug/L))

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.

" < " = not detected above the laboratory report given

"-" = ESL not established

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	Sample ID	Date	Approximate	Matrix							Dis	solved	d Meta	ls (ug	/L)						
Location		Sampled	Sample Depth (feet bgs)		Ag	As	Ва	Be	Cd	Со	Cr	Cu	Hg	Мо	Ni	Pb	Sb	Se	ΤI	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

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	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	

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

Sample	Sample ID	Date	Approximate Matrix Total Petroleum Hydrocarbons				Matrix Total Petroleum Hydrocarbons			BTEX compounds					
Location		Sampled	Sample Depth (feet bgs)		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			

(Concentrations reported in milligrams per liter (ug/L))

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

Table 11B - 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

Sample	Sample ID	Date	Approximate	Matrix			uel Oxygenate		TDA		avengers
Location		Sampled	Sample Depth (feet bgs)		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

(Concentrations reported in milligrams per liter (ug/L))

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

Table 12 - Summary of Analytical Results ofVolatile Organic Compounds Detected in Samples from Groundwater Monitoring WellsHanson Radum Facility, 3000 Busch Road, Pleasanton, California

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

(Concentrations reported in milligrams per liter (ug/L))

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

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

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

(Concentrations reported in milligrams per liter (ug/L))

Notes:

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.

boxed values exceed the respective ESL.

" < " = not detected above the laboratory report given

"-" = sample not analyzed

25

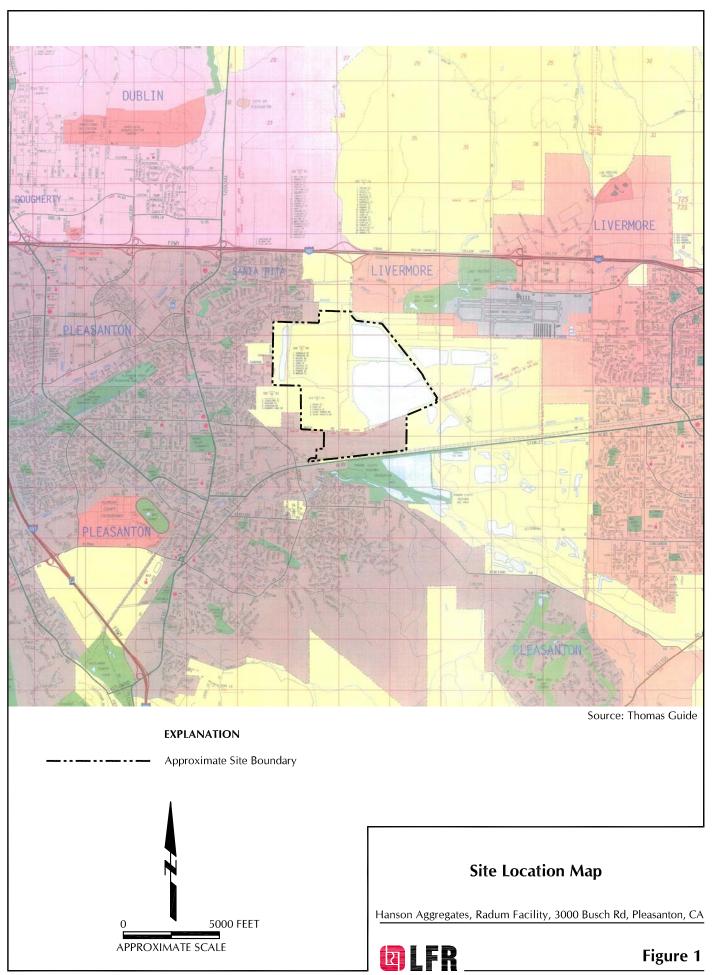
Table 14 - Summary of Analytical Results of CAM 17 Metals Detected in Samples from Groundwater Monitoring Wells Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Sample	Sample ID	Date	Approximate	Matrix							Diss	olved	l Meta	ls (ug	/L)						
Location		Sampled	Sample Depth (feet bgs)		Ag	As	Ва	Be	Cd	Со	Cr	Cu	Hg	Мо	Ni	Pb	Sb	Se	ΤI	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
Notes:																					
feet bgs = feet bel	ow ground surface																				
ug/L = microgram	ns per liter																				
4W-10 = blind duplicate of 3S/1E 10K2																					
" < " = not detect	ed above the laborat	ory report given																			
"-" = sample not a	analyzed																				
oold indicates that	the compound was o	detected above the	e laboratory reporting	limit.																	

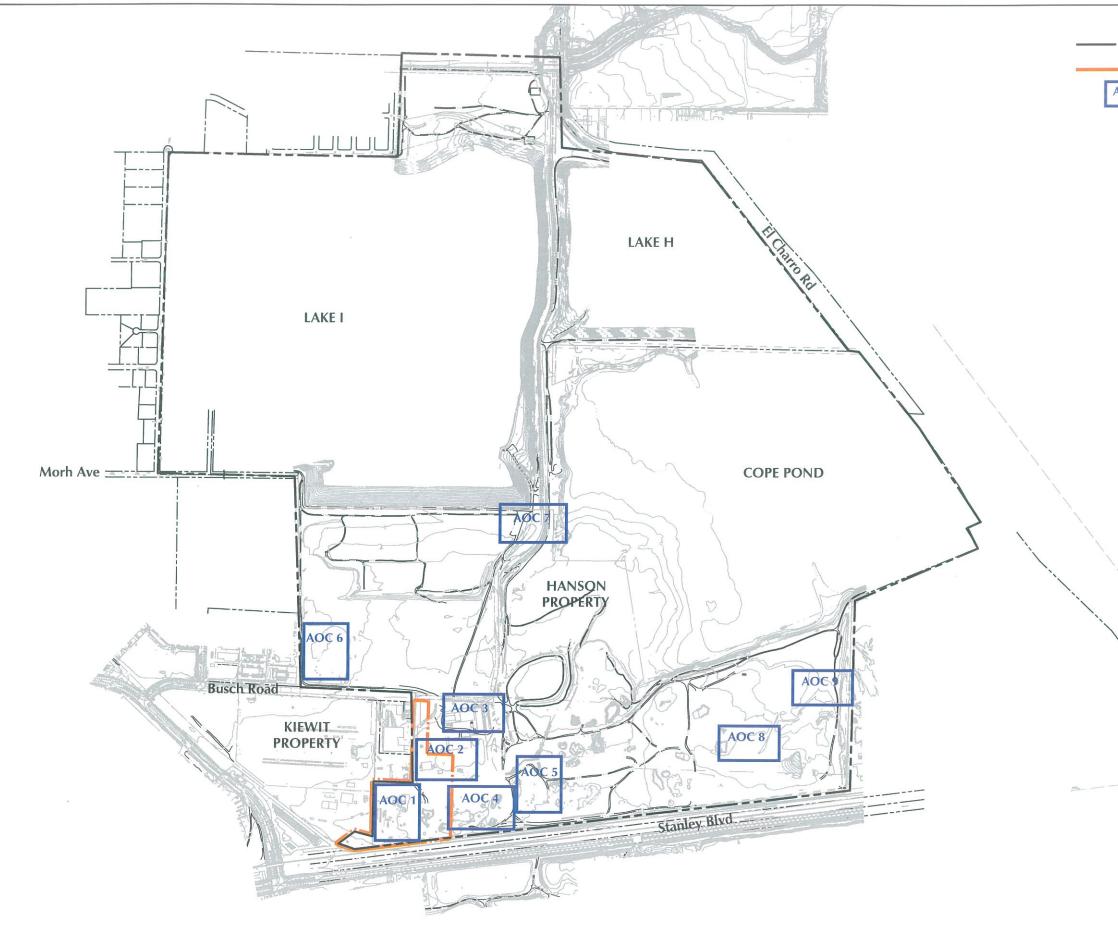
(Concentrations reported in micrograms per liter (ug/L))

0.63 boxed values exceed the respective ESL.

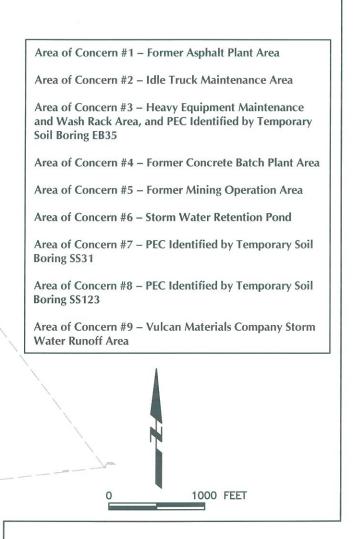
Ag = Silver	Cr = Chromium	Sb = Antimony
As = Arsenic	Cu = Copper	Se = Selenium
Ba = Barium	Hg = Mercury	Tl = Thallium
Be = Beryllium	Mo = Molybdenum	V = Vanadium
Cd = Cadmium	Ni = Nickel	Zn = Zinc
Co = Cobalt	Pb = Lead	



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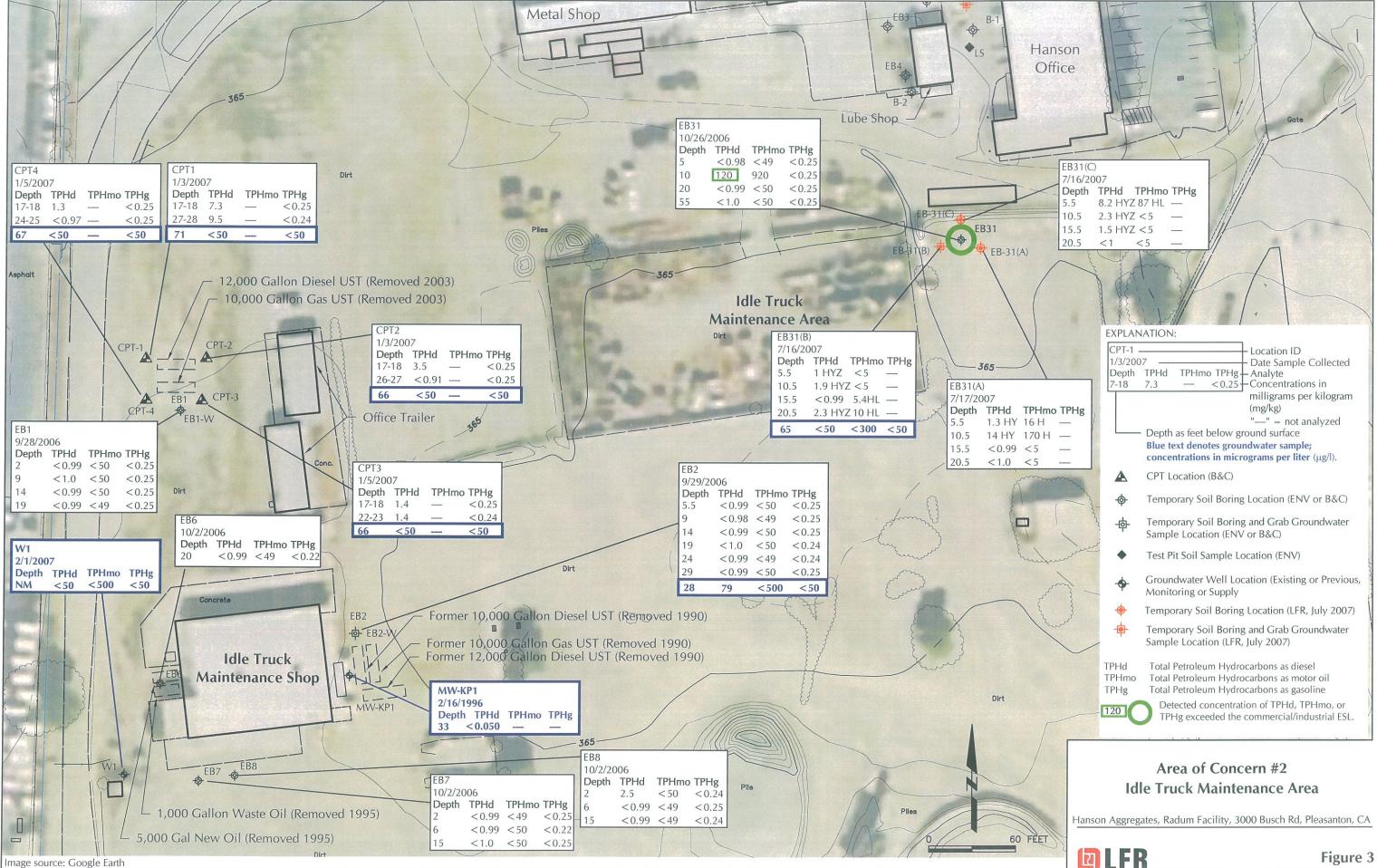
	EXPLANATION:	
	Site Boundary	
	Area Under Separate ACEH Case Number	
AOC 7	Area of Concern	



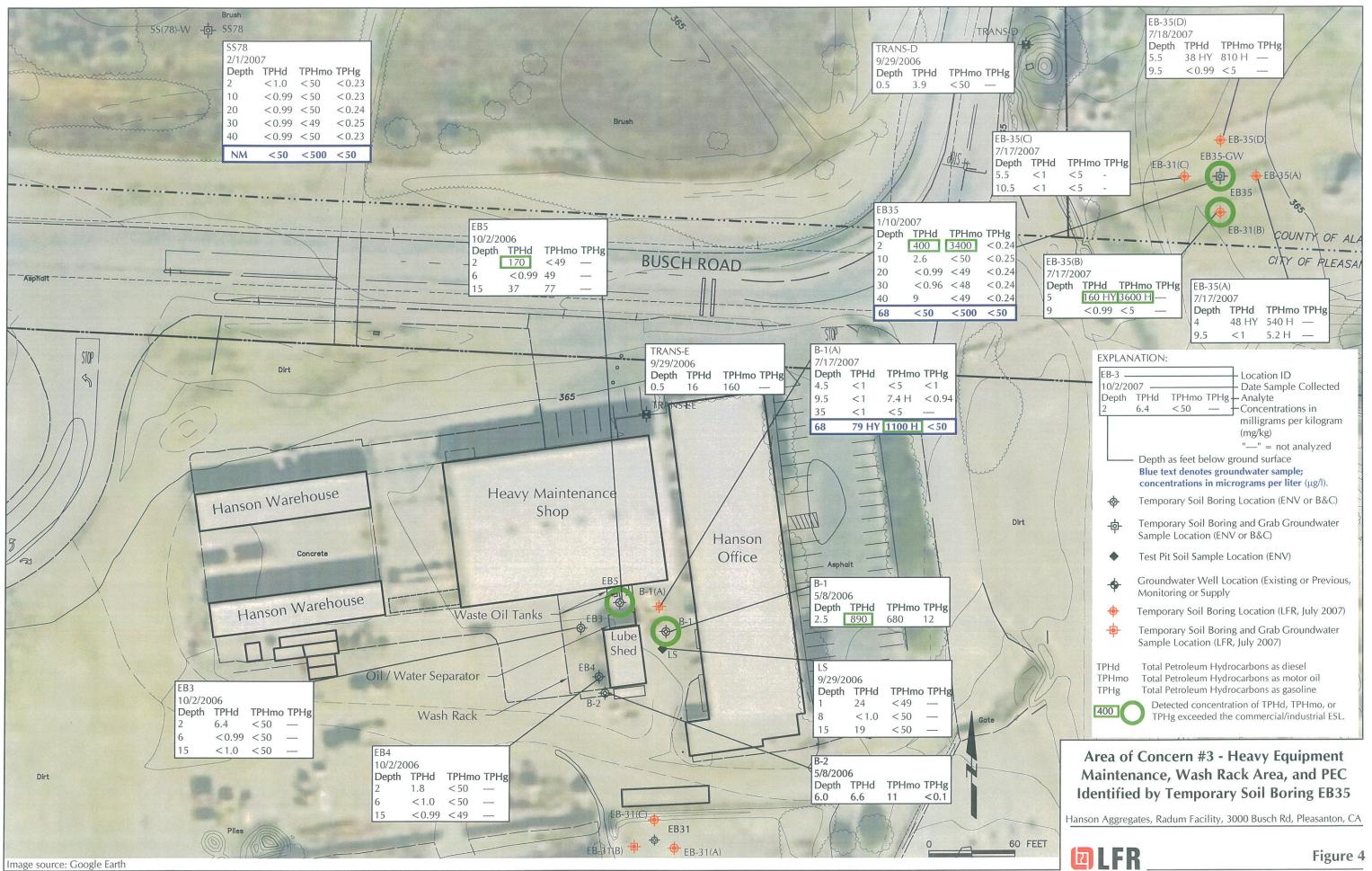
Site Plan Showing Areas of Concern

Hanson Aggregates, Radum Facility, 3000 Busch Rd, Pleasanton, CA

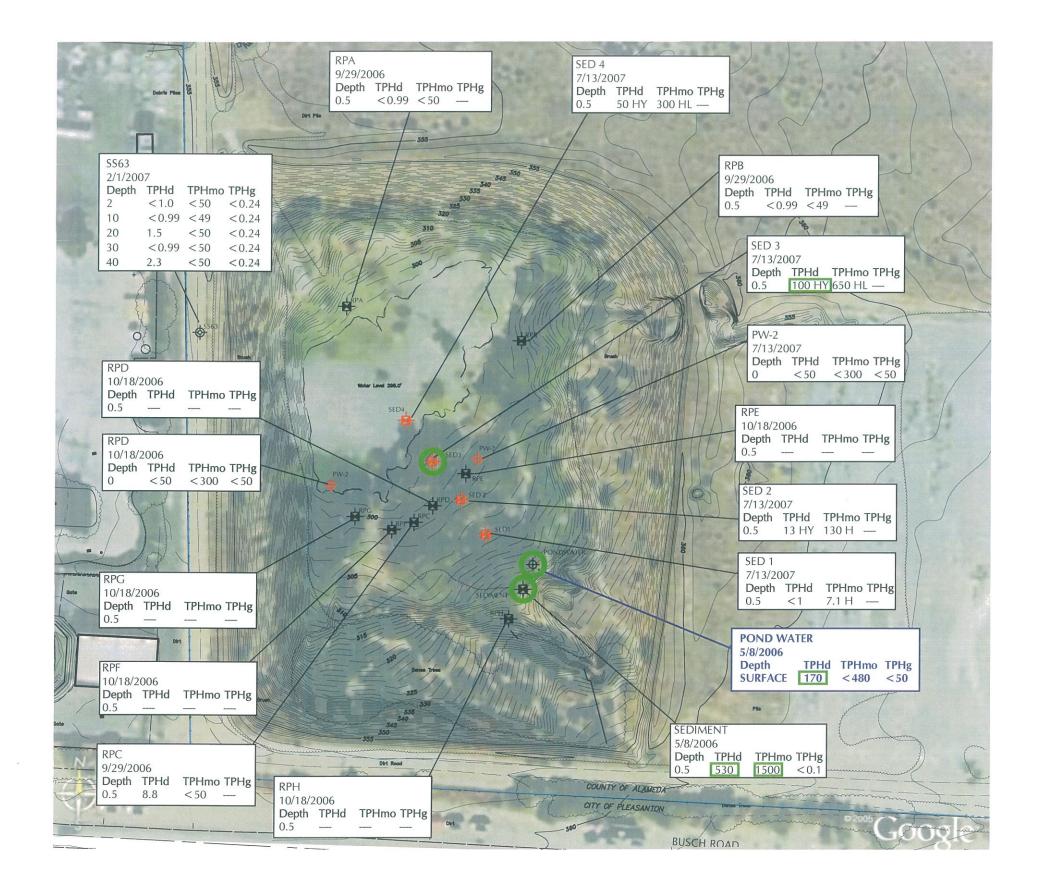




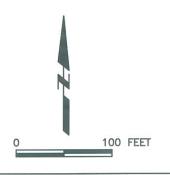
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EXPLAN	NATION						
RPA -				- Location ID			
9/29/20 Depth	007	TDUm	io TPHg-	– Date Sample Collected – Analyte			
0.5	7.3	NA	< 0.25				
				milligrams per kilogram (mg/kg); NAs not analyzed			
	Blue text	denote	s ground	ınd surface water sample; rams per liter (μg/l).			
\$	Tempo	orary So	oil Boring	Location (ENV or B&C)			
- -	 Shallow/Near Surface Grab Soil Sample Location (ENV or B&C) 						
\$	Approximate Surface Water Sample Location (ENV or B&C)						
+	Shallow (LFR, Ju			Grab Soil Sample Location			
\$	Approxi (LFR, Ju			/ater Sample Location			
TPHd TPHmo TPHg	Total I	Petrole	um Hydro	ocarbons as diesel ocarbons as motor oil ocarbons as gasoline			
120				ion of TPHd, TPHmo, or commercial/industrial ESL.			

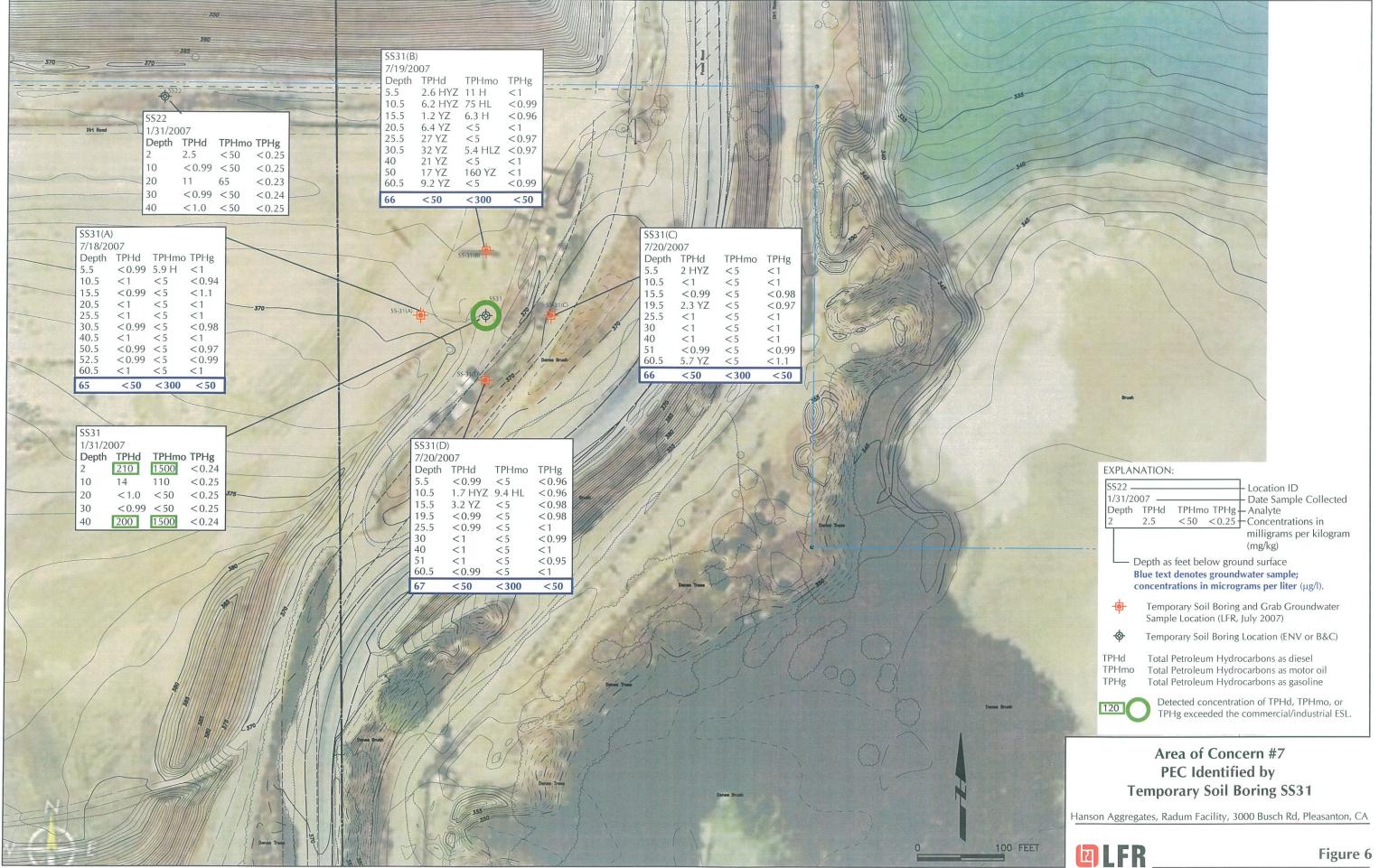


Area of Concern #6 Storm-Water Retention Pond

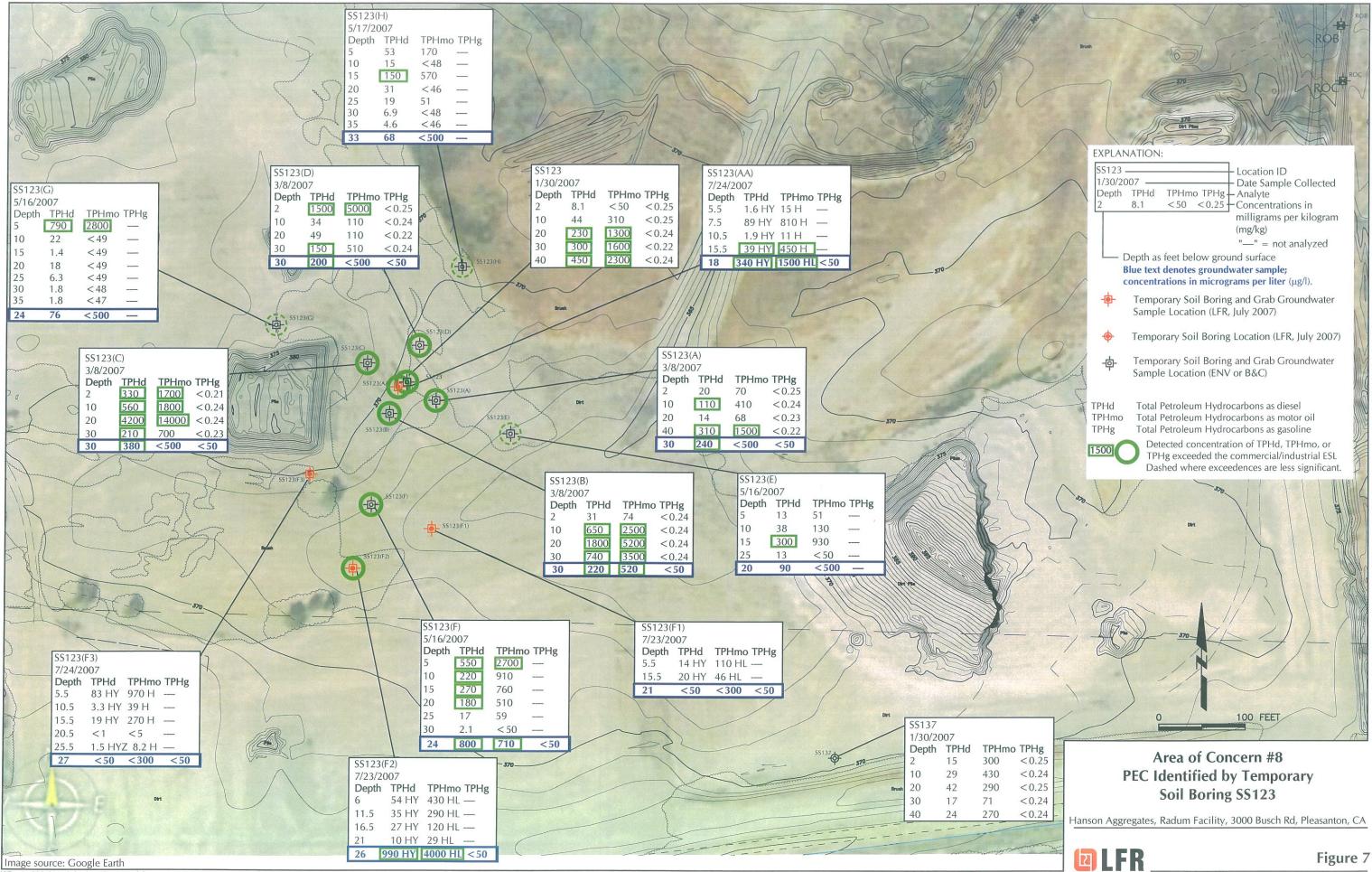
Hanson Aggregates, Radum Facility, 3000 Busch Rd, Pleasanton, CA



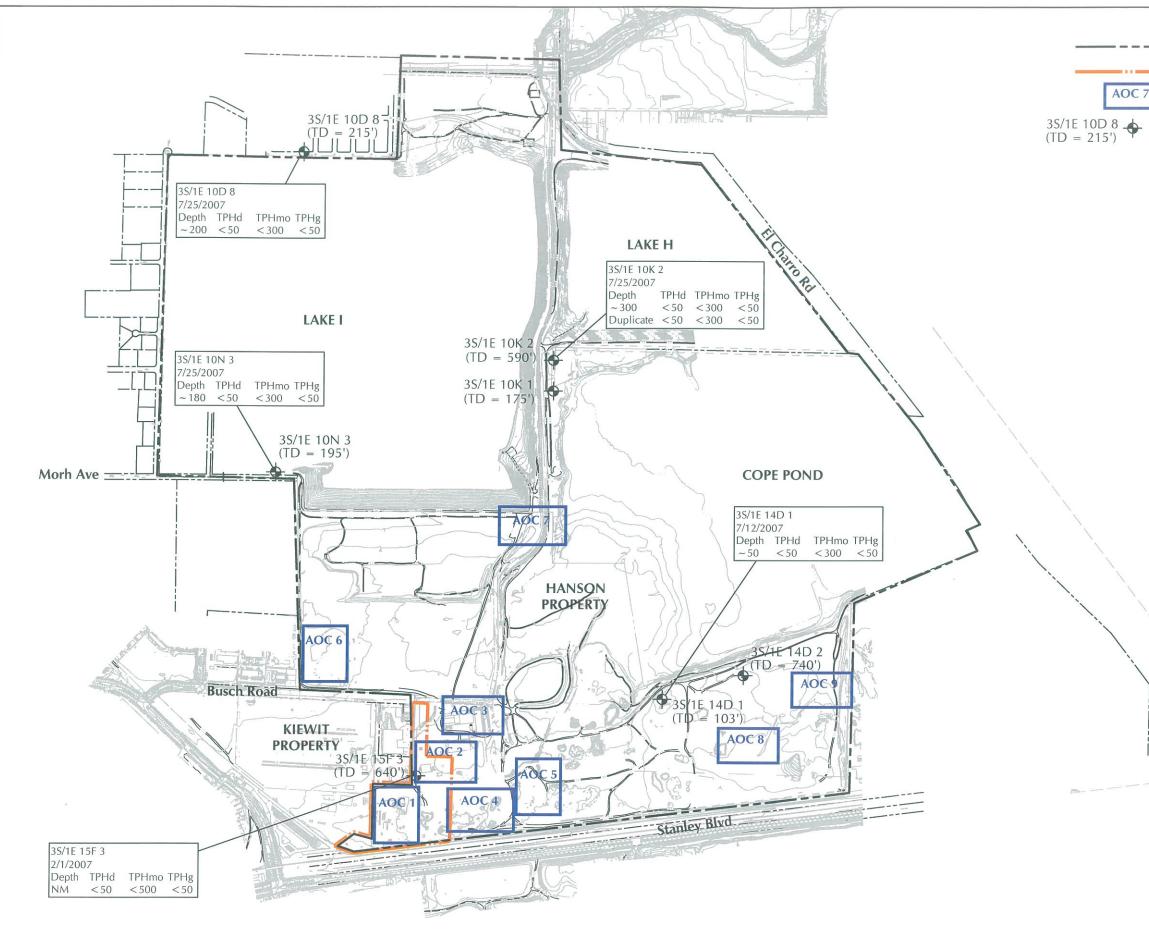
Figure 5



I:\Design\001\09567\02\dwg\Areas of Concern 1-11 Rev1.dwg Oct 23,2007-2:54pm



I:\Design\001\09567\02\dwg\Areas of Concern 1-11 Rev1.dwg Oct 29,2007-11:28am



EXPLANATION:

Site Boundary

Area Under Separate ACEH Case Number

Area of Concern

Existing Groundwater Monitoring, Supply, or Test Well (TD = Total Depth in feet below ground surface)

0D 8 — 007 —			- Location ID - Date Sample Collected
TPHd	TPHmo	TPHg-	– Analyte – Concentrations in
Denth as	feet held	W grou	milligrams per kilogram (mg/kg) Ind surface: NM = not measured

Area of Concern #1 – Former Asphalt Plant Area Area of Concern #2 - Idle Truck Maintenance Area Area of Concern #3 – Heavy Equipment Maintenance and Wash Rack Area, and PEC Identified by Temporary Soil Boring EB35 Area of Concern #4 – Former Concrete Batch Plant Area Area of Concern #5 – Former Mining Operation Area Area of Concern #6 – Storm Water Retention Pond Area of Concern #7 – PEC Identified by Temporary Soil Boring SS31 Area of Concern #8 – PEC Identified by Temporary Soil Boring SS123 Area of Concern #9 – Vulcan Materials Company Storm Water Runoff Area

Site Plan Showing Areas of Concern and Existing Groundwater **Monitoring Wells Sampled**

1000 FEET

Hanson Aggregates, Radum Facility, 3000 Busch Rd, Pleasanton, CA



Figure 8

APPENDIX A

Soil Boring Permit

1	ER RESOURCE
A	
0	0
1	
	ANAGEMEN

LOCATION OF PROJECT Former Plant, Hanson-Radur

Busch

California Coordinates Source

City Pleasanton

CCN

APN

CLIENT Name

Address

Name

APPLICANT

Address 1900

City Enerywille

Cathodic Protection

TYPE OF PROJECT

Water Supply

PROPOSED WELL USE

• •

. .

DRILLING COMPANY HEW

DRILLER'S LICENSE NO. 604

Drill Hole Diameter

• • Air Rotary

Direct Push · ·

Well Construction

Monitoring

New Domestic · ·

DRILLING METHOD

WELL PROJECTS

SOIL BORINGS

Municipal

Industrial

Dewatering

Mud Rotary

Cable Tool

Rd.

Bus

Powell

Schl

. .

. .

. .

ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 454-5728

DRILLING PERMIT APPLICATION

ft

ft.

B.

C

D

E

asphalt

FOR APPLICANT TO COMPLETE

ft CCF

iewen

Irrigation

. .

in

Remediation

Other

Pleasanton,

ft Accuracy.

Phone

Fax 510-65

Zip90608

Phone 510 - 5

Geotechnical Investigation

Contamination

Well Destruction

Hollow Stem Auger

10/31

General

Groundwater Monitoring

Other

Maximum

Zip_ Q FOR OFFICE USE

27122

PERMIT NUMBER WELL NUMBER APN

PERMIT CONDITIONS

(Circled Permit Requirements Apply)

GENERAL

- A permit application should be submitted so as to arrive at the 1. Zone 7 office five days prior to proposed starting date.
- 2 Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects or drilling logs and location sketch for geotechnical projects.
- 3 Permit is void if project not begun within 90 days of approval date.

WATER SUPPLY WELLS

- Minimum surface seal thickness is two inches of cement 1. grout placed by tremie.
- 2 Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
- 3 An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
- 4 A sample port is required on the discharge pipe near the wellhead.

GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
- Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

CATHODIC. Fill hole above anode zone with concrete placed by tremie

SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after the completion of permitted work the well installation report including all soil and water laboratory analysis results

Casing Diameter Depth. in. WELL DESTRUCTION. See attached. Surface Seal Depth ft. Number soil borings soi ftwill lange from 10'-60' Number of Borings Maximum Hole Diameter Depth 60 in 7/16 ESTIMATED STARTING DATE ESTIMATED COMPLETION DATE 7/24/200 Date 7/13/07 Approved Wyman Hong I hereby agree to comply with all requirements of this permit and Alameda

County Ordinance No. 78-68

APPLICANT'S Date 2-9-07 SIGNATURE

Katrin Schliewen

ATTACH SITE PLAN OR SKETCH

Revised: April 27, 2005

APPENDIX B

Laboratory Certified Analytical Reports



LFR Levine Fricke	Project : 001-09567-01
1900 Powell Street	Location : Hanson Radum
Emeryville, CA 94608	Level : II

<u>Sample ID</u>	<u>Lab ID</u>
PW-2	195976-001
SED-1	195976-002
SED-2	195976-003
SED-3	195976-004
SED-4	195976-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: Project Manager Signature:

Operations Manager

Date: 07/25/2007

Date: 07/25/2007

NELAP # 01107CA

Page 1 of ____



CASE NARRATIVE

Laboratory number:195976Client:LFR Levine FrickeProject:001-09567-01Location:Hanson RadumRequest Date:07/13/07Samples Received:07/13/07

This hardcopy data package contains sample and QC results for four soil samples and one water sample, requested for the above referenced project on 07/13/07. The samples were received cold and intact. All data were e-mailed to Larry Lapuyade on 07/23/07.

TPH-Extractables by GC (EPA 8015B) Water:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:

Matrix spikes were not reported for this analysis because the parent sample required a dilution that would have diluted out the spikes. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A) Soil:

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A) Filtrate:

No analytical problems were encountered.



		Iotal 1	Extracta	ble Hydrocarbo	ns	
Lab #:	195976			Location:	Hanson Radum	
Client:	LFR Levine F:	ricke		Prep:	EPA 3520C	
Project#:	001-09567-01			Analysis:	EPA 8015B	
Field ID:	PW-2			Sampled:	07/13/07	
Matrix:	Water			Received:	07/13/07	
Units:	ug/L			Prepared:	07/17/07	
Diln Fac:	1.000			Analyzed:	07/20/07	
Batch#:	127341			-		
Type: Lab ID:	SAMPLE 195976-001			Cleanup Method:	EPA 3630C	
	alyte		Result	RL		
Diesel C10-C2		NI)	50		
Motor Oil C24	-C36	NI)	300		
Sur	rogate	%REC	Limits			
Hexacosane		108	61-134			
Type: Lab ID:	BLANK QC396668			Cleanup Method:	EPA 3630C	
An	alyte		Result	RL		
Diesel C10-C2	4	NI)	50		
	020	NI)	300		
Motor Oil C24	-036	INL	,	500		
	rogate	%REC	Limits			



Total Extractable Hydrocarbons					
Lab #:	195976	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3520C		
Project#:	001-09567-01	Analysis:	EPA 8015B		
Type:	LCS	Diln Fac:	1.000		
Lab ID:	QC396669	Batch#:	127341		
Matrix:	Water	Prepared:	07/17/07		
Units:	ug/L	Analyzed:	07/20/07		

Cleanup Method: EPA 3630C

	Spiked	Result	%REC	Limits
	2,500	2,469	99	58-130
%REC	Limits			
107	61-134			
	%REC		2,500 2,469 %REC Limits	2,500 2,469 99 %REC Limits



Total Extractable Hydrocarbons					
Lab #:	195976	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3520C		
Project#:	001-09567-01	Analysis:	EPA 8015B		
Field ID:	ZZZZZZZZZ	Batch#:	127341		
MSS Lab ID:	195966-005	Sampled:	07/12/07		
Matrix:	Water	Received:	07/13/07		
Units:	ug/L	Prepared:	07/17/07		
Diln Fac:	1.000	Analyzed:	07/19/07		

Туре:	MS			Lab ID:	QC39	96670		
	Analyte	MSS Resu	lt	Spiked	Res	sult	%REC	Limits
Diesel Cl	0-C24	338,000		2,500	258,9	000 >LR	-3166	NM 57-134
	Surrogate	%REC	Limits					
Hexacosan	e	115	61-134					

Type:	MSD			Lab ID:		QC396671				
	Analyte	S	piked	F	Result	%RE	C	Limits	RPD	Lim
Diesel C	C10-C24	2	,500	143	3,100 >L	R -7797	NM	57-134	NC	32
	Surrogate	%REC	Limits							
Hexacosa	ane	115	61-134							



		Total I	Extracta	ble Hydrocarbo	ns
Lab #: Client: Project#: Matrix: Units: Basis: Batch#:	195976 LFR Levine F: 001-09567-01 Soil mg/Kg as received 127278	ricke		Location: Prep: Analysis: Sampled: Received: Prepared:	Hanson Radum SHAKER TABLE EPA 8015B 07/13/07 07/13/07 07/16/07
Field ID: Type: Lab ID:	SED-1 SAMPLE 195976-002			Diln Fac: Analyzed: Cleanup Method:	1.000 07/20/07 EPA 3630C
Diesel C10-	Analyte	NI	Result	<u>RL</u>	0
Motor Oil C		INI	ларана 7.1 н		
Q	urrogate	%REC	Limits		
Hexacosane	arrogate	86	40-127		
Field ID: Type: Lab ID:	SED-2 SAMPLE 195976-003			Diln Fac: Analyzed: Cleanup Method:	1.000 07/20/07 EPA 3630C
	Analyte		Result	RL	
Diesel C10-			13 H Y		
Motor Oil C	24-C36		130 H	5.	0
		%REC		5.	0
	24-C36 urrogate	%REC 93		5.	0
S			Limits	5. Diln Fac: Analyzed: Cleanup Method:	3.000 07/21/07
S Hexacosane Field ID: Type: Lab ID:	SED-3 SAMPLE 195976-004 Analyte		Limits 40-127 Result	Diln Fac: Analyzed: Cleanup Method: RL	3.000 07/21/07 EPA 3630C
Field ID: Type: Lab ID: Diesel C10-	SED-3 SAMPLE 195976-004 Analyte C24		Limits 40-127 Result 100 H Y	Diln Fac: Analyzed: Cleanup Method: RL 3.	3.000 07/21/07 EPA 3630C
S Hexacosane Field ID: Type: Lab ID: Diesel C10- Motor Oil C	SED-3 SAMPLE 195976-004 Analyte C24 24-C36	93	Limits 40-127 Result 100 H Y 650 H I	Diln Fac: Analyzed: Cleanup Method: RL 3.	3.000 07/21/07 EPA 3630C
S Hexacosane Field ID: Type: Lab ID: Diesel C10- Motor Oil C	SED-3 SAMPLE 195976-004 Analyte C24		Limits 40-127 Result 100 H Y 650 H I	Diln Fac: Analyzed: Cleanup Method: RL 3.	3.000 07/21/07 EPA 3630C
S Hexacosane Field ID: Type: Lab ID: Diesel C10- Motor Oil C	SED-3 SAMPLE 195976-004 Analyte C24 24-C36	93 %REC	Limits 40-127 Result 100 H Y 650 H I Limits	Diln Fac: Analyzed: Cleanup Method: RL 3.	3.000 07/21/07 EPA 3630C
S Hexacosane Field ID: Type: Lab ID: Diesel C10 Motor Oil C Motor Oil C S Hexacosane Field ID: Type: Lab ID:	SED-3 SAMPLE 195976-004 Analyte C24 24-C36 urrogate SED-4 SAMPLE 195976-005 Analyte	93 %REC	Limits 40-127 40-127 100 H Y 650 H I Limits 40-127	Diln Fac: Analyzed: Cleanup Method: RL 3. 15 Diln Fac: Analyzed: Cleanup Method: RL	3.000 07/21/07 EPA 3630C 0 1.000 07/20/07 EPA 3630C
S Hexacosane Field ID: Type: Lab ID: Diesel C10 Motor Oil C Hexacosane Field ID: Type: Lab ID: Diesel C10-	SED-3 SAMPLE 195976-004 Analyte C24 24-C36 urrogate SED-4 SAMPLE 195976-005 Analyte C24	93 %REC	Limits 40-127 Mesult 100 H Y 650 H I Limits 40-127 Result 50 H Y	Diln Fac: Analyzed: Cleanup Method: RL 3. 15 Diln Fac: Analyzed: Cleanup Method: RL 0.	3.000 07/21/07 EPA 3630C 0 1.000 07/20/07 EPA 3630C 99
S Hexacosane Field ID: Type: Lab ID: Diesel C10 Motor Oil C S Hexacosane Field ID: Type: Lab ID: Diesel C10 Motor Oil C	sed-3 SAMPLE 195976-004 Analyte C24 24-C36 urrogate SED-4 SAMPLE 195976-005 Analyte C24 24-C36	93 %REC 83	Limits 40-127 100 H Y 650 H I Limits 40-127 Esult 50 H Y 300 H I	Diln Fac: Analyzed: Cleanup Method: RL 3. 15 Diln Fac: Analyzed: Cleanup Method: RL 0.	3.000 07/21/07 EPA 3630C 0 1.000 07/20/07 EPA 3630C 99
S Hexacosane Field ID: Type: Lab ID: Diesel C10- Motor Oil C S Hexacosane Field ID: Type: Lab ID: Diesel C10- Motor Oil C	SED-3 SAMPLE 195976-004 Analyte C24 24-C36 urrogate SED-4 SAMPLE 195976-005 Analyte C24	93 %REC	Limits 40-127 Mesult 100 H Y 650 H I Limits 40-127 Result 50 H Y	Diln Fac: Analyzed: Cleanup Method: RL 3. 15 Diln Fac: Analyzed: Cleanup Method: RL 0.	3.000 07/21/07 EPA 3630C 0 1.000 07/20/07 EPA 3630C 99

H= Heavier hydrocarbons contributed to the quantitation L= Lighter hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard ND= Not Detected RL= Reporting Limit

Page 1 of 2



Total Extractable Hydrocarbons					
Lab #:	195976		Location:	Hanson Radum	
Client: Project#:	LFR Levine Fr 001-09567-01	lcke	Prep: Analysis:	SHAKER TABLE EPA 8015B	
Matrix:	Soil		Sampled:	07/13/07	
Units:	mg/Kg		Received:	07/13/07	
Basis: Batch#:	as received 127278		Prepared:	07/16/07	
Type: Lab ID: Diln Fac:	BLANK QC396381 1.000		Cleanup Method:	07/17/07 EPA 3630C	
Ana. Diesel C10-C24	lyte	Result ND	RL 1	0	
Motor Oil C24-		ND ND	1. 5.	0	
Surro Hexacosane	ogate	%REC Limits 114 40-127			



Total Extractable Hydrocarbons					
Lab #:	195976	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	SHAKER TABLE		
Project#:	001-09567-01	Analysis:	EPA 8015B		
Туре:	LCS	Diln Fac:	1.000		
Lab ID:	QC396382	Batch#:	127278		
Matrix:	Soil	Prepared:	07/16/07		
Units:	mg/Kg	Analyzed:	07/17/07		
Basis:	as received				

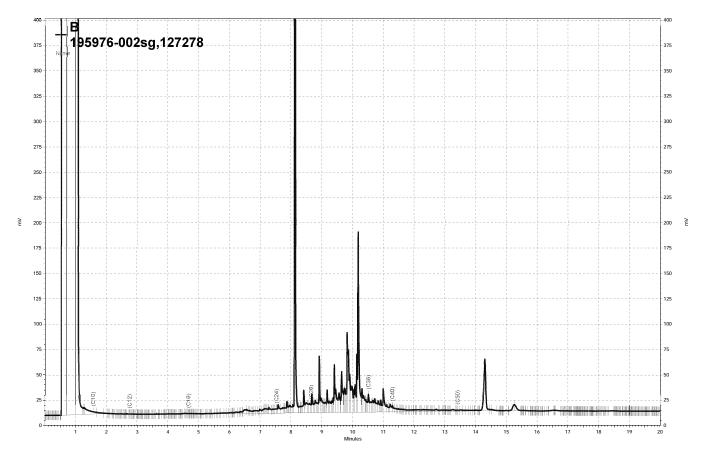
Cleanup Method: EPA 3630C

Hexacosane

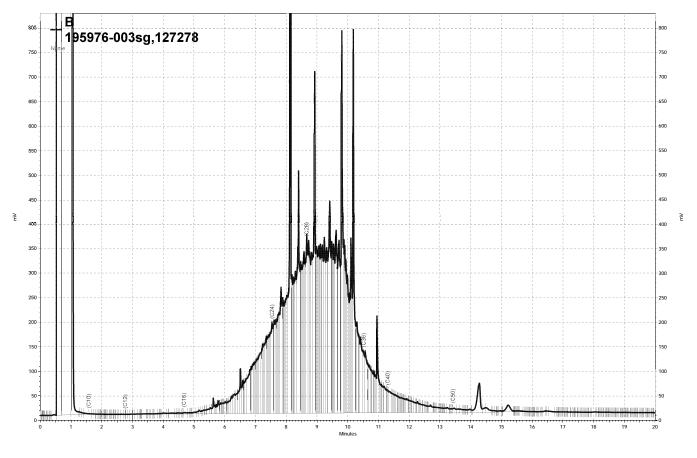
Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.79	50.26	101	58-127
Surrogate	%REC Limits			

40-127

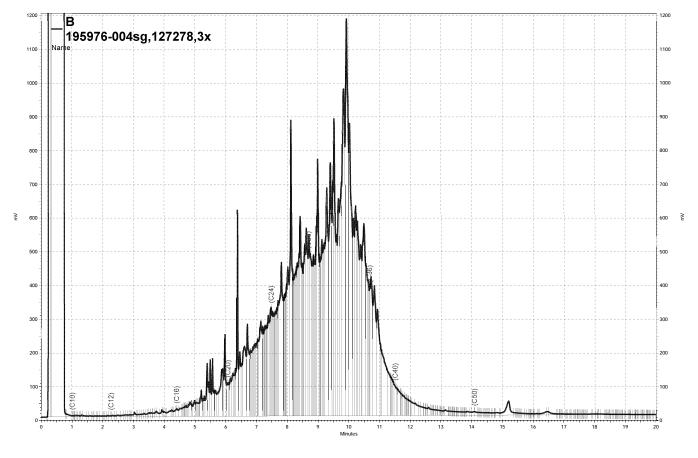
105



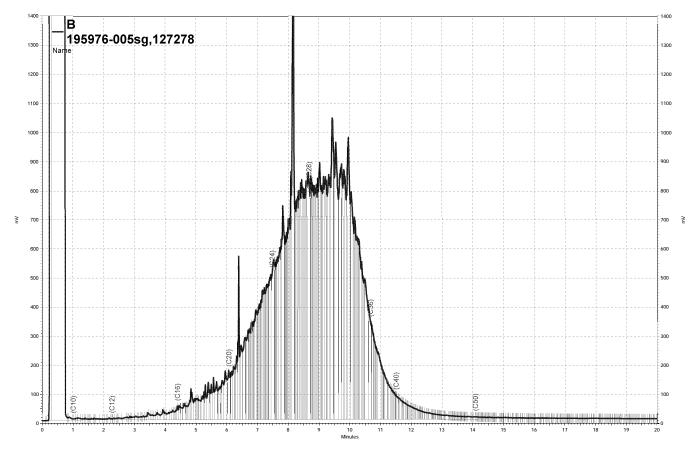
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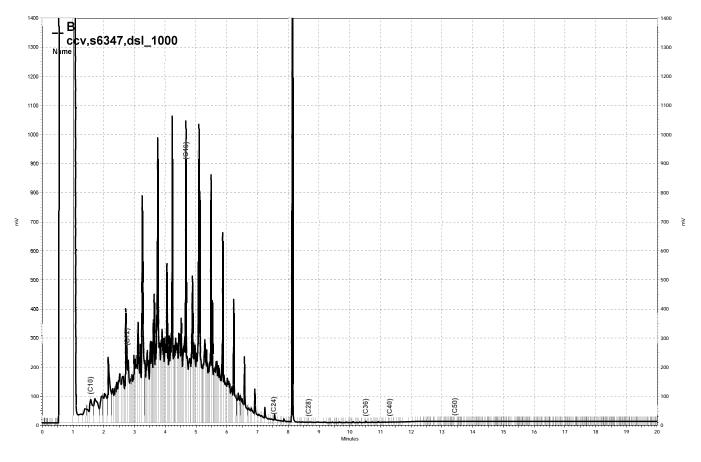
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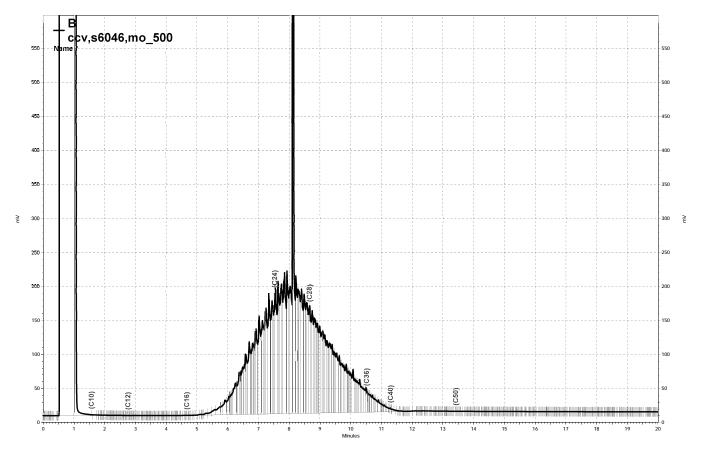
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\\Lims\gdrive\ezchrom\Projects\GC14B\Data\201b033, B



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\201b022, B



\Lims\gdrive\ezchrom\Projects\GC15B\Data\201b021, B



	Gas	oline by GC/MS		
Lab #: Client: Project#:	195976 LFR Levine Fricke 001-09567-01	Prep: Analysis:	EPA 5030B EPA 8260B	
Field ID: Lab ID: Matrix: Units: Diln Fac:	PW-2 195976-001 Water ug/L 1,000	Batch#: Sampled: Received: Analyzed:	127216 07/13/07 07/13/07 07/13/07	

June Junt e	Derult	RI.
Analyte	Result	
Gasoline C7-C12	ND	50
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
	ND ND	0.5
cis-1,3-Dichloropropene		
Toluene	ND	0.5 0.5
trans-1,3-Dichloropropene 1,1,2-Trichloroethane	ND	0.5
	ND	
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
· · · · ·		

ND= Not Detected RL= Reporting Limit Page 1 of 2



	G	asoline	e by GC/MS	
Lab #: 195976			Prep:	EPA 5030B
Client: LFR Levine	Fricke		Analysis:	EPA 8260B
Project#: 001-09567-02			1110127020	
Field ID: PW-2			Batch#:	127216
Lab ID: 195976-001			Sampled:	07/13/07
Matrix: Water			Received:	07/13/07
Units: ug/L			Analyzed:	07/13/07
Diln Fac: 1.000				
Analyte		Result		RL
Propylbenzene	ND			0.5
Bromobenzene	ND			0.5 0.5
1,3,5-Trimethylbenzene 2-Chlorotoluene	ND ND			0.5
4-Chlorotoluene	ND			0.5
tert-Butylbenzene	ND			0.5
1,2,4-Trimethylbenzene	ND			0.5
sec-Butylbenzene	ND			0.5
para-Isopropyl Toluene	ND			0.5
1,3-Dichlorobenzene	ND			0.5
1,4-Dichlorobenzene	ND			0.5
n-Butylbenzene	ND			0.5
1,2-Dichlorobenzene	ND			0.5
1,2-Dibromo-3-Chloropropane	ND			2.0
1,2,4-Trichlorobenzene	ND			0.5
Hexachlorobutadiene	ND			0.5
Naphthalene	ND			2.0
1,2,3-Trichlorobenzene	ND			0.5
Surrogate	%REC	Limits		
Dibromofluoromethane	98	80-123		
1,2-Dichloroethane-d4	96	79-134		
Toluene-d8	97	80-120		
Bromofluorobenzene	99	80-122		



Gasoline by GC/MS						
Lab #: Client: Project#:	195976 LFR Levine Fricke 001-09567-01	Prep: Analysis:	EPA 5030B EPA 8260B			
Type: Lab ID: Matrix: Units:	BLANK QC396077 Water ug/L	Diln Fac: Batch#: Analyzed:	1.000 127216 07/13/07			

Analyte	Result	RL
Gasoline C7-C12	ND	50
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
	ND	0.5
Isopropyl Ether (DIPE) Vinyl Chloride	ND ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
		0.5
Tetrachloroethene Dibromochloromethane	ND	0.5
	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5

ND= Not Detected RL= Reporting Limit Page 1 of 2



	Gas	oline by GC/MS		
Lab #: 195976		Prep:	EPA 5030B	
Client: LFR Levine F Project#: 001-09567-01		Analysis:	EPA 8260B	
Type: BLANK	-	Diln Fac:	1.000	
Lab ID: QC396077		Batch#:	127216	
Matrix: Water		Analyzed:	07/13/07	
Units: uq/L		111017200	0., 20, 0.	
Analyte		sult	RL	
Propylbenzene	ND		0.5	
Bromobenzene	ND		0.5	
1,3,5-Trimethylbenzene 2-Chlorotoluene	ND ND		0.5 0.5	
4-Chlorotoluene	ND ND		0.5	
tert-Butylbenzene	ND		0.5	
1,2,4-Trimethylbenzene	ND		0.5	
sec-Butylbenzene	ND		0.5	
para-Isopropyl Toluene	ND		0.5	
1,3-Dichlorobenzene	ND		0.5	
1,4-Dichlorobenzene	ND		0.5	
n-Butylbenzene	ND		0.5	
1,2-Dichlorobenzene	ND		0.5	
1,2-Dibromo-3-Chloropropane	ND		2.0	
1,2,4-Trichlorobenzene	ND		0.5	
Hexachlorobutadiene	ND		0.5	
Naphthalene	ND		2.0	
1,2,3-Trichlorobenzene	ND		0.5	
Surrogate	%REC Li	mits		
Dibromofluoromethane)-123		
1,2-Dichloroethane-d4		9-134		
Toluene-d8)-120		
Bromofluorobenzene)-122		



Gasoline by GC/MS						
Lab #: Client: Project#:	195976 LFR Levine Fricke 001-09567-01	Prep: Analysis:	EPA 5030B EPA 8260B			
Matrix: Units: Diln Fac:	Water ug/L 1.000	Batch#: Analyzed:	127216 07/13/07			

Type: BS			Lab ID:	QC	396078		
Analyte		Spiked		Result	%REC	Limits	
tert-Butyl Alcohol (TBA)		150.0		157.5	105	68-132	
Isopropyl Ether (DIPE)		30.00		25.77	86	65-120	
Ethyl tert-Butyl Ether (ETBE)		30.00		29.99	100	75-124	
Methyl tert-Amyl Ether (TAME)		30.00		32.54	108	77-120	
1,1-Dichloroethene		30.00		32.29	108	80-132	
Benzene		30.00		30.15	100	80-120	
Trichloroethene		30.00		28.88	96	80-120	
Toluene		30.00		31.17	104	80-120	
Chlorobenzene		30.00		30.69	102	80-120	
Surrogate	%REC	Limits					
Dibromofluoromethane	07	80-123					
1.2-Dichloroethane-d4	95	79-134					

Darrogace	OTCH C		
Dibromofluoromethane	97	80-123	
1,2-Dichloroethane-d4	95	79–134	
Toluene-d8	97	80-120	
Bromofluorobenzene	97	80-122	

Type: BSD			Lab ID:	QC39	6079			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)		150.0		167.4	112	68-132	6	20
Isopropyl Ether (DIPE)		30.00		27.39	91	65-120	6	20
	FBE)	30.00		30.87	103	75-124	3	20
Methyl tert-Amyl Ether (TA	AME)	30.00		33.64	112	77-120	3	20
1,1-Dichloroethene		30.00		34.57	115	80-132	7	20
Benzene		30.00		31.40	105	80-120	4	20
Trichloroethene		30.00		29.60	99	80-120	2	20
Toluene		30.00		32.85	110	80-120	5	20
Chlorobenzene		30.00		31.73	106	80-120	3	20
Surrogate	%REC	Limits						
Dibromofluoromethane	96	80-123						
1,2-Dichloroethane-d4	96	79-134						
Toluene-d8	100	80-120						
Bromofluorobenzene	96	80-122						



Gasoline by GC/MS						
Lab #:	195976	Prep:	EPA 5030B			
Client:	LFR Levine Fricke	Analysis:	EPA 8260B			
Project#:	001-09567-01					
Matrix:	Water	Batch#:	127216			
Units:	ug/L	Analyzed:	07/13/07			
Diln Fac:	1.000					

Type:

Bromofluorobenzene

BS

94

Lab ID:

QC396080

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,500	1,352	90	70-130

Surrogate	%REC	Limits
Dibromofluoromethane 9	93	80-123
1,2-Dichloroethane-d4 9	95	79-134
Toluene-d8 9	99	80-120
Bromofluorobenzene 9	98	80-122

Type:	BSD			Lab ID:		QC396081			
	Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Gasoline	C7-C12		1,500		1,320	88	70-130	2	20
	Surrogate	%REC	Limits						
Dibromofl	uoromethane	96	80-123						
1,2-Dichl	oroethane-d4	96	79-134						
Toluene-d	8	98	80-120						

80-122



California Title 26 Metals				
Lab #:	195976	Project#:	001-09567-01	
Client:	LFR Levine Fricke	Location:	Hanson Radum	
Field ID:	SED-1	Diln Fac:	1.000	
Lab ID:	195976-002	Sampled:	07/13/07	
Matrix:	Soil	Received:	07/13/07	
Units:	mg/Kg	Analyzed:	07/17/07	
Basis:	as received			

Analyte	Result	RL	Batch# Prepared	Prep	Analysis
Antimony	ND	0.50	127301 07/16/07	EPA 3050B	EPA 6010B
Arsenic	3.6	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Barium	120	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Beryllium	0.26	0.10	127301 07/16/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Chromium	43	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Cobalt	9.0	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Copper	23	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Lead	5.0	0.15	127301 07/16/07	EPA 3050B	EPA 6010B
Mercury	0.040	0.020	127316 07/17/07	METHOD	EPA 7471A
Molybdenum	0.26	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Nickel	64	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Selenium	ND	0.50	127301 07/16/07	EPA 3050B	EPA 6010B
Silver	ND	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Thallium	ND	0.50	127301 07/16/07	EPA 3050B	EPA 6010B
Vanadium	23	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Zinc	42	1.0	127301 07/16/07	EPA 3050B	EPA 6010B



California Title 26 Metals				
Lab #:	195976	Project#:	001-09567-01	
Client:	LFR Levine Fricke	Location:	Hanson Radum	
Field ID:	SED-2	Diln Fac:	1.000	
Lab ID:	195976-003	Sampled:	07/13/07	
Matrix:	Soil	Received:	07/13/07	
Units:	mg/Kg	Analyzed:	07/17/07	
Basis:	as received			
Analyte	Result	RL Batch# Prepa	red Prep	Analysis

Analyte	Result	RL	Batch# Prepared	Prep	Analysis
Antimony	ND	0.50	127301 07/16/07	EPA 3050B	EPA 6010B
Arsenic	2.9	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Barium	96	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Beryllium	0.21	0.10	127301 07/16/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Chromium	37	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Cobalt	7.5	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Copper	20	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Lead	5.6	0.15	127301 07/16/07	EPA 3050B	EPA 6010B
Mercury	0.053	0.020	127316 07/17/07	METHOD	EPA 7471A
Molybdenum	0.41	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Nickel	55	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Selenium	ND	0.50	127301 07/16/07	EPA 3050B	EPA 6010B
Silver	ND	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Thallium	ND	0.50	127301 07/16/07	EPA 3050B	EPA 6010B
Vanadium	19	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Zinc	47	1.0	127301 07/16/07	EPA 3050B	EPA 6010B



California Title 26 Metals				
Lab #:	195976	Project#:	001-09567-01	
Client:	LFR Levine Fricke	Location:	Hanson Radum	
Field ID:	SED-3	Diln Fac:	1.000	
Lab ID:	195976-004	Sampled:	07/13/07	
Matrix:	Soil	Received:	07/13/07	
Units:	mg/Kg	Analyzed:	07/17/07	
Basis:	as received			

Analyte	Result	RL	Batch# Prepared	Prep	Analysis
Antimony	ND	0.50	127301 07/16/07	EPA 3050B	EPA 6010B
Arsenic	2.9	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Barium	120	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Beryllium	0.28	0.10	127301 07/16/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Chromium	44	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Cobalt	8.6	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Copper	32	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Lead	8.5	0.15	127301 07/16/07	EPA 3050B	EPA 6010B
Mercury	0.065	0.020	127316 07/17/07	METHOD	EPA 7471A
Molybdenum	0.58	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Nickel	67	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Selenium	ND	0.50	127301 07/16/07	EPA 3050B	EPA 6010B
Silver	ND	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Thallium	ND	0.50	127301 07/16/07	EPA 3050B	EPA 6010B
Vanadium	22	0.25	127301 07/16/07	EPA 3050B	EPA 6010B
Zinc	70	1.0	127301 07/16/07	EPA 3050B	EPA 6010B



	Cali	fornia T	itle 26 Metals		
Lab #:	195976		Project#:	001-09567-01	
Client:	LFR Levine Fricke		Location:	Hanson Radum	
Field ID:	SED-4		Diln Fac:	1.000	
Lab ID:	195976-005		Sampled:	07/13/07	
Matrix:	Soil		Received:	07/13/07	
Units:	mg/Kg		Analyzed:	07/17/07	
Basis:	as received				
Analyte	Result	RL	Batch# Prepared	l Prep	Analysis
Antimony	0.57	0.50	127301 07/16/07	7 EPA 3050B	EPA 6010B
Arsenic	3.4	0.25	127301 07/16/07	7 EPA 3050B	EPA 6010B
Barium	140	0.25	127301 07/16/07	7 EPA 3050B	EPA 6010B
Beryllium	0.31	0.10	127301 07/16/07	7 EPA 3050B	EPA 6010B

Barium	140	0.25	12/301 0//16/07 EPA 3050B	EPA 6010B
Beryllium	0.31	0.10	127301 07/16/07 EPA 3050B	EPA 6010B
Cadmium	ND	0.25	127301 07/16/07 EPA 3050B	EPA 6010B
Chromium	49	0.25	127301 07/16/07 EPA 3050B	EPA 6010B
Cobalt	10	0.25	127301 07/16/07 EPA 3050B	EPA 6010B
Copper	33	0.25	127301 07/16/07 EPA 3050B	EPA 6010B
Lead	7.6	0.15	127301 07/16/07 EPA 3050B	EPA 6010B
Mercury	0.051	0.020	127316 07/17/07 METHOD	EPA 7471A
Molybdenum	0.33	0.25	127301 07/16/07 EPA 3050B	EPA 6010B
Nickel	76	0.25	127301 07/16/07 EPA 3050B	EPA 6010B
Selenium	ND	0.50	127301 07/16/07 EPA 3050B	EPA 6010B
Silver	ND	0.25	127301 07/16/07 EPA 3050B	EPA 6010B
Thallium	ND	0.50	127301 07/16/07 EPA 3050B	EPA 6010B
Vanadium	25	0.25	127301 07/16/07 EPA 3050B	EPA 6010B
Zinc	59	1.0	127301 07/16/07 EPA 3050B	EPA 6010B



California Title 26 Metals					
Lab #:	195976	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3050B		
Project#:	001-09567-01	Analysis:	EPA 6010B		
Type:	BLANK	Diln Fac:	1.000		
Lab ID:	QC396506	Batch#:	127301		
Matrix:	Soil	Prepared:	07/16/07		
Units:	mg/Kg	Analyzed:	07/17/07		
Basis:	as received				

Analyte	Result	RL	
Antimony	ND	0.50	
Arsenic	ND	0.25	
Barium	ND	0.25	
Beryllium	ND	0.10	
Cadmium	ND	0.25	
Chromium	ND	0.25	
Cobalt	ND	0.25	
Copper	ND	0.25	
Lead	ND	0.15	
Molybdenum	ND	0.25	
Nickel	ND	0.25	
Selenium	ND	0.50	
Silver	ND	0.25	
Thallium	ND	0.50	
Vanadium	ND	0.25	
Zinc	ND	1.0	

ND= Not Detected RL= Reporting Limit Page 1 of 1



California Title 26 Metals				
Lab #: Client: Project#:	195976 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 3050B EPA 6010B	
Matrix: Units: Basis: Diln Fac:	Soil mg/Kg as received 1.000	Batcĥ#: Prepared: Analyzed:	127301 07/16/07 07/17/07	

Type: BS	Lab ID:	QC3965	07	
Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	95.47	95	80-120
Arsenic	50.00	49.53	99	80-120
Barium	100.0	98.42	98	80-120
Beryllium	2.500	2.528	101	80-120
Cadmium	10.00	9.816	98	80-120
Chromium	100.0	95.87	96	80-120
Cobalt	25.00	23.45	94	80-120
Copper	12.50	12.33	99	80-120
Lead	100.0	94.94	95	80-120
Molybdenum	20.00	20.25	101	80-120
Nickel	25.00	23.43	94	80-120
Selenium	50.00	47.77	96	80-120
Silver	10.00	9.547	95	80-120
Thallium	50.00	48.84	98	80-120
Vanadium	25.00	24.20	97	80-120
Zinc	25.00	24.38	98	80-120

Type:	BSD	Lab ID:	QC396	508			
	Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony		100.0	96.71	97	80-120	1	20
Arsenic		50.00	50.97	102	80-120	3	20
Barium		100.0	100.1	100	80-120	2	20
Beryllium		2.500	2.577	103	80-120	2	20
Cadmium		10.00	9.956	100	80-120	1	20
Chromium		100.0	97.81	98	80-120	2	20
Cobalt		25.00	23.84	95	80-120	2	20
Copper		12.50	12.56	101	80-120	2	20
Lead		100.0	96.64	97	80-120	2	20
Molybdenum		20.00	20.67	103	80-120	2	20
Nicĥel		25.00	23.85	95	80-120	2	20
Selenium		50.00	49.16	98	80-120	3	20
Silver		10.00	9.798	98	80-120	3	20
Thallium		50.00	49.31	99	80-120	1	20
Vanadium		25.00	24.64	99	80-120	2	20
Zinc		25.00	24.94	100	80-120	2	20



	California Title 26 Metals					
Lab #:	195976	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 3050B			
Project#:	001-09567-01	Analysis:	EPA 6010B			
Field ID:	ZZZZZZZZZ	Batch#:	127301			
MSS Lab ID:	195907-001	Sampled:	07/11/07			
Matrix:	Soil	Received:	07/11/07			
Units:	mg/Kg	Prepared:	07/16/07			
Basis:	as received	Analyzed:	07/17/07			
Diln Fac:	1.000	-				

Туре:	MS	Lab ID:	QC396509		
Analyte	MSS Resul	t Spiked	Result	%REC	Limits
Antimony	0.6	657 99.01	38.85	39	1-129
Arsenic	14.3	4 49.50	59.38	91	72-120
Barium	91.9	1 99.01	191.5	101	49-138
Beryllium	0.3	453 2.475	5 2.653	93	80-120
Cadmium	3.9	69 9.901	L 12.90	90	72-120
Chromium	15.0	9 99.01	103.1	89	63-122
Cobalt	6.4	20 24.75	26.93	83	61-120
Copper	17.9	7 12.38	29.61	94	59-137
Lead	9.1	50 99.01	93.33	85	55-122
Molybdenum	0.6	441 19.80	16.78	81	66-120
Nickel	28.0	5 24.75	45.48	70	45-139
Selenium	0.0	5165 49.50	44.00	89	73-120
Silver	<0.0	5150 9.901	L 9.120	92	53-120
Thallium	0.2	400 49.50	43.05	86	64-120
Vanadium	23.2	3 24.75	45.99	92	55-139
Zinc	95.9	9 24.75	122.8	108	49-140

Type:	MSD	Lab ID:	QC3965	10			
A	nalyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony		94.34	36.30	38	1-129	2	23
Arsenic		47.17	55.52	87	72-120	3	20
Barium		94.34	164.6	77	49-138	13	23
Beryllium		2.358	2.503	91	80-120	2	20
Cadmium		9.434	12.64	92	72-120	1	20
Chromium		94.34	97.60	87	63-122	1	20
Cobalt		23.58	24.80	78	61-120	4	23
Copper		11.79	27.54	81	59-137	5	20
Lead		94.34	90.88	87	55-122	2	26
Molybdenum		18.87	16.44	84	66-120	3	20
Nickel		23.58	39.23	47	45-139	13	26
Selenium		47.17	43.06	91	73-120	3	20
Silver		9.434	8.723	92	53-120	0	22
Thallium		47.17	42.37	89	64-120	3	20
Vanadium		23.58	42.39	81	55-139	6	20
Zinc		23.58	114.1	77 NM	49-140	6	23



California Title 26 Metals					
Lab #:	195976	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	METHOD		
Project#:	001-09567-01	Analysis:	EPA 7471A		
Analyte:	Mercury	Basis:	as received		
Type:	BLANK	Diln Fac:	1.000		
Lab ID:	QC396569	Batch#:	127316		
Matrix:	Soil	Prepared:	07/17/07		
Units:	mg/Kg	Analyzed:	07/17/07		
Result	RL				

Result	RL	
ND	0.020	

ND= Not Detected RL= Reporting Limit Page 1 of 1



California Title 26 Metals					
Lab #:	195976	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	METHOD		
Project#:	001-09567-01	Analysis:	EPA 7471A		
Analyte:	Mercury	Diln Fac:	1.000		
Matrix:	Soil	Batch#:	127316		
Units:	mg/Kg	Prepared:	07/17/07		
Basis:	as received	Analyzed:	07/17/07		

Туре	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC396570	0.5000	0.4840	97	80-120		
BSD	QC396571	0.5000	0.4740	95	80-120	2	20



QC396574

MSD

	Califo	ornia Title 26 Me	etals				
Lab #:	195976	Location:	Hans	on Radum	1		
Client:	LFR Levine Fricke	Prep:	METH	OD			
Project#:	001-09567-01	Analysis:	EPA	7471A			
Analyte:	Mercury	Diln Fac:	1.00	0			
Field ID:	ZZZZZZZZZ	Batch#:	1273	16			
MSS Lab ID:	195902-001	Sampled:	07/1	1/07			
Matrix:	Soil	Received:	07/1	1/07			
Units:	mg/Kg	Prepared:	07/1	7/07			
Basis:	as received	Analyzed:	07/1	7/07			
Type Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS QC396573	<0.005759	0.5000	0.5070	101	67-143		

0.4032

0.3919

97

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67-143 4



Dissolved California Title 26 Metals						
Lab #:	195976	Project#:	001-09567-01			
Client:	LFR Levine Fricke	Location:	Hanson Radum			
Field ID:	PW-2	Diln Fac:	1.000			
Lab ID:	195976-001	Sampled:	07/13/07			
Matrix:	Filtrate	Received:	07/13/07			
Units:	ug/L					

Analyte	Result	RL	Batch#	Prepared	Analyzed		Prep	A	nalysis
Antimony	ND	10	127328	07/17/07	07/17/07	EPA	3010A	EPA	6010B
Arsenic	5.5	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA	6010B
Barium	170	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA	6010B
Beryllium	ND	2.0	127328	07/17/07	07/17/07	EPA	3010A	EPA	6010B
Cadmium	ND	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA	6010B
Chromium	ND	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA	6010B
Cobalt	ND	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA	6010B
Copper	ND	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA	6010B
Lead	ND	3.0	127328	07/17/07	07/17/07	EPA	3010A	EPA	6010B
Mercury	ND	0.20	127273	07/16/07	07/16/07	METH	IOD	EPA	7470A
Molybdenum	ND	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA	6010B
Nickel	6.0	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA	6010B
Selenium	ND	10	127328	07/17/07	07/17/07	EPA	3010A	EPA	6010B
Silver	ND	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA	6010B
Thallium	ND	10	127328	07/17/07	07/17/07	EPA	3010A	EPA	6010B
Vanadium	ND	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA	6010B
Zinc	24	20	127328	07/17/07	07/17/07	EPA	3010A	EPA	6010B



Lab #:	195976	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	METHOD	
Project#:	001-09567-01	Analysis:	EPA 7470A	
Analyte:	Mercury	Diln Fac:	1.000	
Type:	BLANK	Batch#:	127273	
Lab ID:	QC396356	Prepared:	07/16/07	
Matrix:	Filtrate	Analyzed:	07/16/07	
Units:	ug/L			

Result	RL	
ND	0.20	

ND= Not Detected RL= Reporting Limit Page 1 of 1



Dissolved California Title 26 Metals					
Lab #:	195976	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	METHOD		
Project#:	001-09567-01	Analysis:	EPA 7470A		
Analyte:	Mercury	Batch#:	127273		
Matrix:	Filtrate	Prepared:	07/16/07		
Units:	ug/L	Analyzed:	07/16/07		
Diln Fac:	1.000				

Туре	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC396357	5.000	5.180	104	80-120		
BSD	QC396358	5.000	4.980	100	80-120	4	20



Lab #:	195976	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	METHOD	
Project#:	001-09567-01	Analysis:	EPA 7470A	
Analyte:	Mercury	Batch#:	127273	
Field ID:	PW-2	Sampled:	07/13/07	
MSS Lab ID:	195976-001	Received:	07/13/07	
Matrix:	Filtrate	Prepared:	07/16/07	
Units:	ug/L	Analyzed:	07/16/07	
Diln Fac:	1.000			

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC396360	<0.02083	5.000	5.510	110	80-123		
MSD	QC396361		5.000	5.560	111	80-123	1	20



Dissolved California Title 26 Metals					
Lab #:	195976	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3010A		
Project#:	001-09567-01	Analysis:	EPA 6010B		
Type:	BLANK	Diln Fac:	1.000		
Lab ID:	QC396613	Batch#:	127328		
Matrix:	Water	Prepared:	07/17/07		
Units:	ug/L	Analyzed:	07/17/07		

Analyte	Result	RL	
Antimony	ND	10	
Arsenic	ND	5.0	
Barium	ND	5.0	
Beryllium	ND	2.0	
Cadmium	ND	5.0	
Chromium	ND	5.0	
Cobalt	ND	5.0	
Copper	ND	5.0	
Lead	ND	3.0	
Molybdenum	ND	5.0	
Nickel	ND	5.0	
Selenium	ND	10	
Silver	ND	5.0	
Thallium	ND	10	
Vanadium	ND	5.0	
Zinc	ND	20	



Dissolved California Title 26 Metals					
Lab #:	195976	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3010A		
Project#:	001-09567-01	Analysis:	EPA 6010B		
Matrix:	Water	Batch#:	127328		
Units:	ug/L	Prepared:	07/17/07		
Diln Fac:	1.000	Analyzed:	07/17/07		

Type: BS	Lab	ID: QC39	6614	
Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	490.2	98	80-120
Arsenic	100.0	98.40	98	80-120
Barium	2,000	1,969	98	80-120
Beryllium	50.00	53.58	107	80-120
Cadmium	50.00	50.37	101	80-120
Chromium	200.0	192.8	96	80-120
Cobalt	500.0	480.3	96	80-120
Copper	250.0	231.8	93	80-120
Lead	100.0	97.59	98	80-120
Molybdenum	400.0	385.3	96	80-120
Nickel	500.0	488.5	98	80-120
Selenium	100.0	100.6	101	80-120
Silver	50.00	48.79	98	80-120
Thallium	100.0	102.1	102	80-120
Vanadium	500.0	488.3	98	80-120
Zinc	500.0	505.7	101	80-120

Type:	BSD	Lab 1	ID: QC396	5615			
	Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony		500.0	493.8	99	80-120	1	20
Arsenic		100.0	98.72	99	80-120	0	20
Barium		2,000	1,993	100	80-120	1	20
Beryllium		50.00	54.31	109	80-120	1	20
Cadmium		50.00	50.87	102	80-120	1	20
Chromium		200.0	195.3	98	80-120	1	20
Cobalt		500.0	487.2	97	80-120	1	20
Copper		250.0	234.7	94	80-120	1	20
Lead		100.0	98.50	98	80-120	1	20
Molybdenum		400.0	389.1	97	80-120	1	20
Nicĥel		500.0	494.7	99	80-120	1	20
Selenium		100.0	102.1	102	80-120	1	20
Silver		50.00	49.84	100	80-120	2	20
Thallium		100.0	103.2	103	80-120	1	20
Vanadium		500.0	496.4	99	80-120	2	20
Zinc		500.0	512.3	102	80-120	1	20



Dissolved California Title 26 Metals					
Lab #:	195976	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3010A		
Project#:	001-09567-01	Analysis:	EPA 6010B		
Field ID:	ZZZZZZZZZ	Batch#:	127328		
MSS Lab ID:	195996-001	Sampled:	07/16/07		
Matrix:	Water	Received:	07/16/07		
Units:	ug/L	Prepared:	07/17/07		
Diln Fac:	1.000	Analyzed:	07/17/07		

Type: MS		Lab ID:	QC396616		
Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	4.239	500.0	528.3	105	78-122
Arsenic	10.22	100.0	116.2	106	79-128
Barium	116.7	2,000	2,050	97	80-120
Beryllium	0.4010	50.00	55.29	110	80-122
Cadmium	<0.3555	50.00	50.10	100	80-121
Chromium	34.56	200.0	227.3	96	80-120
Cobalt	1.742	500.0	479.6	96	80-120
Copper	120.4	250.0	372.8	101	80-120
Lead	<1.150	100.0	89.51	90	70-120
Molybdenum	7.493	400.0	404.6	99	80-120
Nickel	25.49	500.0	502.3	95	78-120
Selenium	3.711	100.0	111.0	107	78-132
Silver	1.955	50.00	53.72	104	72-123
Thallium	<1.131	100.0	92.49	92	72-120
Vanadium	45.42	500.0	550.1	101	80-120
Zinc	107.6	500.0	614.0	101	80-124

Type: MSD	Lab ID	QC39	6617			
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	531.6	105	78-122	1	20
Arsenic	100.0	116.5	106	79-128	0	20
Barium	2,000	2,078	98	80-120	1	20
Beryllium	50.00	55.40	110	80-122	0	20
Cadmium	50.00	49.91	100	80-121	0	20
Chromium	200.0	228.0	97	80-120	0	20
Cobalt	500.0	481.3	96	80-120	0	20
Copper	250.0	375.2	102	80-120	1	20
Lead	100.0	90.49	90	70-120	1	20
Molybdenum	400.0	408.8	100	80-120	1	20
Nickel	500.0	504.2	96	78-120	0	20
Selenium	100.0	113.7	110	78-132	2	20
Silver	50.00	54.61	105	72-123	2	20
Thallium	100.0	92.63	93	72-120	0	20
Vanadium	500.0	550.1	101	80-120	0	20
Zinc	500.0	619.3	102	80-124	1	20



<u>Sample ID</u>	<u>Lab ID</u>
EB-31(B)-GGW	196019-001
EB-31(B)-5.5	196019-002
EB-31(B)-10.5	196019-003
EB-31(B)-15.5	196019-004
EB-31(B)-20.5	196019-005
EB-31(C)-5	196019-006
EB-31(C)-10.5	196019-007
EB-31(C)-15.5	196019-008
EB-31(C)-20	196019-009

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: Project Manager Signature:

Operations Manager

Date: <u>07/25/2007</u>

Date: 07/26/2007

NELAP # 01107CA

Page 1 of ____



CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 196019 LFR Levine Fricke 001-09567-01 Hanson Radum 07/16/07 07/16/07

This hardcopy data package contains sample and QC results for eight soil samples and one water sample, requested for the above referenced project on 07/16/07. The samples were received cold and intact. All data were e-mailed to Katrin Schliewen on 07/23/07.

TPH-Extractables by GC (EPA 8015B) Water:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.



		Total I	Extracta	ble Hydrocarbo	ns	
Lab #:	196019			Location:	Hanson Radum	
Client:	LFR Levine F:	ricke		Prep:	EPA 3520C	
Project#:	001-09567-01			Analysis:	EPA 8015B	
Field ID:	EB-31(B)-GGW			Sampled:	07/16/07	
Matrix:	Water			Received:	07/16/07	
Units:	ug/L			Prepared:	07/17/07	
Diln Fac:	1.000			Analyzed:	07/20/07	
Batch#:	127341			-		
Type: Lab ID:	SAMPLE 196019-001			Cleanup Method:	EPA 3630C	
	alyte		Result	RL		
Diesel C10-C2	4	NI)	50		
Motor Oil C24	-C36	NI)	300		
Sur	rogate	%REC	Limits			
Hexacosane		91	61-134			
Type: Lab ID:	BLANK QC396668			Cleanup Method:	EPA 3630C	
Lab ID:	QC396668 alyte		Result	RL	EPA 3630C	
Lab ID: An Diesel C10-C2	QC396668 alyte 4	NE		- RL 50	EPA 3630C	
Lab ID:	QC396668 alyte 4)	RL	EPA 3630C	
Lab ID: An Diesel C10-C2 Motor Oil C24	QC396668 alyte 4	NĽ)	- RL 50	EPA 3630C	



Total Extractable Hydrocarbons							
Lab #:	196019	Location:	Hanson Radum				
Client:	LFR Levine Fricke	Prep:	EPA 3520C				
Project#:	001-09567-01	Analysis:	EPA 8015B				
Туре:	LCS	Diln Fac:	1.000				
Lab ID:	QC396669	Batch#:	127341				
Matrix:	Water	Prepared:	07/17/07				
Units:	ug/L	Analyzed:	07/20/07				

Cleanup Method: EPA 3630C

Analyte		Spiked	Result	%REC	Limits
Diesel C10-C24		2,500	2,469	99	58-130
Surrogate	%REC	Limits			
Hexacosane	107	61-134			



Total Extractable Hydrocarbons						
Lab #:	196019	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 3520C			
Project#:	001-09567-01	Analysis:	EPA 8015B			
Field ID:	ZZZZZZZZZ	Batch#:	127341			
MSS Lab ID:	195966-005	Sampled:	07/12/07			
Matrix:	Water	Received:	07/13/07			
Units:	ug/L	Prepared:	07/17/07			
Diln Fac:	1.000	Analyzed:	07/19/07			

Type:	MS			Lab ID:	Q	C396670		
	Analyte	MSS Resu	lt	Spiked	1	Result	%RE(C Limits
Diesel Cl	0-C24	338,000		2,500	25	8,900 >LR	-3166	NM 57-134
	Surrogate	%REC	Limits					
Hexacosan	e	115	61-134					

Type:	MSD			Lab ID:		QC396671				
	Analyte	S	piked		Result	%RE	C	Limits	RPD	Lim
Diesel C	C10-C24	2	,500	14	13,100 >L	R -7797	NM	57-134	NC	32
		-								
	Surrogate	%REC	Limits							
Hexacosa	ine	115	61-134							



	Т	otal Extracta	ble Hydrocarbo	ns
Lab #: Client: Project#:	196019 LFR Levine Fr 001-09567-01	icke	Location: Prep: Analysis:	Hanson Radum SHAKER TABLE EPA 8015B
Matrix: Units: Basis:	Soil mg/Kg as received		Batch#: Sampled: Received:	127346 07/16/07 07/16/07
Diln Fac:	1.000		Prepared:	07/17/07
Field ID: Type: Lab ID:	EB-31(B)-5.5 SAMPLE 196019-002		Analyzed: Cleanup Method:	07/20/07 EPA 3630C
Ana	lyte	Result	RL	
Diesel C10-C24 Motor Oil C24-0		1.0 H ND	НΥΖ 0. 5.	99 0
	ogate	%REC Limits		
Hexacosane		73 40-127		
Field ID: Type: Lab ID:	EB-31(B)-10.5 SAMPLE 196019-003		Analyzed: Cleanup Method:	07/20/07 EPA 3630C
Ana Diesel C10-C24	lyte	Result 1.9 H	RL	99
Motor Oil C24-0		ND	5.	
	ogate	%REC Limits		
нехасоsane		73 40-127		
Hexacosane		73 40-127		
Hexacosane Field ID: Type: Lab ID:	EB-31(B)-15.5 SAMPLE 196019-004	73 40-127	Analyzed: Cleanup Method:	07/20/07 EPA 3630C
Field ID: Type: Lab ID: Ana	SAMPLE 196019-004 lyte	Result	Cleanup Method:	EPA 3630C
Field ID: Type: Lab ID:	SAMPLE 196019-004 lyte		Cleanup Method: RL 0.	EPA 3630C 99
Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0	SAMPLE 196019-004 lyte C36	Result ND 5.4 B	Cleanup Method: RL 0.	EPA 3630C 99
Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0	SAMPLE 196019-004 lyte	Result ND	Cleanup Method: RL 0.	EPA 3630C 99
Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0	SAMPLE 196019-004 lyte C36	Result ND 5.4 F %REC Limits	Cleanup Method: RL 0.	EPA 3630C 99 0 07/19/07
Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0 Hexacosane Field ID: Type: Lab ID: Ana	SAMPLE 196019-004 lyte C36 ogate EB-31(B)-20.5 SAMPLE 196019-005 lyte	Result ND 5.4 F %REC Limits 96 40-127	Cleanup Method: RL 0. H L 5. Analyzed: Cleanup Method: RL	EPA 3630C 99 0 0 07/19/07 EPA 3630C
Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0 Hexacosane Field ID: Type: Lab ID:	SAMPLE 196019-004 lyte C36 ogate EB-31(B)-20.5 SAMPLE 196019-005 lyte	Result ND 5.4 F %REC Limits 96 40-127	Cleanup Method: RL 0. H L 5. Analyzed: Cleanup Method: RL H Y Z 1.	EPA 3630C 99 0 0 07/19/07 EPA 3630C 0
Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0 Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0	SAMPLE 196019-004 lyte C36 ogate EB-31(B)-20.5 SAMPLE 196019-005 lyte C36	Result ND 5.4 H %REC Limits 96 40-127	Cleanup Method: RL 0. H L 5. Analyzed: Cleanup Method: RL H Y Z 1.	EPA 3630C 99 0 0 07/19/07 EPA 3630C 0
Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0 Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0	SAMPLE 196019-004 lyte C36 ogate EB-31(B)-20.5 SAMPLE 196019-005 lyte	Result ND 5.4 H %REC Limits 96 40-127	Cleanup Method: RL 0. H L 5. Analyzed: Cleanup Method: RL H Y Z 1.	EPA 3630C 99 0 0 07/19/07 EPA 3630C 0

Y= Sample exhibits chromatographic pattern which does not resemble standard Z= Sample exhibits unknown single peak or peaks ND= Not Detected RL= Reporting Limit Page 1 of 3



	Т	otal 1	Extracta	ble Hydrocarbo	ns
Lab #:	196019			Location:	Hanson Radum
Client:	LFR Levine Fr	icke		Prep:	SHAKER TABLE
Project#:	001-09567-01			Analysis:	EPA 8015B 127346
Matrix: Units:	Soil mg/Kg			Batch#: Sampled:	07/16/07
Basis:	as received			Received:	07/16/07
Diln Fac:	1.000			Prepared:	07/17/07
				<u> </u>	
Field ID:	EB-31(C)-5			Analyzed:	07/19/07
Type: Lab ID:	SAMPLE 196019-006			Cleanup Method:	EPA 3630C
Ana Diesel C10-C24	lyte		Result 8.2 H	RL V Z	99
Motor Oil C24-			87 H L	5.	
	ogate	%REC			
Hexacosane		100	40-127		
Field ID:	EB-31(C)-10.5			Analyzed:	07/19/07
Type:	SAMPLE			Cleanup Method:	
Lab ID:	196019-007			ereanap neenea	
Ana Diesel C10-C24	lyte		Result 2.3 H	RL YZ 1.	0
Motor Oil C24-0	236	NI		5.	0
Surro	ogate	%REC	Limits		
Surro Hexacosane	ogate	%REC 113	Limits 40-127		
	ogate		Limits 40-127		
Hexacosane	-		Limits 40-127	Analyzed:	07/19/07
Hexacosane Field ID: Type:	EB-31(C)-15.5 SAMPLE		Limits 40-127		07/19/07 EPA 3630C
Hexacosane Field ID:	EB-31(C)-15.5		Limits 40-127	Analyzed: Cleanup Method:	
Hexacosane Field ID: Type: Lab ID:	EB-31(C)-15.5 SAMPLE 196019-008		40-127	Cleanup Method:	
Hexacosane Field ID: Type: Lab ID: Ana:	EB-31(C)-15.5 SAMPLE 196019-008 lyte		40-127 Result	Cleanup Method:	EPA 3630C
Hexacosane Field ID: Type: Lab ID:	EB-31(C)-15.5 SAMPLE 196019-008 lyte		40-127 Result 1.5 H	Cleanup Method:	EPA 3630C 99
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0	EB-31(C)-15.5 SAMPLE 196019-008 lyte	113 NI %REC	40-127 Result 1.5 H	Cleanup Method: RL Y Z 0.	EPA 3630C 99
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0	EB-31(C)-15.5 SAMPLE 196019-008 Lyte C36	113 	40-127 Result 1.5 H	Cleanup Method: RL Y Z 0.	EPA 3630C 99
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0	EB-31(C)-15.5 SAMPLE 196019-008 Lyte C36	113 NI %REC	40-127 Result 1.5 H	Cleanup Method: RL Y Z 0.	EPA 3630C 99
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0 Hexacosane Field ID:	EB-31(C)-15.5 SAMPLE 196019-008 Lyte C36	113 NI %REC	40-127 Result 1.5 H	Cleanup Method: RL Y Z 0. 5. Analyzed:	EPA 3630C 99 0 07/19/07
Hexacosane Field ID: Type: Lab ID: Motor Oil C24-0 Motor Oil C24-0 Hexacosane Field ID: Type:	EB-31(C)-15.5 SAMPLE 196019-008 Lyte C36 Dgate EB-31(C)-20 SAMPLE	113 NI %REC	40-127 Result 1.5 H	Cleanup Method: <u>RL</u> Y Z 0. 5.	EPA 3630C 99 0 07/19/07
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0 Hexacosane Field ID:	EB-31(C)-15.5 SAMPLE 196019-008 Lyte C36 Dgate EB-31(C)-20	113 NI %REC	40-127 Result 1.5 H	Cleanup Method: RL Y Z 0. 5. Analyzed:	EPA 3630C 99 0 07/19/07
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0 Field ID: Type: Lab ID: Ana: Ana: Ana: Surre	EB-31(C)-15.5 SAMPLE 196019-008 lyte C36 Dgate EB-31(C)-20 SAMPLE 196019-009 lyte	113 NI %REC 83	Result Limits 40-127 Result	Cleanup Method: RL Y Z 0. 5. Analyzed: Cleanup Method: RL	EPA 3630C 99 0 0 07/19/07 EPA 3630C
Hexacosane Field ID: Type: Lab ID: Ana: Diesel C10-C24 Motor Oil C24-C Hexacosane Field ID: Type: Lab ID:	EB-31(C)-15.5 SAMPLE 196019-008 lyte C36 Dgate EB-31(C)-20 SAMPLE 196019-009 lyte	113 NI %REC	A0-127 Result Limits 40-127 Result	Cleanup Method: <u>RL</u> Y Z 0. 5. Analyzed: Cleanup Method:	EPA 3630C 99 0 0 07/19/07 EPA 3630C 0
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-C Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-C	EB-31(C)-15.5 SAMPLE 196019-008 lyte C36 Dgate EB-31(C)-20 SAMPLE 196019-009 lyte	113 NI %REC 83	Result 1.5 H Limits 40-127 Result	Cleanup Method: RL Y Z 0. 5. Analyzed: Cleanup Method: RL 1.	EPA 3630C 99 0 07/19/07 EPA 3630C 0
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-C Hexacosane Field ID: Type: Lab ID: Ana. Diesel C10-C24 Motor Oil C24-C	EB-31(C)-15.5 SAMPLE 196019-008 lyte C36 Dgate EB-31(C)-20 SAMPLE 196019-009 lyte C36	113 NI %REC 83 NI NI	Result 1.5 H Limits 40-127 Result	Cleanup Method: RL Y Z 0. 5. Analyzed: Cleanup Method: RL 1.	EPA 3630C 99 0 0 07/19/07 EPA 3630C 0

L= Lignter nydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard Z= Sample exhibits unknown single peak or peaks ND= Not Detected RL= Reporting Limit Page 2 of 3



	г	otal Extracta	ble Hydrocarbo	ns
Lab #:	196019		Location:	Hanson Radum
Client:	LFR Levine Fr	icke	Prep:	SHAKER TABLE
Project#:	001-09567-01		Analysis:	EPA 8015B
Matrix:	Soil		Batch#:	127346
Units:	mg/Kg		Sampled:	07/16/07
Basis:	as received		Received:	07/16/07
Diln Fac:	1.000		Prepared:	07/17/07
Type: Lab ID:	BLANK QC396685		Analyzed: Cleanup Method:	
	alyte	Result	RL	0.0
Diesel C10-C24		ND		99
Motor Oil C24-	-036	ND	5.	U
Surr	rogate	%REC Limits		
Hexacosane		97 40-127		



	Total Extractable Hydrocarbons				
Lab #:	196019	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	SHAKER TABLE		
Project#:	001-09567-01	Analysis:	EPA 8015B		
Туре:	LCS	Diln Fac:	1.000		
Lab ID:	QC396686	Batch#:	127346		
Matrix:	Soil	Prepared:	07/17/07		
Units:	mg/Kg	Analyzed:	07/18/07		
Basis:	as received				

Cleanup Method: EPA 3630C

Hexacosane

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.87	47.98	96	58-127
Surrogate	%REC Limits			

40-127

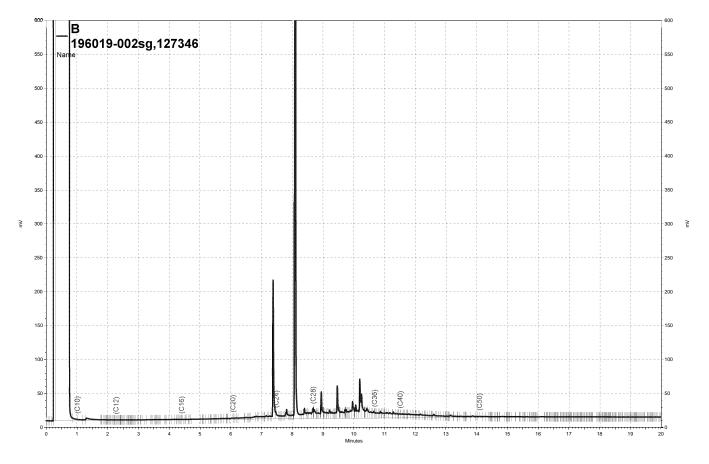
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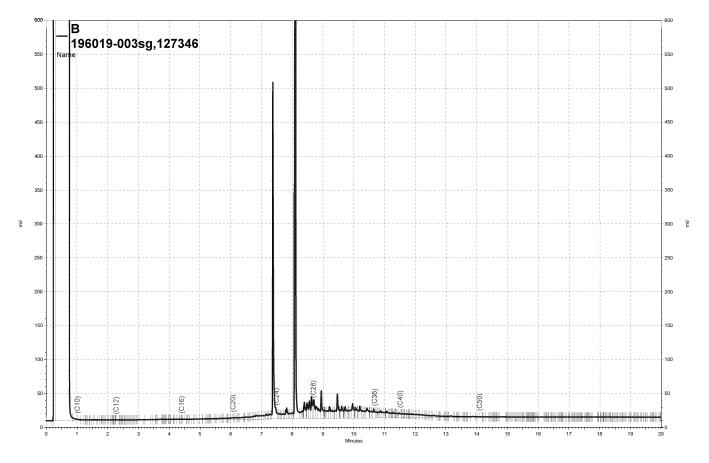
Lab #:	196019			Location:	Hanson Radum		
Client:	LFR Levine F	ricke		Prep:	SHAKER TABLE		
Project#:	001-09567-01	L		Analysis:	EPA 8015B		
Field ID:	ZZZZZZZZZZ			Batch#:	127346		
MSS Lab ID:	195992-005			Sampled:	07/13/07		
Matrix:	Soil			Received:	07/16/07		
Units:	mg/Kg			Prepared:	07/17/07		
Basis:	as received			Analyzed:	07/18/07		
Diln Fac:	5.000						
Type:	MS			Cleanup Method:	EPA 3630C		
ab ID:	QC396687	MSS Res	11]+			*BE(Limita
ab ID: Anal	QC396687	MSS Res		Spiked	Result	%REC	Limits 29-147
ab ID: Anal	QC396687	MSS Res 1,38					Limits 29-147
ab ID: Anal Diesel C10-C2	QC396687			Spiked	Result		
ab ID: Anal Diesel C10-C2 Sur	QC396687	1,38	9	Spiked	Result		
ab ID: Anal Diesel C10-C2	QC396687	1,38 %REC	9 Limits	Spiked	Result		
ab ID: Anal Diesel C10-C2 Sur	QC396687	1,38 %REC	9 Limits	Spiked	Result 1,631		

Analyte	Spiked	Result	%REC Limits	RPD Lim
Diesel C10-C24	49.90	1,650	524 NM 29-147	1 46

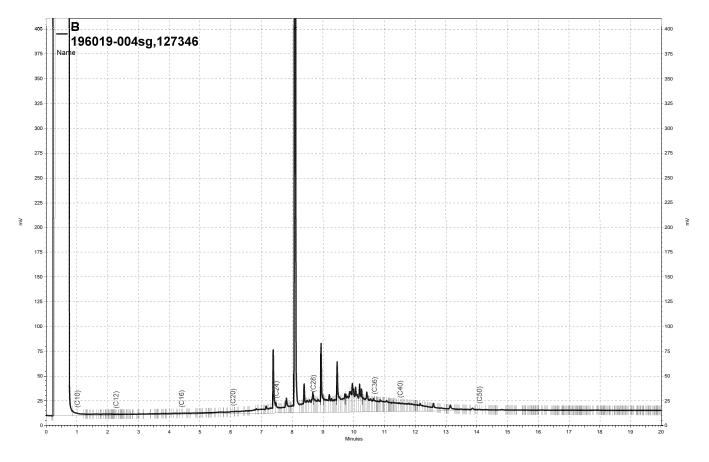
Surrogate	%REC	Limits
Hexacosane	115	40-127



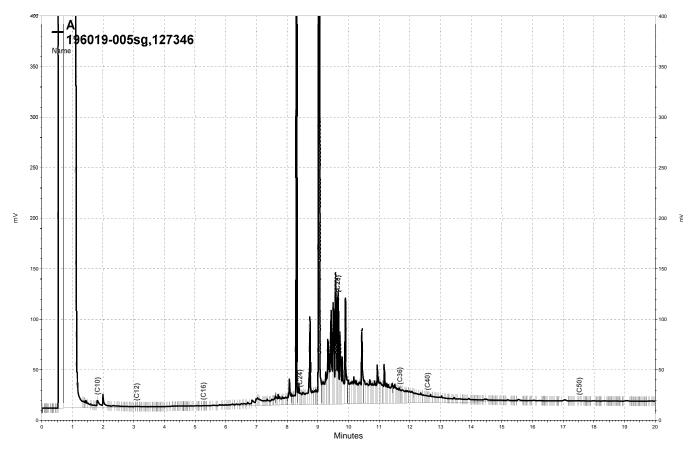
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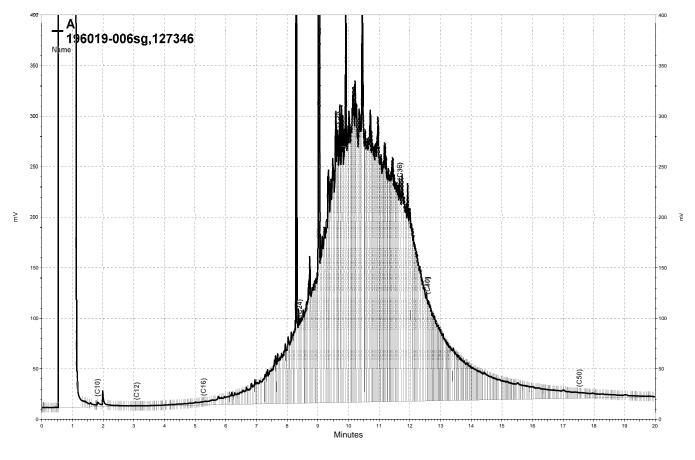
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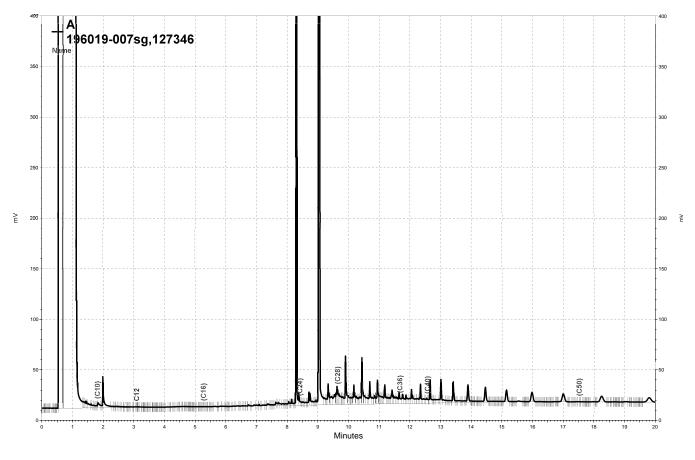
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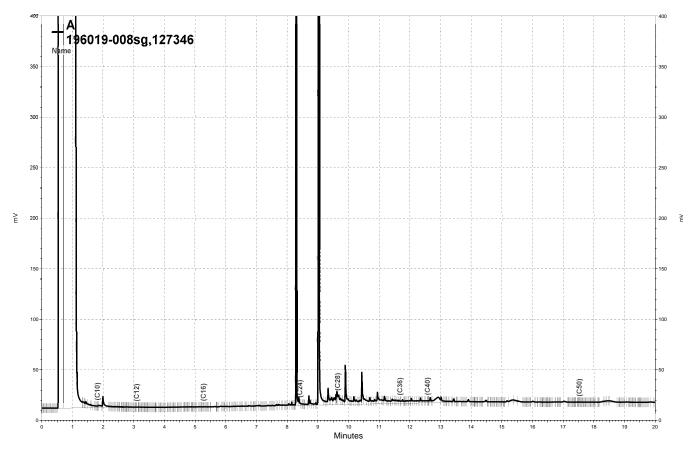
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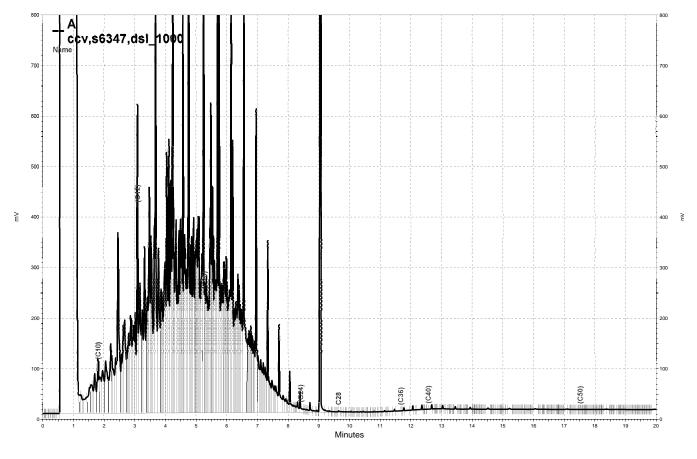
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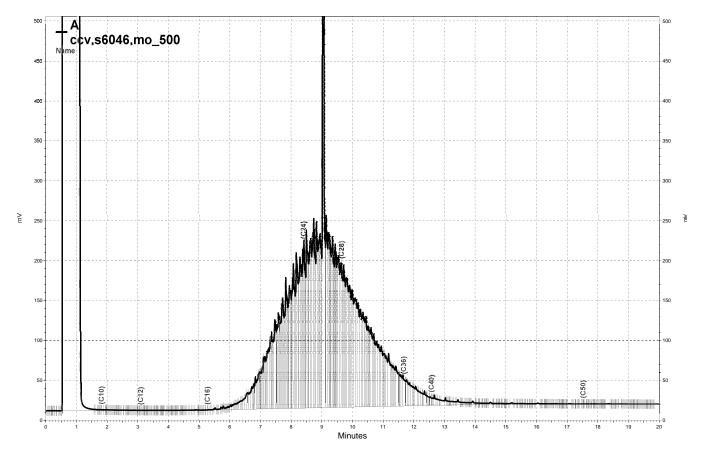
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\\Lims\gdrive\ezchrom\Projects\GC17A\Data\198a049, A



	Gaso	oline by GC/MS		
Lab #: Client: Project#:	196019 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B	
Field ID: Lab ID: Matrix: Units: Diln Fac:	EB-31(B)-GGW 196019-001 Water ug/L 1.000	Batcĥ#: Sampled: Received: Analyzed:	127360 07/16/07 07/16/07 07/18/07	

Analyte	Result	RI.
Gasoline C7-C12	ND	50
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
	ND	1.0
Chloromethane		
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
	ND	0.5
cis-1,3-Dichloropropene Toluene	ND	0.5
		0.5
trans-1,3-Dichloropropene	ND	
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5

ND= Not Detected RL= Reporting Limit Page 1 of 2



	Gasolin	e by GC/MS		
Lab #: 196019		Location:	Hanson Radum	
Client: LFR Levine F	ricke	Prep:	EPA 5030B	
Project#: 001-09567-01		Analysis:	EPA 8260B	
Field ID: EB-31(B)-GGW		Batch#:	127360	
Lab ID: 196019-001		Sampled:	07/16/07	
Matrix: Water		Received:	07/16/07	
Units: ug/L		Analyzed:	07/18/07	
Diln Fac: 1.000				
Analyte	Result		RL	_
Propylbenzene	ND		0.5	
Bromobenzene	ND		0.5	
1,3,5-Trimethylbenzene	ND		0.5	
2-Chlorotoluene	ND		0.5	
4-Chlorotoluene	ND		0.5	
tert-Butylbenzene	ND		0.5	
1,2,4-Trimethylbenzene	ND		0.5 0.5	
sec-Butylbenzene	ND		0.5	
para-Isopropyl Toluene	ND		0.5	
1,3-Dichlorobenzene	ND		0.5	
1,4-Dichlorobenzene	ND		0.5	
n-Butylbenzene 1,2-Dichlorobenzene	ND ND		0.5	
1,2-Dichiorobelizelle	ND ND		2.0	
1,2-Dibromo-3-Chloropropane 1,2,4-Trichlorobenzene	ND ND		0.5	
Hexachlorobutadiene	ND ND		0.5	
Naphthalene	ND		2.0	
1,2,3-Trichlorobenzene	ND		0.5	
			0.5	
Surrogate	%REC Limits			
Dibromofluoromethane	97 80-123			
1,2-Dichloroethane-d4	97 79-134			
Toluene-d8	99 80-120			
Bromofluorobenzene	100 80-122			



	Gasoline by GC/MS				
Lab #: Client: Project#:	196019 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B		
Type: Lab ID: Matrix: Units:	BLANK QC396744 Water ug/L	Diln Fac: Batch#: Analyzed:	1.000 127360 07/18/07		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
-,-, -, - IIIOIIIOIOPIOPUIC	1,2	· · ·

ND= Not Detected RL= Reporting Limit Page 1 of 2



	Gas	oline by GC/MS		
Lab #: Client: Project#:	196019 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B	
Type: Lab ID: Matrix: Units:	BLANK QC396744 Water ug/L	Diln Fac: Batch#: Analyzed:	1.000 127360 07/18/07	
		ult R	L	

Analyte		Result	RL
Propylbenzene	ND		0.5
Bromobenzene	ND		0.5
1,3,5-Trimethylbenzene	ND		0.5
2-Chlorotoluene	ND		0.5
4-Chlorotoluene	ND		0.5
tert-Butylbenzene	ND		0.5
1,2,4-Trimethylbenzene	ND		0.5
sec-Butylbenzene	ND		0.5
para-Isopropyl Toluene	ND		0.5
1,3-Dichlorobenzene	ND		0.5
1,4-Dichlorobenzene	ND		0.5
n-Butylbenzene	ND		0.5
1,2-Dichlorobenzene	ND		0.5
1,2-Dibromo-3-Chloropropane	ND		2.0
1,2,4-Trichlorobenzene	ND		0.5
Hexachlorobutadiene	ND		0.5
Naphthalene	ND		2.0
1,2,3-Trichlorobenzene	ND		0.5
	0.5.7.4	-	
Surrogate	%REC	Limits	
Dibromofluoromethane	96	80-123	
1,2-Dichloroethane-d4	96	79-134	
Toluene-d8	100	80-120	
Bromofluorobenzene	98	80-122	



	Gasoline	by GC/MS	
Lab #: Client: Project#:	196019 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B
Matrix: Units: Diln Fac:	Water ug/L 1.000	Batch#: Analyzed:	127360 07/18/07

Type: BS			Lab ID:	QC3	96745		
Analyte		Spiked		Result	%REC	Limits	
tert-Butyl Alcohol (TBA)		125.0		137.5	110	68-132	
Isopropyl Ether (DIPE)		25.00		25.20	101	65-120	
Ethyl tert-Butyl Ether (ETBE)		25.00		28.31	113	75-124	
Methyl tert-Amyl Ether (TAME)		25.00		29.88	120	77-120	
1,1-Dichloroethene		25.00		29.27	117	80-132	
Benzene		25.00		27.35	109	80-120	
Trichloroethene		25.00		25.55	102	80-120	
Toluene		25.00		28.26	113	80-120	
Chlorobenzene		25.00		26.81	107	80-120	
Surrogate	%REC	Limits					
Dibromofluoromethane	98	80-123					
1,2-Dichloroethane-d4	96	79-134					

Dibromofluoromethane	98	80-123
1,2-Dichloroethane-d4	96	79-134
Toluene-d8	99	80-120
Bromofluorobenzene	98	80-122

Type: BSD			Lab ID:	QC39	6746			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)		125.0		125.1	100	68-132	9	20
Isopropyl Ether (DIPE)		25.00		23.70	95	65-120	6	20
Ethyl tert-Butyl Ether (ETBE)		25.00		26.28	105	75-124	7	20
Methyl tert-Amyl Ether (TAME)		25.00		27.41	110	77-120	9	20
1,1-Dichloroethene		25.00		27.31	109	80-132	7	20
Benzene		25.00		25.83	103	80-120	6	20
Trichloroethene		25.00		23.96	96	80-120	6	20
Toluene		25.00		26.39	106	80-120	7	20
Chlorobenzene		25.00		25.47	102	80-120	5	20
Surrogate	%REC	Limits						
Dibromofluoromethane	97	80-123						
1,2-Dichloroethane-d4	97	79-134						
Toluene-d8	100	80-120						
Bromofluorobenzene	96	80-122						



Gasoline by GC/MS				
Lab #:	196019	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Matrix:	Water	Batch#:	127360	
Units:	ug/L	Analyzed:	07/18/07	
Diln Fac:	1.000			

Type:

BS

Lab ID: QC396827

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,500	1,427	95	70-130

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-123
1,2-Dichloroethane-d4	95	79-134
Toluene-d8	99	80-120
Bromofluorobenzene	97	80-122

Type:	BSD			Lab ID:		QC396828			
	Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Gasoline C	27-C12		1,500		1,399	93	70-130	2	20
	Surrogate	%REC	Limits						
Dibromoflu	oromethane	97	80-123						
1,2-Dichlo	roethane-d4	97	79-134						
Toluene-d8	}	98	80-120						
Bromofluor	obenzene	96	80-122						



	Gasoline	by GC/MS	
Lab #:	196019	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-01	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZ	Batch#:	127360
MSS Lab ID:	196040-002	Sampled:	07/17/07
Matrix:	Water	Received:	07/17/07
Units:	ug/L	Analyzed:	07/19/07
Diln Fac:	1.000	-	

Type:	MS			Lab ID:	QC396910		
	Analyte	MSS	Result	Spiked	Result	%REC	Limits
tert-Butyl	Alcohol (TBA)		<1.579	125.0	124.4	99	69-137
Isopropyl E	Cther (DIPE)		<0.04032	25.00	25.43	102	69-120
	Butyl Ether (ETBE)		<0.07412	25.00	27.36	109	78-127
Methyl tert	-Amyl Ether (TAME)		<0.04870	25.00	28.79	115	79-120
1,1-Dichlor	roethene		<0.09386	25.00	27.83	111	80-139
Benzene			<0.2500	25.00	26.96	108	80-123
Trichloroet	hene		<0.1151	25.00	25.03	100	75-129
Toluene			<0.1338	25.00	27.15	109	80-122
Chlorobenze	ene		<0.1569	25.00	26.43	106	80-120
	Surrogate	%REC	Limits				
Dibromofluc	promethane	99	80-123				
1,2-Dichlor	roethane-d4	100	79-134				
Toluene-d8		100	80-120				
Bromofluorc	obenzene	97	80-122				

Type: MSD			Lab ID:	QC39	6911			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)		125.0		123.8	99	69-137	0	20
Isopropyl Ether (DIPE)		25.00		24.50	98	69-120	4	20
Ethyl tert-Butyl Ether (ETBE)		25.00		26.41	106	78-127	4	20
Methyl tert-Amyl Ether (TAME)		25.00		27.83	111	79-120	3	20
1,1-Dichloroethene		25.00		26.78	107	80-139	4	20
Benzene		25.00		26.47	106	80-123	2	20
Trichloroethene		25.00		24.48	98	75-129	2	20
Toluene		25.00		26.57	106	80-122	2	20
Chlorobenzene		25.00		26.07	104	80-120	1	20
Surrogate	%REC	Limits						
Dibromofluoromethane	99	80-123						
1,2-Dichloroethane-d4	97	79-134						
Toluene-d8	98	80-120						
Bromofluorobenzene	98	80-122						



LFR Levine Fricke 1900 Powell Street Emergrille CA 94608	Project : 001-09567-01 Location : Hanson Radum
Emeryville, CA 94608	Level : II

Sample ID	Lab ID
EB-31(A)-5.5	196042-001
EB-31(A)-10.5	196042-002
EB-31(A)-15.5	196042-003
EB-31(A)-20.5	196042-004
B-1(A)-4.5	196042-005
B-1(A)-9.5	196042-006
B-1(A)-35	196042-007
B-1(A)-36.5	196042-008
EB-35(A)-3	196042-009
EB-35(A)-4	196042-010
EB-35(A)-9.5	196042-011
EB-35(B)-2.5	196042-012
EB-35(B)-5	196042-013
EB-35(B)-9	196042-014

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: Project Manager Signature: Operations Manager

Date: <u>07/30/2007</u>

Date: 07/30/2007

NELAP # 01107CA

Page 1 of ____



CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 196042 LFR Levine Fricke 001-09567-01 Hanson Radum 07/17/07 07/17/07

This hardcopy data package contains sample and QC results for eleven soil samples, requested for the above referenced project on 07/17/07. The samples were received cold and intact. All data were e-mailed to Katrin Schliewen on 07/24/07.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):

No analytical problems were encountered.

Polychlorinated Biphenyls (PCBs) (EPA 8082):

Low surrogate recovery was observed for TCMX in the method blank for batch 127391; the corresponding decachlorobiphenyl surrogate recovery was within limits. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

No analytical problems were encountered.



		Total	Volatil	.e Hydrocarb	oons	
- 1 - 1	101010					
Lab #:	196042			Location:	Hanson Radum	
Client:	LFR Levine Fr	ricke		Prep:	EPA 5030B	
Project#:	001-09567-01			Analysis:	EPA 8015B	
Matrix:	Soil			Batch#:	127379	
Units:	mg/Kg			Sampled:	07/17/07	
Basis:	as received			Received:	07/17/07	
Diln Fac:	1.000					
Field ID:	B-1(A)-4.5			Lab ID:	196042-005	
Type:	SAMPLE			Analyzed:	07/19/07	
1/20				Initial y Dear	0,, 10, 0,	
Ar	nalyte		Result		RL	
Gasoline C7-0		NI			1.0	
	-					
Sui	rrogate	%REC	Limits			
Trifluorotolu		118	70-132			
Bromofluorobe		128	66-138			
Field ID:	B-1(A)-9.5				100010 000	
	$D \perp (\Pi) \rightarrow 0$			Lab ID:	196042-006	
Type:	SAMPLE			Lab ID: Analyzed:	196042-006 07/19/07	
Туре:	SAMPLE		Regul+		07/19/07	
Type:	SAMPLE nalyte	NI	Result		07/19/07 RL	
Туре:	SAMPLE nalyte	NI			07/19/07	
Type: Ar Gasoline C7-C	SAMPLE nalyte C12)		07/19/07 RL	
Type: Gasoline C7-C	SAMPLE malyte C12 rrogate	%REC) Limits		07/19/07 RL	
Type: Gasoline C7-C	SAMPLE nalyte C12 rrogate uene (FID)	% REC	Limits 70-132		07/19/07 RL	
Type: Gasoline C7-C	SAMPLE nalyte C12 rrogate uene (FID)	%REC) Limits		07/19/07 RL	
Type: Gasoline C7-C	SAMPLE nalyte C12 rrogate uene (FID)	% REC	Limits 70-132		07/19/07 RL	
Type: Gasoline C7-C	SAMPLE nalyte C12 rrogate uene (FID)	% REC	Limits 70-132		07/19/07 RL	
Type: Gasoline C7-C Sur Trifluorotolu Bromofluorobe	SAMPLE malyte C12 rrogate uene (FID) enzene (FID)	% REC	Limits 70-132	Analyzed:	07/19/07 RL 0.94	
Type: Gasoline C7-C Sur Trifluorotolu Bromofluorobe Type:	SAMPLE malyte C12 rrogate uene (FID) enzene (FID) BLANK	% REC	Limits 70-132		07/19/07 RL	
Type: Gasoline C7-C Sur Trifluorotolu Bromofluorobe	SAMPLE malyte C12 rrogate uene (FID) enzene (FID)	% REC	Limits 70-132	Analyzed:	07/19/07 RL 0.94	
Type: Gasoline C7-C Sun Trifluorotolu Bromofluorobe Type: Lab ID:	SAMPLE nalyte Cl2 rrogate uene (FID) enzene (FID) BLANK QC396807	% REC	Limits 70-132 66-138	Analyzed:	07/19/07 RL 0.94 07/18/07	
Type: Gasoline C7-C Sun Trifluorotolu Bromofluorobe Type: Lab ID: An	SAMPLE nalyte C12 rrogate uene (FID) enzene (FID) BLANK QC396807 nalyte	%REC 118 124	Limits 70-132 66-138 Result	Analyzed:	07/19/07 RL 0.94 07/18/07 RL	
Type: Gasoline C7-C Sun Trifluorotolu Bromofluorobe Type: Lab ID:	SAMPLE nalyte C12 rrogate uene (FID) enzene (FID) BLANK QC396807 nalyte	% REC	Limits 70-132 66-138 Result	Analyzed:	07/19/07 RL 0.94 07/18/07	
Type: Gasoline C7-C Trifluorotolu Bromofluorobe Type: Lab ID: Ar Gasoline C7-C	SAMPLE nalyte C12 rrogate uene (FID) enzene (FID) BLANK QC396807 nalyte C12	%REC 118 124 NI	Limits 70-132 66-138 Result	Analyzed:	07/19/07 RL 0.94 07/18/07 RL	
Type: Gasoline C7-C Sun Trifluorotolu Bromofluorobe Type: Lab ID: An Gasoline C7-C Sun	SAMPLE nalyte C12 rrogate uene (FID) enzene (FID) BLANK QC396807 nalyte C12 rrogate	%REC 118 124 NI NI	Limits 70-132 66-138 Result	Analyzed:	07/19/07 RL 0.94 07/18/07 RL	
Type: Gasoline C7-C Trifluorotolu Bromofluorobe Type: Lab ID: Ar Gasoline C7-C	SAMPLE malyte C12 rrogate uene (FID) enzene (FID) BLANK QC396807 malyte C12 rrogate uene (FID)	%REC 118 124 NI	Limits 70-132 66-138 Result	Analyzed:	07/19/07 RL 0.94 07/18/07 RL	



	Total Volatil	e Hydrocarbons	
Lab #:	196042	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-01	Analysis:	EPA 8015B
Туре:	LCS	Basis:	as received
Lab ID:	QC396809	Diln Fac:	1.000
Matrix:	Soil	Batch#:	127379
Units:	mg/Kg	Analyzed:	07/18/07

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.002	90	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	128	70-132
Bromofluorobenzene (FID)	121	66-138



Total Volatile Hydrocarbons					
Lab #:	196042	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 5030B		
Project#:	001-09567-01	Analysis:	EPA 8015B		
Field ID:	B-1(A)-4.5	Diln Fac:	1.000		
MSS Lab ID:	196042-005	Batch#:	127379		
Matrix:	Soil	Sampled:	07/17/07		
Units:	mg/Kg	Received:	07/17/07		
Basis:	as received	Analyzed:	07/18/07		

Type:	MS			Lab ID:	QC	2396810			
	Analyte	MSS Re	sult	Spik	ed	Result	%REC	Lin	nits
Gasoline	C7-C12		0.2479	9	.804	6.949	68	36-	120
	Surrogate	%REC	Limits						
Trifluorc	toluene (FID)	119	70-132						
Bromofluc	probenzene (FID)	114	66-138						
Туре:	MSD			Lab ID:	QC	2396811			
	Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Gasoline	C7-C12		10.42		7.440) 69	36-120	1	29
	Surrogate	%REC	T.imits						

Surrogate	%REC	Limits	
Trifluorotoluene (FID)	122	70-132	
Bromofluorobenzene (FID)	120	66-138	



	Total	Extracta	ble Hydrocarbo	ns
Client: Project#:	196042 LFR Levine Fricke 001-09567-01		Location: Prep: Analysis:	Hanson Radum SHAKER TABLE EPA 8015B
Units: 1	Soil mg/Kg as received		Sampled: Received:	07/17/07 07/17/07
Type: Si Lab ID: 11 Diln Fac: 1	B-31(A)-5.5 AMPLE 96042-001 .000		Batch#: Prepared: Analyzed: Cleanup Method:	127373 07/18/07 07/20/07 EPA 3630C
Analyto Diesel C10-C24 Motor Oil C24-C36	9	<u>Result</u> 1.3 н 16 н	RL 1. 5.	
Surroga Hexacosane	te %RE 83	C Limits 40-127		
Type: Si Lab ID: 1	B-31(A)-10.5 AMPLE 96042-002 .000		Batch#: Prepared: Analyzed: Cleanup Method:	127373 07/18/07 07/20/07 EPA 3630C
Analyte Diesel C10-C24 Motor Oil C24-C36	e	Result 14 H Y 170 H	RL 2. 9.	
Surroga Hexacosane	te %RE 91	-		
Type: Si Lab ID: 1	B-31(A)-15.5 AMPLE 96042-003 .000		Batch#: Prepared: Analyzed: Cleanup Method:	127373 07/18/07 07/21/07 EPA 3630C
Analyto	9	Result ND	RL 0.	99
Motor Oil C24-C36		ND	5.	
Surroga Hexacosane	t e %RE 98	C Limits 40-127		

H= Heavier hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard

DO= Diluted Out ND= Not Detected RL= Reporting Limit

Page 1 of 5



	T	otal E	Extracta	ble Hydrocarbo	ns
Lab #: Client: Project#:	196042 LFR Levine Fr: 001-09567-01	icke		Location: Prep: Analysis:	Hanson Radum SHAKER TABLE EPA 8015B
Matrix: Units: Basis:	Soil mg/Kg as received			Sampled: Received:	07/17/07 07/17/07
Field ID: Type: Lab ID: Diln Fac:	EB-31(A)-20.5 SAMPLE 196042-004 1.000			Batch#: Prepared: Analyzed: Cleanup Method:	127373 07/18/07 07/21/07 EPA 3630C
	lyte		Result	RL	
Diesel C10-C24 Motor Oil C24-		ND ND		1. 5.	
		0.DEC	T		
Hexacosane	ogate	%REC 89	Limits 40-127		
Field ID: Type: Lab ID: Diln Fac:	B-1(A)-4.5 SAMPLE 196042-005 1.000			Batch#: Prepared: Analyzed: Cleanup Method:	127373 07/18/07 07/21/07 EPA 3630C
Ana Diesel C10-C24	lyte	ND	Result	<u>RL</u>	0
Motor Oil C24-		ND		5.	
Surr Hexacosane	ogate	% REC 74	Limits 40-127		
Field ID:	B-1(A)-9.5	, 1	10 12,	Batch#:	127373
Type: Lab ID: Diln Fac:	SAMPLE 196042-006 1.000			Prepared: Analyzed: Cleanup Method:	07/18/07 07/21/07 EPA 3630C
	lyte		Result	RL	
Diesel C10-C24 Motor Oil C24-		ND	7.4 H	1. I 5.	
Surr	ogate	%REC	Limits	v.	·
Hexacosane		88	40-127		

H= Heavier hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard DO= Diluted Out ND= Not Detected RL= Reporting Limit Page 2 of 5



	ſ	otal E	Extracta	ble Hydrocarbo	ns
Lab #: Client: Project#:	196042 LFR Levine Fr 001-09567-01	icke		Location: Prep: Analysis:	Hanson Radum SHAKER TABLE EPA 8015B
Matrix: Units: Basis:	Soil mg/Kg as received			Sampled: Received:	07/17/07 07/17/07
Field ID: Type: Lab ID: Diln Fac:	B-1(A)-35 SAMPLE 196042-007 1.000			Batch#: Prepared: Analyzed: Cleanup Method:	127373 07/18/07 07/20/07 EPA 3630C
7.5	lyte		Result	RL	
Diesel C10-C24 Motor Oil C24-		ND ND)	1. 5.	
Surr	rogate	%REC	Limits		
Hexacosane	Jogace	92	40-127		
Field ID: Type: Lab ID: Diln Fac:	EB-35(A)-4 SAMPLE 196042-010 3.000			Batch#: Prepared: Analyzed: Cleanup Method:	127373 07/18/07 07/20/07 EPA 3630C
	lyte		Result	RL	0
Diesel C10-C24 Motor Oil C24-			48 Н Ү 540 Н	3. 15	0
Surr	rogate	%REC	Limits		
Hexacosane		86	40-127		
Field ID:	EB-35(A)-9.5			Batch#:	127535
Type: Lab ID: Diln Fac:	SAMPLE 196042-011 1.000			Prepared: Analyzed: Cleanup Method:	07/23/07 07/24/07 EPA 3630C
Ana	lyte		Result	RL	
Diesel C10-C24 Motor Oil C24-	-C36	ND) 5.2 H	1. I 5.	
Surr	rogate	%REC	Limits		
Hexacosane	-	85	40-127		

H= Heavier hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard DO= Diluted Out ND= Not Detected RL= Reporting Limit Page 3 of 5



	נ	otal I	Extracta	ble Hydrocarbo	
Lab #: Client: Project#:	196042 LFR Levine Fr 001-09567-01	ricke		Location: Prep: Analysis:	Hanson Radum SHAKER TABLE EPA 8015B
Matrix: Units: Basis:	Soil mg/Kg as received			Sampled: Received:	07/17/07 07/17/07
Babib					
Field ID: Type:	EB-35(B)-5 SAMPLE			Batch#: Prepared:	127373 07/18/07
Lab ID: Diln Fac:	196042-013 20.00			Analyzed: Cleanup Method:	07/20/07 EPA 3630C
	lyte		Result	RL	
Diesel C10-C24 Motor Oil C24-			160 Н Ү 3,600 Н	40 200	
Surr	ogate	%REC	Limits		
Hexacosane		DO	40-127		
Field ID: Type: Lab ID: Diln Fac:	EB-35(B)-9 SAMPLE 196042-014 1.000			Batch#: Prepared: Analyzed: Cleanup Method:	127373 07/18/07 07/20/07 EPA 3630C
Ana Diesel C10-C24	lyte	NE	Result	RL	99
Motor Oil C24-		NL		5.	
	ogate	% REC 81	Limits 40-127		
Hexacosane		01	40-127		
Type: Lab ID:	BLANK QC396784			Prepared: Analyzed:	07/18/07 07/20/07
Diln Fac: Batch#:	1.000 127373			Cleanup Method:	EPA 3630C
	lyte		Result	RL	
Diesel C10-C24 Motor Oil C24-		NE NE		1. 5.	
Surr	ogate	%REC	Limits		
Hexacosane		88	40-127		

H= Heavier hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard DO= Diluted Out ND= Not Detected RL= Reporting Limit Page 4 of 5



		Total Extracta	ble Hydrocarbo	ns
Lab #: Client: Project#:	196042 LFR Levine F 001-09567-01	ricke	Location: Prep: Analysis:	Hanson Radum SHAKER TABLE EPA 8015B
Matrix: Units: Basis:	Soil mg/Kg as received		Sampled: Received:	07/17/07 07/17/07
Type: Lab ID: Diln Fac: Batch#:	BLANK QC397580 1.000 127535		Prepared: Analyzed: Cleanup Method:	07/23/07 07/24/07 EPA 3630C
An Diesel C10-C2 Motor Oil C24		Result ND ND	<u>RL</u> 1. 5.	
Sur Hexacosane	rrogate	%REC Limits 72 40-127		



	Total Extracta	ble Hydrocarbo	ns
Lab #:	196042	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	SHAKER TABLE
Project#:	001-09567-01	Analysis:	EPA 8015B
Туре:	LCS	Diln Fac:	1.000
Lab ID:	QC396785	Batch#:	127373
Matrix:	Soil	Prepared:	07/18/07
Units:	mg/Kg	Analyzed:	07/21/07
Basis:	as received		

Cleanup Method: EPA 3630C

Hexacosane

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.88	42.07	84	58-127
Surrogate	%REC Limits			

40-127

95



Lab #:	196042	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	SHAKER TABLE
Project#:	001-09567-01	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	196005-001	Batch#:	127373
Matrix:	Soil	Sampled:	07/13/07
Units:	mg/Kg	Received:	07/16/07
Basis:	as received	Prepared:	07/18/07
Гуре:	MS	Analyzed:	07/20/07
Lab ID:	QC396786	Cleanup Method:	EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	45.11	49.90	83.96	78	29-147
Surrogate	%REC Limits				

Type: Lab ID:	MSD QC396787		Analyzed: Cleanup Method:	07/24/07 EPA 3630C			
	Analyte	Spiked	Result	%REC	Limits	RPD L	im
Diesel C10	-C24	49.94	63.	87 38	29-147	27 4	6



Total Extractable Hydrocarbons					
Lab #:	196042	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	SHAKER TABLE		
Project#:	001-09567-01	Analysis:	EPA 8015B		
Туре:	LCS	Diln Fac:	1.000		
Lab ID:	QC397581	Batch#:	127535		
Matrix:	Soil	Prepared:	07/23/07		
Units:	mg/Kg	Analyzed:	07/24/07		
Basis:	as received				

Cleanup Method: EPA 3630C

Hexacosane

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.84	36.64	74	58-127
Surrogate	%REC Limits			

40-127

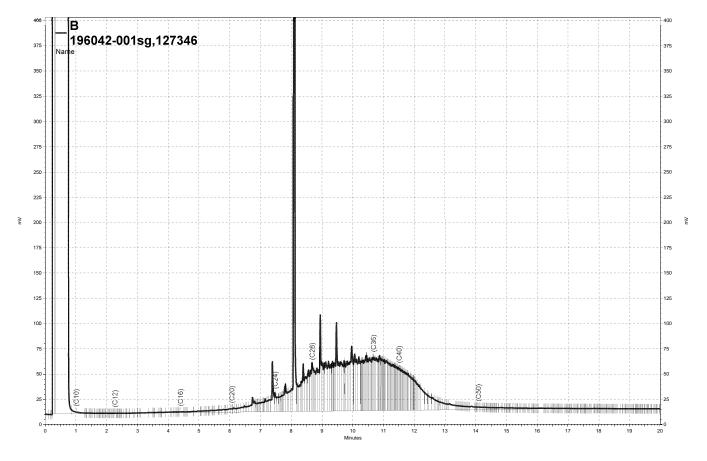
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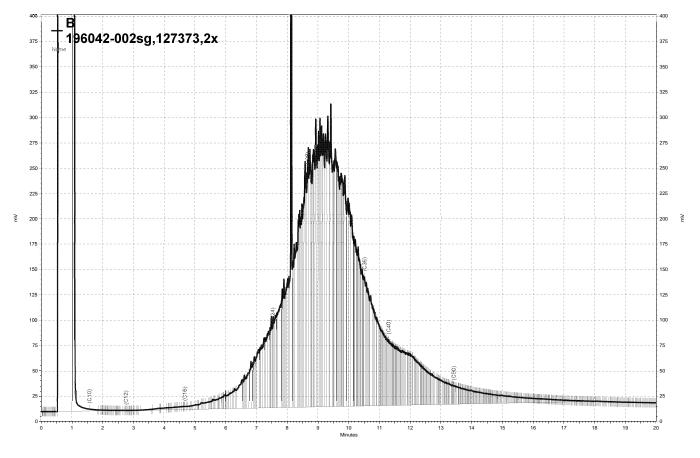
Total Extractable Hydrocarbons							
Lab #:	196042			Location:	Hanson Radum		
Client:	LFR Levine F	ricke		Prep:	SHAKER TABLE		
Project#:	001-09567-01			Analysis:	EPA 8015B		
Field ID:	ZZZZZZZZZZ			Batch#:	127535		
MSS Lab ID:	196124-006			Sampled:	07/20/07		
Matrix:	Soil			Received:	07/20/07		
Units:	mg/Kg			Prepared:	07/23/07		
Basis:	as received			Analyzed:	07/24/07		
Diln Fac:	1.000						
Type: Lab ID: Analy	MS QC397582 te	MSS Res	sult	Cleanup Method: Spiked	EPA 3630C	%REC	Limits
Diesel C10-C24			2.332	49.92	30.59	57	29-147
	ogate	%REC 57	Limits 40-127				-
nexacosane		10	10-121				
Type: Lab ID:	MSD QC397583			Cleanup Method:	EPA 3630C		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.88	40.57	77	29-147	28	46

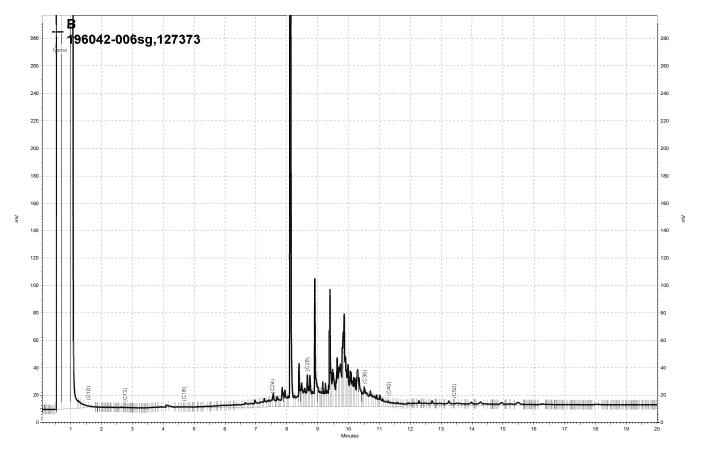
Surrogate %REC Limits
acosane 79 40-127



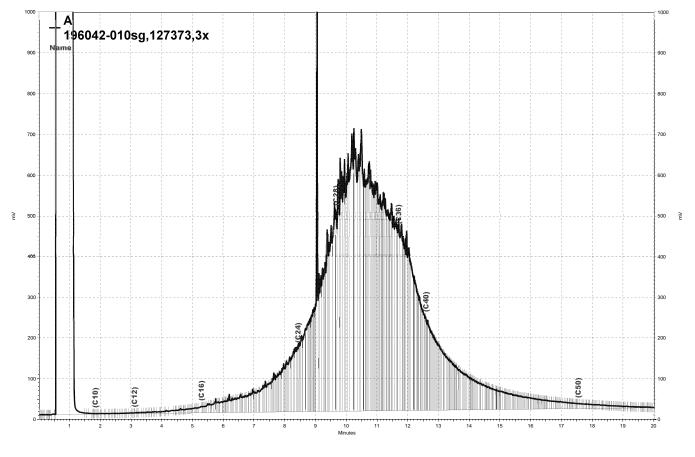
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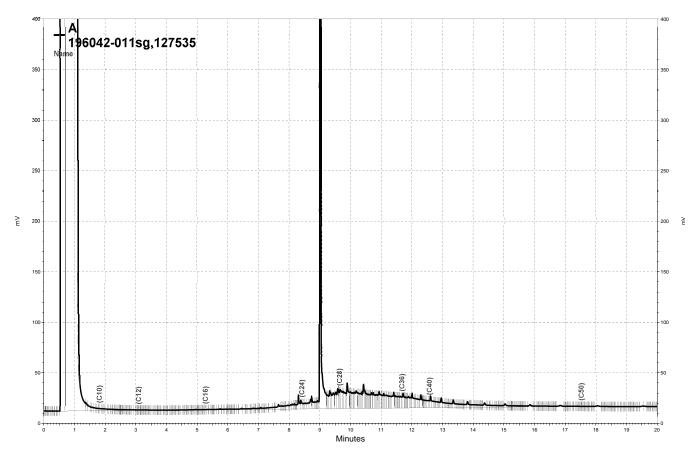
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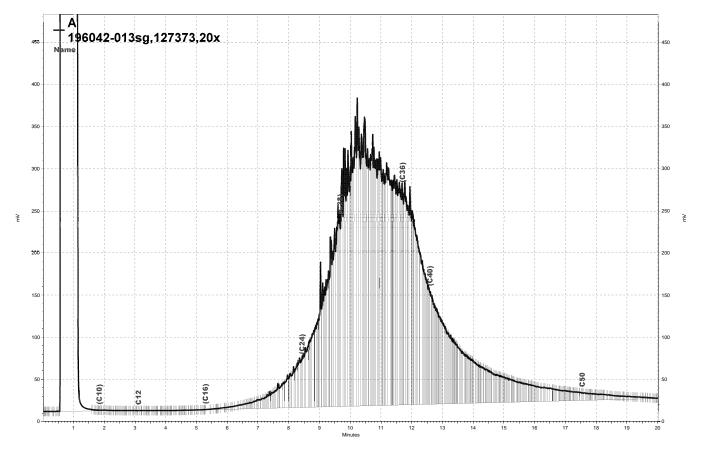
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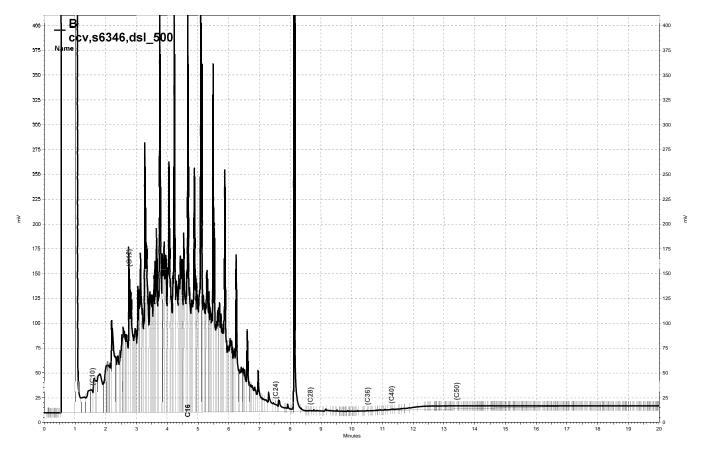
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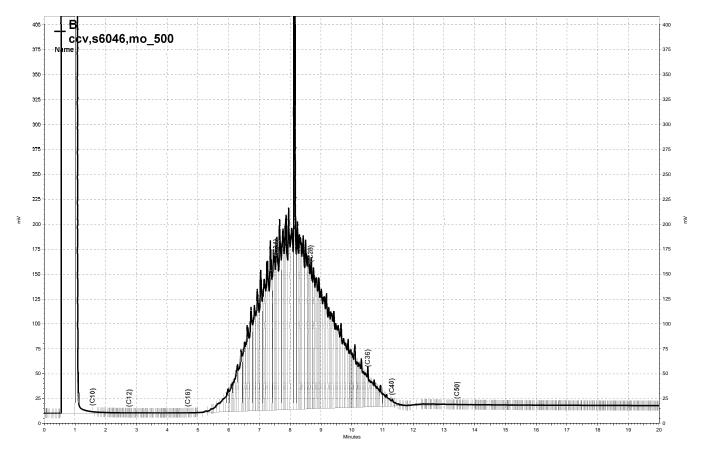


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Semivolatile Organics by GC/MS					
Lab #: Client: Project#:	196042 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 3550B EPA 8270C		
Field ID: Lab ID: Matrix: Units: Basis: Diln Fac:	B-1(A)-4.5 196042-005 Soil ug/Kg as received 1.000	Batcĥ#: Sampled: Received: Prepared: Analyzed:	127357 07/17/07 07/17/07 07/18/07 07/19/07		

Analyte	Result	RI.
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	660
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,600
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	66
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	66
Hexachlorocyclopentadiene	ND	660
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
	ND	330
2-Chloronaphthalene		
2-Nitroaniline	ND	660
Dimethylphthalate	ND	330
Acenaphthylene	ND	66
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	660
Acenaphthene	ND	66
2,4-Dinitrophenol	ND	660
4-Nitrophenol	ND	660
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	66
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	660
4,6-Dinitro-2-methylphenol	ND	660
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	660
Phenanthrene	ND	66
Anthracene	ND	66
Di-n-butylphthalate	ND	330
		2.24

ND= Not Detected RL= Reporting Limit Page 1 of 2



Semivolatile Organics by GC/MS					
Lab #: Client:	196042 LFR Levine Fricke	Location:	Hanson Radum EPA 3550B		
Project#:	001-09567-01	Prep: Analysis:	EPA 8270C		
Field ID:	B-1(A)-4.5	Batch#:	127357		
Lab ID:	196042-005	Sampled:	07/17/07		
Matrix:	Soil	Received:	07/17/07		
Units:	ug/Kg	Prepared:	07/18/07		
Basis: Diln Fac:	as received 1.000	Analyzed:	07/19/07		

Analyte	Result	RL
Fluoranthene	ND	66
Pyrene	ND	66
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	660
Benzo(a)anthracene	ND	66
Chrysene	ND	66
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	66
Benzo(k)fluoranthene	ND	66
Benzo(a)pyrene	ND	66
Indeno(1,2,3-cd)pyrene	ND	66
Dibenz(a,h)anthracene	ND	66
Benzo(g,h,i)perylene	ND	66
Surrogate	%REC Limit	
2-Fluorophenol	81 28-12	
Phenol-d5	81 30-12	
2,4,6-Tribromophenol	102 20-12	
Nitrobenzene-d5	80 39-12	
2-Fluorobiphenyl	81 44-12	
Terphenyl-d14	82 39-12	0



Semivolatile Organics by GC/MS						
Lab #:	196042	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 3550B			
Project#:	001-09567-01	Analysis:	EPA 8270C			
Field ID:	B-1(A)-9.5	Batch#:	127357			
Lab ID:	196042-006	Sampled:	07/17/07			
Matrix:	Soil	Received:	07/17/07			
Units:	ug/Kg	Prepared:	07/18/07			
Basis: Diln Fac:	as received 1.000	Analyzed:	07/19/07			

NH:trosodimethylamine ND 330 Phenol ND 330 bis[2-Chloroethyl]ether ND 330 2-Chlorophenol ND 330 1,4-Dichlorobenzene ND 330 1,4-Dichlorobenzene ND 330 1,2-Dichlorobenzene ND 330 4-Methylphenol ND 330 N-Nitroso-di-n-propylamine ND 330 Nitrobenzene ND 330 2,4-Dimethylphenol ND 330 2,4-Dirich	Analyte	Result	RL
Phenol ND 330 2-Chlorophenol ND 330 2-Chlorophenol ND 330 1.3-Dichlorobenzene ND 330 1.4-Dichlorobenzene ND 330 1.4-Dichlorobenzene ND 330 1.4-Dichlorobenzene ND 330 2-Metrylphenol ND 330 1.2-Dichlorobenzene ND 330 2-Metrylphenol ND 330 Heixachloroetham ND 330 Heixachloroetham ND 330 Heixachloroethoxylmeine ND 330 Isophorone ND 330 2-Alitophenol ND 330 2.4-Dichlorophenol ND <th></th> <th></th> <th></th>			
bis(2-chloroethyl)ether ND 330 2-Chlorophenol ND 330 1,4-Dichlorobenzene ND 330 1,4-Dichlorobenzene ND 330 1,2-Dichlorobenzene ND 330 Hexachlorobethane ND 330 Hexachlorobethane ND 330 2-Altrophenol ND 330 2-Altrophenol ND 330 2.4-Dintertylphenol ND 330 2.4-Dichlorophenol ND 330 2.4-Tirtchlorophenol ND 330 2.4.6-T			
2-Chlorophenol ND 330 1.3-Dichlorobenzene ND 330 1.4-Dichlorobenzene ND 330 2.4-Dichlorobenzene ND 330 1.2-Dichlorobenzene ND 330 2Methylphenol ND 330 1.4-Dichlorobenzene ND 330 2-Methylphenol ND 330 Hextroso-di-n-propylamine ND 330 Hitrobenzene ND 330 Sophorone ND 330 Isophorone ND 330 2-Altrophenol ND 330 2.4-Dichlorophenol ND 1.700 Benzoic acid ND 1.700 bis(2-Chloropethoxylmethane ND 330 2.4-Dichlorophenol ND 330 2.4-Dichlorophenol ND 330 2.4-Dichlorophenol ND 330 2.4-Dichlorophenol ND 330 2.4-Strichlorophenol ND 330 2.4-Strichlorophenol			
1,4-Dichlorobenzene ND 330 J.4-Dichlorobenzene ND 330 J.2-Dichlorobenzene ND 330 1,2-Dichlorobenzene ND 330 2-Methylphenol ND 330 Methylphenol ND 330 4-Methylphenol ND 330 Hexachloroethane ND 330 Isophorone ND 330 Z-Nitrobenzene ND 330 Isophorone ND 330 Z-Nitrobend ND 330 J.2-Lohnorobenzene ND 330 J.3.4 ND 330 J.3.5 ND 330 J.3.6 ND 330 J.3.7 ND 330 J.3.4 ND 330 J.4.5 Tichlorophenol </td <td></td> <td></td> <td></td>			
1.4-Dichlorobenzene ND 330 Benzyl alcohol ND 330 1.4-Dichlorobenzene ND 330 J-Methylphenol ND 330 Hexachlorobenzene ND 330 J-Methylphenol ND 330 Nitroso-di-n-propylamine ND 330 Nitrobenzene ND 330 Sophorone ND 330 Jsophorone ND 330 2.4-Dichlorobenzene ND 330 J.4-Dichlorobenzene ND 330 J.2.4-Trichlorobenzene ND 330 J.2.4-Trichlorobenzene ND 330 J.2.4-Trichlorobenzene ND 330 A-Chloro-almethylphenol ND 330 L2.4-Trichlorophenol ND 330 Z-4-Dichlorophenol ND 330 Z-4-Dichlorophenol ND 330 Z-4-Choro-alcotylphenol ND 330 Z-4-Choro-alcotylphenol ND 330 Z-4-Choro-alcotylphenol ND 330 Z-4-Soliricholorophenol </td <td></td> <td></td> <td></td>			
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3-NitroanilineND660AcenaphtheneND6602,4-DinitrophenolND6604-NitrophenolND3302,4-DinitrotolueneND330DiethylphthalateND330FluoreneND6604-Chlorophenyl-phenyletherND6604-NitroanilineND6604-NitrosodiphenylamineND660AzobenzeneND3304-Bromophenyl-phenyletherND3304-Bromophenyl-phenyletherND3304-Bromophenyl-phenyletherND3304-Bromophenyl-phenyletherND3304-Bromophenyl-phenyletherND330PentachlorobenzeneND660HexachlorobenzeneND660PhenanthreneND660AnthraceneND66			
AcenaphtheneND662,4-DinitrophenolND6604-NitrophenolND660DibenzofuranND3302,4-DinitrotolueneND330DiethylphthalateND330FluoreneND664-Chlorophenyl-phenyletherND6604,6-Dinitro-2-methylphenolND660N-NitrosodiphenylamineND330AzobenzeneND3304-Bromophenyl-phenyletherND3304-Bromophenyl-phenyletherND3304-Bromophenyl-phenyletherND330PentachlorophenolND660PhenanthreneND660AnthraceneND660AnthraceneND660AnthraceneND660AnthraceneND660AnthraceneND660AnthraceneND660AnthraceneND660AnthraceneND660AnthraceneND660AnthraceneND660AnthraceneND660AnthraceneND660AnthraceneND660AnthraceneND66AnthraceneND66			
2,4-DinitrophenolND6604-NitrophenolND660DibenzofuranND3302,4-DinitrotolueneND330DiethylphthalateND330FluoreneND664-Chlorophenyl-phenyletherND6604,6-Dinitro-2-methylphenolND660N-Nitrosodiphenyl-phenyletherND330AzobenzeneND3304-Bromophenyl-phenyletherND330PentachlorophenolND330ArbringND660A-hitrosodiphenyl-phenyletherND330AzobenzeneND330HexachlorophenolND660PhenanthreneND660AnthraceneND66			
4-NitrophenolND660DibenzofuranND3302,4-DinitrotolueneND330DiethylphthalateND330FluoreneND664-Chlorophenyl-phenyletherND6604.6-Dinitro-2-methylphenolND660N-NitrosodiphenylamineND330AzobenzeneND3304-Bromophenyl-phenyletherND330HexachlorobenzeneND330PentachlorophenolND660PhenanthreneND660AnthraceneND660			
DibenzofuranND3302,4-DinitrotolueneND330DiethylphthalateND330FluoreneND664-Chlorophenyl-phenyletherND6604-NitroanilineND6604,6-Dinitro-2-methylphenolND660N-NitrosodiphenylamineND330AzobenzeneND3304-Bromophenyl-phenyletherND330HexachlorobenzeneND330PentachlorophenolND660PhenanthreneND660AnthraceneND660			
2,4-DinitrotolueneND330DiethylphthalateND330FluoreneND664-Chlorophenyl-phenyletherND3304-NitroanilineND6604,6-Dinitro-2-methylphenolND660N-NitrosodiphenylamineND330AzobenzeneND3304-Bromophenyl-phenyletherND330HexachlorobenzeneND330PentachlorophenolND660PhenanthreneND660AnthraceneND660			
DiethylphthalateND330FluoreneND664-Chlorophenyl-phenyletherND3304-NitroanilineND6604,6-Dinitro-2-methylphenolND660N-NitrosodiphenylamineND330AzobenzeneND3304-Bromophenyl-phenyletherND330HexachlorobenzeneND330PentachlorophenolND660PhenanthreneND660AnthraceneND660			
FluoreneND664-Chlorophenyl-phenyletherND3304-NitroanilineND6604,6-Dinitro-2-methylphenolND660N-NitrosodiphenylamineND330AzobenzeneND3304-Bromophenyl-phenyletherND330HexachlorobenzeneND330PentachlorophenolND660PhenanthreneND660AnthraceneND66			
4-Chlorophenyl-phenyletherND3304-NitroanilineND6604,6-Dinitro-2-methylphenolND660N-NitrosodiphenylamineND330AzobenzeneND3304-Bromophenyl-phenyletherND330HexachlorobenzeneND330PentachlorophenolND660PhenanthreneND660AnthraceneND66			
4-NitroanilineND6604,6-Dinitro-2-methylphenolND660N-NitrosodiphenylamineND330AzobenzeneND3304-Bromophenyl-phenyletherND330HexachlorobenzeneND330PentachlorophenolND660PhenanthreneND66AnthraceneND66			
4,6-Dinitro-2-methylphenolND660N-NitrosodiphenylamineND330AzobenzeneND3304-Bromophenyl-phenyletherND330HexachlorobenzeneND330PentachlorophenolND660PhenanthreneND66AnthraceneND66			
N-NitrosodiphenylamineND330AzobenzeneND3304-Bromophenyl-phenyletherND330HexachlorobenzeneND330PentachlorophenolND660PhenanthreneND66AnthraceneND66			
AzobenzeneND3304-Bromophenyl-phenyletherND330HexachlorobenzeneND330PentachlorophenolND660PhenanthreneND66AnthraceneND66			
4-Bromophenyl-phenyletherND330HexachlorobenzeneND330PentachlorophenolND660PhenanthreneND66AnthraceneND66			
HexachlorobenzeneND330PentachlorophenolND660PhenanthreneND66AnthraceneND66			
PentachlorophenolND660PhenanthreneND66AnthraceneND66			
PhenanthreneND66AnthraceneND66			
Anthracene ND 66			
	Di-n-butylphthalate		330

ND= Not Detected RL= Reporting Limit Page 1 of 2



	Semivolatile Organics by GC/MS			
Lab #: Client:	196042 LFR Levine Fricke	Location:	Hanson Radum EPA 3550B	
Project#:	001-09567-01	Prep: Analysis:	EPA 3350B EPA 8270C	
Field ID:	B-1(A)-9.5	Batch#:	127357	
Lab ID:	196042-006	Sampled:	07/17/07	
Matrix:	Soil	Received:	07/17/07	
Units:	ug/Kg	Prepared:	07/18/07	
Basis: Diln Fac:	as received 1.000	Analyzed:	07/19/07	

Analyte	Result	RL	
Fluoranthene	ND	66	
Pyrene	ND	66	
Butylbenzylphthalate	ND	330	
3,3 [°] -Dichlorobenzidine	ND	660	
Benzo(a)anthracene	ND	66	
Chrysene	ND	66	
bis(2-Ethylhexyl)phthalate	ND	330	
Di-n-octylphthalate	ND	330	
Benzo(b)fluoranthene	ND	66	
Benzo(k)fluoranthene	ND	66	
Benzo(a)pyrene	ND	66	
Indeno(1,2,3-cd)pyrene	ND	66	
Dibenz(a,h)anthracene	ND	66	
Benzo(g,h,i)perylene	ND	66	
Gummagaha	%REC Limits		
Surrogate 2-Fluorophenol	78 28-120		
Phenol-d5	76 28-120		
2,4,6-Tribromophenol	104 $20-120$		
Nitrobenzene-d5	74 $39-120$		
2-Fluorobiphenyl	80 44-120		
Terphenyl-d14	82 39-120		
Terbuenta-ara	02 39-120		

ND= Not Detected RL= Reporting Limit Page 2 of 2



	Semivolat	ile Organics by G	C/MS	
Lab #:	196042	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8270C	
Type:	BLANK	Diln Fac:	1.000	
Type: Lab ID:	QC396734	Batch#:	127357	
Matrix:	Miscell.	Prepared:	07/18/07	
Units:	ug/Kg	Analyzed:	07/19/07	
Basis:	as received	-		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND ND	330
Hexachloroethane	ND ND	330
Nitrobenzene	ND ND	330
		330
Isophorone	ND	
2-Nitrophenol	ND	660
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,600
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	66
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	66
Hexachlorocyclopentadiene	ND	660
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	660
Dimethylphthalate	ND	330
Acenaphthylene	ND	66
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	660
Acenaphthene	ND	66
2,4-Dinitrophenol	ND	660
4-Nitrophenol	ND	660
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	66
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	660
4,6-Dinitro-2-methylphenol	ND	660
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	660
Phenanthrene	ND	66
Anthracene	ND	66
Di-n-butylphthalate	ND	330

ND= Not Detected RL= Reporting Limit



	Semivolat	ile Organics by G	C/MS	
Lab #:	196042	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8270C	
Type: Lab ID:	BLANK	Diln Fac:	1.000	
Lab ID:	QC396734	Batch#:	127357	
Matrix:	Miscell.	Prepared:	07/18/07	
Units:	ug/Kg	Analyzed:	07/19/07	
Basis:	as received	_		

Analyte]	Result	RL	
Fluoranthene	ND		66	
Pyrene	ND		66	
Butylbenzylphthalate	ND		330	
3,3'-Dichlorobenzidine	ND		660	
Benzo(a)anthracene	ND		66	
Chrysene	ND		66	
bis(2-Ethylhexyl)phthalate	ND		330	
Di-n-octylphthalate	ND		330	
Benzo(b)fluoranthene	ND		66	
Benzo(k)fluoranthene	ND		66	
Benzo(a)pyrene	ND		66	
Indeno(1,2,3-cd)pyrene	ND		66	
Dibenz(a,h)anthracene	ND		66	
Benzo(g,h,i)perylene	ND		66	
Currogata	%REC	Limits		
Surrogate 2-Fluorophenol	83	28-120		
Phenol-d5	81	30-120		
	o⊥ 92			
2,4,6-Tribromophenol Nitrobenzene-d5		20-120 39-120		
	82			
2-Fluorobiphenyl	86	44-120		
Terphenyl-d14	87	39-120		

ND= Not Detected RL= Reporting Limit Page 2 of 2



	Semivolatile Organics by GC/MS				
Lab #:	196042	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3550B		
Project#:	001-09567-01	Analysis:	EPA 8270C		
Type:	LCS	Diln Fac:	1.000		
Lab ID:	QC396735	Batch#:	127357		
Matrix:	Miscell.	Prepared:	07/18/07		
Units:	ug/Kg	Analyzed:	07/19/07		
Basis:	as received				

Analyte	Spiked	Result	%REC	Limits
Phenol	2,644	2,101	79	40-120
2-Chlorophenol	2,644	2,129	81	40-120
1,4-Dichlorobenzene	1,322	1,246	94	45-120
N-Nitroso-di-n-propylamine	1,322	981.1	74	34-120
1,2,4-Trichlorobenzene	1,322	1,239	94	45-120
4-Chloro-3-methylphenol	2,644	2,347	89	45-120
Acenaphthene	1,322	1,094	83	42-120
4-Nitrophenol	2,644	2,012	76	31-120
2,4-Dinitrotoluene	1,322	1,265	96	41-120
Pentachlorophenol	2,644	2,140	81	21-120
Pyrene	1,322	1,153	87	41-120

Surrogate	%REC	Limits	
2-Fluorophenol	80	28-120	
Phenol-d5	79	30-120	
2,4,6-Tribromophenol	110	20-120	
Nitrobenzene-d5	81	39-120	
2-Fluorobiphenyl	82	44-120	
Terphenyl-d14	88	39-120	



Semivolatile Organics by GC/MS					
Lab #:	196042	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3550B		
Project#:	001-09567-01	Analysis:	EPA 8270C		
Field ID:	ZZZZZZZZZ	Batch#:	127357		
MSS Lab ID:	195937-001	Sampled:	07/10/07		
Matrix:	Miscell.	Received:	07/12/07		
Units:	ug/Kg	Prepared:	07/18/07		
Basis:	as received	Analyzed:	07/26/07		
Diln Fac:	1.000	-			

Type: MS		Lab ID:	QC396736		
Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<68.44	2,652	2,117	80	38-120
2-Chlorophenol	<71.23	2,652	2,095	79	38-120
1,4-Dichlorobenzene	<17.01	1,326	1,158	87	49-120
N-Nitroso-di-n-propylamine	<14.07	1,326	1,022	77	43-120
1,2,4-Trichlorobenzene	<15.20	1,326	1,176	89	47-120
4-Chloro-3-methylphenol	<70.50	2,652	2,312	87	44-120
Acenaphthene	<15.00	1,326	1,085	82	48-120
4-Nitrophenol	<84.53	2,652	2,089	79	30-120
2,4-Dinitrotoluene	<15.33	1,326	1,192	90	41-120
Pentachlorophenol	<67.07	2,652	1,866	70	13-120
Pyrene	<14.99	1,326	1,126	85	42-120
Surrogate	%REC Limits				
2-Fluorophenol	77 28-120				
Phenol-d5	81 30-120				
2,4,6-Tribromophenol	109 20-120				
Nitrobenzene-d5	77 39-120				
2-Fluorobiphenyl	80 44-120				
Terphenyl-d14	84 39-120				

Type: MSD	Lal	o ID: QC39	6737		
Analyte	Spiked	Result	%REC		Lim
Phenol 2-Chlorophenol 1,4-Dichlorobenzene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene Pentachlorophenol Pyrene	2,650 2,650 1,325 1,325 1,325 2,650 1,325 2,650 1,325 2,650 1,325	2,089 2,068 1,158 992.3 1,206 2,338 1,077 2,080 1,190 1,976 1,143	79 78 87 91 88 81 78 90 75 86	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	26 28 27 28 26 28 29 38 29 38 25 55 30
Surrogate 2-Fluorophenol Phenol-d5 2,4,6-Tribromophenol Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	%REC Limits 75 28-120 80 30-120 110 20-120 79 39-120 80 44-120 84 39-120				



	:	Polychlo	rinated	Biphenyls (PC	Bs)
Lab #:	196042			Location:	Hanson Radum
Client:	LFR Levine			Prep:	EPA 3550B
Project#:	001-09567-0	1		Analysis:	EPA 8082
Matrix:	Soil			Sampled:	07/17/07
Units:	ug/Kg			Received:	07/17/07
Basis:	as received			Prepared:	07/18/07
Diln Fac:	1.000			Analyzed:	07/20/07
Batch#:	127391			-	
Field ID:	B-1(A)-4.5			Lab ID:	196042-005
Type:	SAMPLE			Cleanup Method:	EPA 3665A
	alyte		Result	RL	A
Aroclor-1016		ND		9.	4
Aroclor-1221		ND		19	
Aroclor-1232		ND		9.	
Aroclor-1242		ND		9.	
Aroclor-1248		ND		9.	
Aroclor-1254		ND		9.	
Aroclor-1260		ND		9.	4
		.			
	rogate	%REC	Limits		
TCMX	-	110	63-141		
Decachlorobiph	lenyl	104	50-158		
Field ID:	B-1(A)-9.5			Lab ID:	196042-006
Type:	SAMPLE			Cleanup Method:	EPA 3665A
	-		Result	_	EPA 3665A
Ana	alyte		Result	RL	
Ana Aroclor-1016	-	ND	Result	- RL 9.	
Aroclor-1016 Aroclor-1221	-	ND ND	Result		5
Aroclor-1016 Aroclor-1221 Aroclor-1232	-	ND ND ND	Result		5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242	-	ND ND ND ND	Result	RL 9. 19 9. 9.	5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248	-	ND ND ND ND ND	Result	RL 9. 19 9. 9. 9. 9.	5 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254	-	ND ND ND ND ND	Result	RL 9. 19 9. 9. 9. 9. 9.	5 5 5 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248	-	ND ND ND ND ND	Result	RL 9. 19 9. 9. 9. 9.	5 5 5 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	-	ND ND ND ND ND	Result Limits	RL 9. 19 9. 9. 9. 9. 9.	5 5 5 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	alyte	ND ND ND ND ND ND	Limits 63-141	RL 9. 19 9. 9. 9. 9. 9.	5 5 5 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	alyte	ND ND ND ND ND ND	Limits	RL 9. 19 9. 9. 9. 9. 9.	5 5 5 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	alyte	ND ND ND ND ND ND ND 28REC 104	Limits 63-141	RL 9. 19 9. 9. 9. 9. 9.	5 5 5 5 5 5 5
Anoclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260 Surr TCMX Decachlorobiph	alyte cogate nenyl	ND ND ND ND ND ND ND 28REC 104	Limits 63-141	RL 9. 19 9. 9. 9. 9. 9. 9.	5 5 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260 Surr TCMX Decachlorobiph	alyte cogate nenyl BLANK	ND ND ND ND ND ND ND 28REC 104	Limits 63-141	RL 9. 19 9. 9. 9. 9. 9.	5 5 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1254 Aroclor-1260	alyte cogate nenyl	ND ND ND ND ND ND ND 28REC 104	Limits 63-141	RL 9. 19 9. 9. 9. 9. 9. 9.	5 5 5 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260 Surr TCMX Decachlorobiph Type: Lab ID:	eogate nenyl BLANK QC396893	ND ND ND ND ND ND %REC 104 96	Limits 63-141 50-158	RL 9. 19 9. 9. 9. 9. 9. 9. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	5 5 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260 Surr TCMX Decachlorobiph Type: Lab ID:	alyte cogate nenyl BLANK	ND ND ND ND ND ND %REC 104 96	Limits 63-141	RL 9. 19 9.	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1254 Aroclor-1254 Aroclor-1260 Surr TCMX Decachlorobiph Type: Lab ID: Ana Aroclor-1016	eogate nenyl BLANK QC396893	ND ND ND ND ND ND %REC 104 96	Limits 63-141 50-158	RL 9. 19 9.	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260 TCMX Decachlorobiph Type: Lab ID: Aroclor-1016 Aroclor-1221	eogate nenyl BLANK QC396893	ND ND ND ND ND ND ND 104 96	Limits 63-141 50-158	RL 9. 19 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 19. 19.	5 5 5 5 EPA 3665A 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260 TCMX Decachlorobiph Type: Lab ID: Aroclor-1016 Aroclor-1221 Aroclor-1232	eogate nenyl BLANK QC396893	ND ND ND ND ND ND ND ND 96	Limits 63-141 50-158	RL 9. 19 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 19. 9. 9. 19. 9. 9. 19. 9. 19. 9.	5 5 5 5 5 5 5 5
Anacher Anacher Anacher Anoclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260 Surr TCMX Decachlorobiph Type: Lab ID: Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242	eogate nenyl BLANK QC396893	ND ND ND ND ND ND ND 104 96	Limits 63-141 50-158	RL 9. 19 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 19 9. 19 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	5 5 5 5 5 5 5 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260 TCMX Decachlorobiph Type: Lab ID: Aroclor-1016 Aroclor-1211 Aroclor-1232 Aroclor-1242 Aroclor-1248	eogate nenyl BLANK QC396893	ND ND ND ND ND ND ND 104 96	Limits 63-141 50-158	RL 9. 19 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 19 9. 19 9. 19 9.	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260 TCMX Decachlorobiph Type: Lab ID: Aroclor-1016 Aroclor-1232 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254	eogate nenyl BLANK QC396893	ND ND ND ND ND ND ND ND %REC 104 96	Limits 63-141 50-158	RL 9. 19 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 19 9. 19 9. 19 9. 19 9. 19 9. 19 9.	5 5 5 EPA 3665A 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260 TCMX Decachlorobiph Type: Lab ID: Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248	eogate nenyl BLANK QC396893	ND ND ND ND ND ND ND 104 96	Limits 63-141 50-158	RL 9. 19 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 19 9. 19 9. 19 9.	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260 Type: Lab ID: Aroclor-1016 Aroclor-1231 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	alyte cogate henyl BLANK QC396893 alyte	ND ND ND ND ND ND ND ND %REC 104 96	Limits 63-141 50-158 Result	RL 9. 19 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 19 9. 19 9. 19 9. 19 9. 19 9. 19 9.	5 5 5 EPA 3665A 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260 Type: Lab ID: Aroclor-1016 Aroclor-1231 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	eogate nenyl BLANK QC396893	ND ND ND ND ND ND ND \$REC 104 96	Limits 63-141 50-158	RL 9. 19 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 19 9. 19 9. 19 9. 19 9. 19 9. 19 9.	5 5 5 EPA 3665A 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260 TCMX Decachlorobiph Type: Lab ID: Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1254	nenyl BLANK QC396893	ND ND ND ND ND ND ND \$REC 104 96	Limits 63-141 50-158 Result	RL 9. 19 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 19 9. 19 9. 19 9. 19 9. 19 9. 19 9.	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260 TCMX Decachlorobiph Type: Lab ID: Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	nenyl BLANK QC396893	ND ND ND ND ND ND ND 96 104 96 104 96 104 96 ND ND ND ND ND ND ND ND ND ND ND ND ND	Limits 63-141 50-158 Result Limits 63-141	RL 9. 19 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 19 9. 19 9. 19 9. 19 9. 19 9. 19 9.	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

*= Value outside of QC limits; see narrative ND= Not Detected RL= Reporting Limit Page 1 of 1



	Polychlorinated	Biphenyls (PC	Bs)
Lab #:	196042	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 3550B
Project#:	001-09567-01	Analysis:	EPA 8082
Туре:	LCS	Diln Fac:	1.000
Lab ID:	QC396928	Batch#:	127391
Matrix:	Soil	Prepared:	07/18/07
Units:	ug/Kg	Analyzed:	07/19/07
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1232	165.0	155.6	94	68-138

Surrogate	%REC	Limits
TCMX	87	63-141
Decachlorobiphenyl	78	50-158



	Polychlorinated	Biphenyls (PC	Bs)
Lab #:	196042	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 3550B
Project#:	001-09567-01	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZ	Batch#:	127391
MSS Lab ID:	196032-001	Sampled:	07/16/07
Matrix:	Soil	Received:	07/17/07
Units:	ug/Kg	Prepared:	07/18/07
Basis:	as received	Analyzed:	07/19/07
Diln Fac:	1.000		

Type: MS Lab ID:

QC396929

Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1232	<1.324	165.0	169.1	103	72-140

Surrogate	%REC	Limits
TCMX	129	63-141
Decachlorobiphenyl	105	50-158

Type: Lab ID:	MSD QC396930			Cleanup Method: EPA 3	665A			
	Analyte		Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-123	32		165.9	173.4	104	72-140	2	27
S	Surrogate	%REC	Limits					
TCMX		109	63-141					
Decachlorob	oiphenyl	83	50-158					



	Califor	rnia Title 26 Metals	5	
Lab #:	196042	Project#:	001-09567-01	
Client:	LFR Levine Fricke	Location:	Hanson Radum	
Field ID:	B-1(A)-4.5	Diln Fac:	1.000	
Lab ID:	196042-005	Sampled:	07/17/07	
Matrix:	Soil	Received:	07/17/07	
Units:	mg/Kg	Analyzed:	07/19/07	
Basis:	as received			
Analyte	Result	RL Batch# Prepare	d Prep	Analysis

Analyte	Result	RL	Batch# Prepared Prep Analysis
Antimony	ND	0.50	127397 07/18/07 EPA 3050B EPA 6010B
Arsenic	4.2	0.25	127397 07/18/07 EPA 3050B EPA 6010B
Barium	160	0.25	127397 07/18/07 EPA 3050B EPA 6010B
Beryllium	0.24	0.10	127397 07/18/07 EPA 3050B EPA 6010B
Cadmium	ND	0.25	127397 07/18/07 EPA 3050B EPA 6010B
Chromium	40	0.25	127397 07/18/07 EPA 3050B EPA 6010B
Cobalt	10	0.25	127397 07/18/07 EPA 3050B EPA 6010B
Copper	28	0.25	127397 07/18/07 EPA 3050B EPA 6010B
Lead	8.8	0.15	127397 07/18/07 EPA 3050B EPA 6010B
Mercury	0.026	0.020	127412 07/19/07 METHOD EPA 7471A
Molybdenum	0.59	0.25	127397 07/18/07 EPA 3050B EPA 6010B
Nickel	60	0.25	127397 07/18/07 EPA 3050B EPA 6010B
Selenium	ND	0.50	127397 07/18/07 EPA 3050B EPA 6010B
Silver	ND	0.25	127397 07/18/07 EPA 3050B EPA 6010B
Thallium	ND	0.50	127397 07/18/07 EPA 3050B EPA 6010B
Vanadium	23	0.25	127397 07/18/07 EPA 3050B EPA 6010B
Zinc	51	1.0	127397 07/18/07 EPA 3050B EPA 6010B



California Title 26 Metals					
Lab #:	196042		Project#:	001-09567-01	
Client:	LFR Levine Fricke		Location:	Hanson Radum	
Field ID:	B-1(A)-9.5		Diln Fac:	1.000	
Lab ID:	196042-006		Sampled:	07/17/07	
Matrix:	Soil		Received:	07/17/07	
Units:	mg/Kg		Analyzed:	07/19/07	
Basis:	as received				
Analyte	Result	RL	Batch# Prepare	ed Prep	Analysis
	ND		100200 00/10/0		

Analyte	Result	RL	Batch# Prepared Pre	ep Analysis
Antimony	ND	0.50	127397 07/18/07 EPA 3050)B EPA 6010B
Arsenic	4.6	0.25	127397 07/18/07 EPA 3050)B EPA 6010B
Barium	160	0.25	127397 07/18/07 EPA 3050)B EPA 6010B
Beryllium	0.32	0.10	127397 07/18/07 EPA 3050)B EPA 6010B
Cadmium	ND	0.25	127397 07/18/07 EPA 3050)B EPA 6010B
Chromium	56	0.25	127397 07/18/07 EPA 3050)B EPA 6010B
Cobalt	13	0.25	127397 07/18/07 EPA 3050)B EPA 6010B
Copper	26	0.25	127397 07/18/07 EPA 3050)B EPA 6010B
Lead	8.0	0.15	127397 07/18/07 EPA 3050)B EPA 6010B
Mercury	0.023	0.020	127412 07/19/07 METHOD	EPA 7471A
Molybdenum	0.41	0.25	127397 07/18/07 EPA 3050)B EPA 6010B
Nickel	85	0.25	127397 07/18/07 EPA 3050)B EPA 6010B
Selenium	ND	0.50	127397 07/18/07 EPA 3050)B EPA 6010B
Silver	ND	0.25	127397 07/18/07 EPA 3050)B EPA 6010B
Thallium	ND	0.50	127397 07/18/07 EPA 3050)B EPA 6010B
Vanadium	29	0.25	127397 07/18/07 EPA 3050	DB EPA 6010B
Zinc	54	1.0	127397 07/18/07 EPA 3050	DB EPA 6010B



	Californ	nia Title 26 Meta	als	
Lab #:	196042	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3050B	
Project#:	001-09567-01	Analysis:	EPA 6010B	
Type:	BLANK	Diln Fac:	1.000	
Lab ID:	QC396917	Batch#:	127397	
Matrix:	Soil	Prepared:	07/18/07	
Units:	mg/Kg	Analyzed:	07/19/07	
Basis:	as received			

Analyte	Result	RL	
Antimony	ND	0.50	
Arsenic	ND	0.25	
Barium	ND	0.25	
Beryllium	ND	0.10	
Cadmium	ND	0.25	
Chromium	ND	0.25	
Cobalt	ND	0.25	
Copper	ND	0.25	
Lead	ND	0.15	
Molybdenum	ND	0.25	
Nickel	ND	0.25	
Selenium	ND	0.50	
Silver	ND	0.25	
Thallium	ND	0.50	
Vanadium	ND	0.25	
Zinc	ND	1.0	

ND= Not Detected RL= Reporting Limit Page 1 of 1



	Californ	ia Title 26 Meta	ls	
Lab #: Client: Project#:	196042 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 3050B EPA 6010B	
Matrix: Units: Basis: Diln Fac:	Soil mg/Kg as received 1.000	Batch#: Prepared: Analyzed:	127397 07/18/07 07/19/07	

Type: BS	Lab ID:	QC3969	18	
Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	98.24	98	80-120
Arsenic	50.00	49.44	99	80-120
Barium	100.0	99.57	100	80-120
Beryllium	2.500	2.589	104	80-120
Cadmium	10.00	10.02	100	80-120
Chromium	100.0	96.33	96	80-120
Cobalt	25.00	23.60	94	80-120
Copper	12.50	11.92	95	80-120
Lead	100.0	95.61	96	80-120
Molybdenum	20.00	20.26	101	80-120
Nickel	25.00	23.73	95	80-120
Selenium	50.00	49.54	99	80-120
Silver	10.00	9.388	94	80-120
Thallium	50.00	49.69	99	80-120
Vanadium	25.00	24.33	97	80-120
Zinc	25.00	24.51	98	80-120

Type:	BSD	Lab ID:	QC396	919			
	Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony		100.0	100.1	100	80-120	2	20
Arsenic		50.00	50.29	101	80-120	2	20
Barium		100.0	100.8	101	80-120	1	20
Beryllium		2.500	2.647	106	80-120	2	20
Cadmium		10.00	10.32	103	80-120	3	20
Chromium		100.0	99.28	99	80-120	3	20
Cobalt		25.00	24.33	97	80-120	3	20
Copper		12.50	12.26	98	80-120	3	20
Lead		100.0	98.65	99	80-120	3	20
Molybdenum		20.00	20.54	103	80-120	1	20
Nickel		25.00	24.51	98	80-120	3	20
Selenium		50.00	50.46	101	80-120	2	20
Silver		10.00	9.690	97	80-120	3	20
Thallium		50.00	50.80	102	80-120	2	20
Vanadium		25.00	25.06	100	80-120	3	20
Zinc		25.00	25.27	101	80-120	3	20



	Californ	nia Title 26 Metal	ls	
Lab #:	196042	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3050B	
Project#:	001-09567-01	Analysis:	EPA 6010B	
Field ID:	ZZZZZZZZZ	Batch#:	127397	
MSS Lab ID:	196050-001	Sampled:	07/18/07	
Matrix:	Soil	Received:	07/18/07	
Units:	mg/Kg	Prepared:	07/18/07	
Basis:	as received	Analyzed:	07/19/07	
Diln Fac:	1.000	-		

Туре: М	S	Lab ID:	QC396920		
Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.7560	93.46	60.48	64	1-129
Arsenic	3.191	46.73	48.89	98	72-120
Barium	47.75	93.46	135.5	94	49-138
Beryllium	0.1303	2.336	2.534	103	80-120
Cadmium	0.02568	9.346	9.094	97	72-120
Chromium	20.29	93.46	107.2	93	63-122
Cobalt	5.280	23.36	26.88	92	61-120
Copper	5.751	11.68	18.23	107	59-137
Lead	2.153	93.46	86.53	90	55-122
Molybdenum	0.7592	18.69	19.19	99	66-120
Nickel	26.09	23.36	48.75	97	45-139
Selenium	<0.07143	46.73	45.82	98	73-120
Silver	<0.01668	9.346	8.968	96	53-120
Thallium	<0.03151	46.73	43.46	93	64-120
Vanadium	25.51	23.36	49.28	102	55-139
Zinc	19.22	23.36	42.33	99	49-140

Type: MSD	Lab ID:	QC396	921			
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	99.01	61.81	62	1-129	4	23
Arsenic	49.50	50.13	95	72-120	3	20
Barium	99.01	151.1	104	49-138	7	23
Beryllium	2.475	2.632	101	80-120	2	20
Cadmium	9.901	9.524	96	72-120	1	20
Chromium	99.01	110.5	91	63-122	2	20
Cobalt	24.75	27.88	91	61-120	1	23
Copper	12.38	17.81	97	59-137	б	20
Lead	99.01	89.18	88	55-122	3	26
Molybdenum	19.80	19.38	94	66-120	5	20
Nickel	24.75	49.77	96	45-139	1	26
Selenium	49.50	46.95	95	73-120	3	20
Silver	9.901	9.437	95	53-120	1	22
Thallium	49.50	44.72	90	64-120	3	20
Vanadium	24.75	51.42	105	55-139	1	20
Zinc	24.75	43.22	97	49-140	1	23



	Californ	nia Title 26 Meta	ls	
Lab #:	196042	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	METHOD	
Project#:	001-09567-01	Analysis:	EPA 7471A	
Analyte:	Mercury	Basis:	as received	
Type:	BLANK	Diln Fac:	1.000	
Lab ID:	QC396975	Batch#:	127412	
Matrix:	Soil	Prepared:	07/19/07	
Units:	mg/Kg	Analyzed:	07/19/07	

Result	RL	
ND	0.020	

ND= Not Detected RL= Reporting Limit Page 1 of 1



	Californ	nia Title 26 Meta	ls	
Lab #:	196042	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	METHOD	
Project#:	001-09567-01	Analysis:	EPA 7471A	
Analyte:	Mercury	Diln Fac:	1.000	
Matrix:	Soil	Batch#:	127412	
Units:	mg/Kg	Prepared:	07/19/07	
Basis:	as received	Analyzed:	07/19/07	

Туре	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC396976	0.5000	0.4310	86	80-120		
BSD	QC396977	0.5000	0.4600	92	80-120	7	20



QC396980

MSD

	Califor	nia Title 26 Me	tals				
Lab #:	196042	Location:	Hanso	n Radum			
Client:	LFR Levine Fricke	Prep:	METHO	D			
Project#:	001-09567-01	Analysis:	EPA 7	471A			
Analyte:	Mercury	Diln Fac:	1.000				
Field ID:	ZZZZZZZZZ	Batch#:	12741	2			
MSS Lab ID:	195907-001	Sampled:	07/11	/07			
Matrix:	Soil	Received:	07/11	/07			
Units:	mg/Kg	Prepared:	07/19	/07			
Basis:	as received	Analyzed:	07/19	/07			
Type Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS QC396979	0.04151	0.4310	0.4431	93	67-143		

0.4902

0.5441

103

23

67-143 9



|--|

<u>Sample ID</u> B-1(A)-GGW	<u>Lab ID</u> 196066-001
EB-35(C)-2.5	196066-002
EB-35(C)-5.5	196066-003
EB-35(C)-10.5	196066-004
EB-35(D)-5.5	196066-005
EB-35(D)-9.5	196066-006
SS-31(A)-5.5	196066-007
SS-31(A)-10.5	196066-008
SS-31(A)-15.5	196066-009
SS-31(A)-20.5	196066-010
SS-31(A)-25.5	196066-011
SS-31(A)-30.5	196066-012

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: Project Manager

Signature:

Operations Manager

Date: 07/31/2007

Date: 07/31/2007

NELAP # 01107CA

Page 1 of ____



CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received:

196066 LFR Levine Fricke 001-09567-01 Hanson Radum 07/19/07 07/19/07

This hardcopy data package contains sample and QC results for ten soil samples and one water sample, requested for the above referenced project on 07/19/07. The samples were received cold and intact. All data were e-mailed to Katrin Schliewen on 07/26/07.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Water:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:

High surrogate recovery was observed for hexacosane in EB-35(D)-9.5 (lab # 196066-006); no target analytes were detected in the sample. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Water:

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Soil:

No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):

No analytical problems were encountered.

Pesticides (EPA 8081A):

Responses exceeding the instrument's linear range were observed for decachlorobiphenyl in the MS/MSD for batch 127426; affected data was qualified with "b". High surrogate recoveries were observed for decachlorobiphenyl in the MS/MSD for batch 127426; the corresponding TCMX surrogate recoveries were within limits, and the parent sample was not a project sample. No other analytical problems were encountered.

Polychlorinated Biphenyls (PCBs) (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

No analytical problems were encountered.



		Total	Volatil	.e Hydrocar	bons	
Lab #:	196066			Location:	Hanson Radum	1
Client:	LFR Levine Fr	icke		Prep:	EPA 5030B	
Project#:	001-09567-01			Analysis:	EPA 8015B	
Matrix:	Soil			Batch#:	127425	
Units: Basis:	mg/Kg as received			Sampled: Received:	07/18/07	
Diln Fac:	1.000			Analyzed:	07/19/07 07/19/07	
	1.000			mary 2ca	0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Field ID: Type:	SS-31(A)-5.5 SAMPLE			Lab ID:	196066-007	
	Analyte		Result		RL	
Gasoline (C7-C12	NE			1.0	
	Surrogate		Limits			
	toluene (FID)	93	70-132			
Bromotluoi	robenzene (FID)	102	66-138			
Field ID:	SS-31(A)-10.5			Lab ID:	196066-008	
Type:	SAMPLE					
	Amo lasto		D1+			
					DT	
Gasoline (Analyte		Result		RL 0 94	
Gasoline (C7-C12	NE			RL 0.94	
	C7-C12 Surrogate	ND				
Trifluorot	27-C12 Surrogate coluene (FID)	ND)			
Trifluorot	C7-C12 Surrogate	ND %REC	Limits			
Trifluorot Bromofluor	Surrogate coluene (FID) robenzene (FID)	ND %REC 95	Limits 70-132	Lab ID:	0.94	
Trifluorot	Surrogate coluene (FID) robenzene (FID)	ND %REC 95	Limits 70-132	Lab ID:		
Trifluorot Bromofluor Field ID:	SS-31(A)-15.5 SAMPLE	ND %REC 95 104	Limits 70-132 66-138	Lab ID:	0.94 196066-009	
Trifluorot Bromofluor Field ID: Type:	Surrogate toluene (FID) robenzene (FID) SS-31(A)-15.5 SAMPLE Analyte	ND %REC 95 104	Limits 70-132 66-138 Result	Lab ID:	0.94 196066-009 RL	
Trifluorot Bromofluor Field ID:	Surrogate toluene (FID) robenzene (FID) SS-31(A)-15.5 SAMPLE Analyte	ND %REC 95 104	Limits 70-132 66-138 Result	Lab ID:	0.94 196066-009	
Trifluorot Bromofluor Field ID: Type:	Surrogate toluene (FID) robenzene (FID) SS-31(A)-15.5 SAMPLE Analyte C7-C12	NE 8 REC 95 104 NE	Limits 70-132 66-138 Result	Lab ID:	0.94 196066-009 RL	
Trifluorot Bromofluor Field ID: Type: Gasoline (SS-31(A)-15.5 SAMPLE Analyte Surrogate	NE 8 REC 95 104 NE 8REC	Limits 70-132 66-138 Result Description Limits	Lab ID:	0.94 196066-009 RL	
Trifluorot Bromofluon Field ID: Type: Gasoline (Trifluorot	27-C12 Surrogate coluene (FID) robenzene (FID) SS-31(A)-15.5 SAMPLE Analyte C7-C12 Surrogate coluene (FID)	NE 95 104 NE %REC 99	Limits 70-132 66-138 Result D Limits 70-132	Lab ID:	0.94 196066-009 RL	
Trifluorot Bromofluor Field ID: Type: Gasoline (Trifluorot Bromofluor Field ID:	SS-31(A)-15.5 SAMPLE Analyte Surrogate	NE 8 REC 95 104 NE 8REC	Limits 70-132 66-138 Result Description Limits	Lab ID:	0.94 196066-009 RL 1.1	
Trifluorot Bromofluor Field ID: Type: Gasoline (Trifluorot Bromofluor	SS-31(A)-15.5 SAMPLE Analyte Coluene (FID) SS-31(A)-15.5 SAMPLE Analyte C7-C12 Surrogate toluene (FID) robenzene (FID) SS-31(A)-20.5	NE 95 104 NE %REC 99	Limits 70-132 66-138 Result D Limits 70-132		0.94 196066-009 RL 1.1	
Trifluorot Bromofluor Field ID: Type: Gasoline (Trifluorot Bromofluor Field ID: Type:	27-C12 Surrogate coluene (FID) robenzene (FID) SS-31(A)-15.5 SAMPLE Analyte C7-C12 Surrogate coluene (FID) robenzene (FID) SS-31(A)-20.5 SAMPLE Analyte	NE 95 104 NE %REC 99 107	Limits 70-132 66-138 Result D Limits 70-132		0.94 196066-009 RL 1.1	
Trifluorot Bromofluor Field ID: Type: Gasoline (Trifluorot Bromofluor Field ID:	27-C12 Surrogate coluene (FID) robenzene (FID) SS-31(A)-15.5 SAMPLE Analyte C7-C12 Surrogate coluene (FID) robenzene (FID) SS-31(A)-20.5 SAMPLE Analyte	NE 95 104 NE %REC 99 107	Limits 70-132 66-138 Result D Limits 70-132 66-138		0.94 196066-009 RL 1.1 196066-010	
Trifluorot Bromofluor Field ID: Type: Gasoline (Trifluorot Bromofluor Field ID: Type:	27-C12 Surrogate coluene (FID) robenzene (FID) SS-31(A)-15.5 SAMPLE Analyte C7-C12 Surrogate coluene (FID) robenzene (FID) SS-31(A)-20.5 SAMPLE Analyte	NE 95 104 NE 8REC 99 107	Limits 70-132 66-138 Result D Limits 70-132 66-138		0.94 196066-009 RL 1.1 196066-010 RL	



	Total V	Volatil	e Hydrocar	bons	
Lab #: 196066 Client: LFR Levine Fr Project#: 001-09567-01 Matrix: Soil Units: mg/Kg	icke		Location: Prep: Analysis: Batch#: Sampled:		Hanson Radum EPA 5030B EPA 8015B 127425 07/18/07
Basis: as received Diln Fac: 1.000			Received: Analyzed:		07/19/07 07/19/07
Field ID: SS-31(A)-25.5 Type: SAMPLE			Lab ID:		196066-011
Analyte Gasoline C7-C12	R ND	lesult		<u>RL</u>	n
				±••	
Surrogate Trifluorotoluene (FID) Bromofluorobenzene (FID)		Limits 70-132 66-138			
Field ID: SS-31(A)-30.5 Type: SAMPLE			Lab ID:		196066-012
Analyte		lesult		RL	
Gasoline C7-C12	ND			0.9	98
Surrogate		Limits			
Trifluorotoluene (FID) Bromofluorobenzene (FID)	95 106	70-132 66-138			
Bromorruorobenzene (FID)	100	00-138			
Type: BLANK			Lab ID:		QC397055
Analyte	R	lesult		RL	
Gasoline C7-C12	ND			0.2	20
Surrogate	%REC	Limits		_	
Trifluorotoluene (FID) Bromofluorobenzene (FID)	93 96	70-132 66-138			



	Total Volatil	e Hydrocarbons	
Lab #:	196066	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-01	Analysis:	EPA 8015B
Туре:	LCS	Basis:	as received
Lab ID:	QC397056	Diln Fac:	1.000
Matrix:	Soil	Batch#:	127425
Units:	mg/Kg	Analyzed:	07/19/07

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.942	99	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	70-132
Bromofluorobenzene (FID)	97	66-138



Total Volatile Hydrocarbons								
Lab #:	196066	Location:	Hanson Radum					
Client:	LFR Levine Fricke	Prep:	EPA 5030B					
Project#:	001-09567-01	Analysis:	EPA 8015B					
Field ID:	SS-31(A)-5.5	Diln Fac:	1.000					
MSS Lab ID:	196066-007	Batch#:	127425					
Matrix:	Soil	Sampled:	07/18/07					
Units:	mg/Kg	Received:	07/19/07					
Basis:	as received	Analyzed:	07/19/07					

Type:	MS			Lab ID:	QC3	97057		
	Analyte	MSS Re	sult	Spike	ed	Result	%REC	Limits
Gasoline	C7-C12		0.1189	10.	10	10.70	105	36-120
	Surrogate	%REC	Limits					
Trifluor	otoluene (FID)	110	70-132					
Bromoflue	orobenzene (FID)	108	66-138					
Туре:	MSD			Lab ID:	QC3	97058		
	Analyte		Spiked		Result	%REC	Limits	RPD Lim
Gasoline	C7-C12		9.90	1	9.789	98	36-120	7 29
	Surrogate	%REC	Limits					
Trifluor	otoluene (FID)	108	70-132					

107

66-138

Bromofluorobenzene (FID)



	:	Iotal :	Extracta	ble Hydrocarbo	ns	
Lab #:	196066			Location:	Hanson Radum	
Client:	LFR Levine Fi	ricke		Prep:	EPA 3520C	
Project#:	001-09567-01			Analysis:	EPA 8015B	
Field ID:	B-1(A)-GGW			Batch#:	127482	
Matrix:	Water			Sampled:	07/18/07	
Units:	ug/L			Received:	07/19/07	
Diln Fac:	1.000			Prepared:	07/21/07	
Type: Lab ID:	SAMPLE 196066-001			Analyzed: Cleanup Method:	07/24/07 EPA 3630C	
AI	nalyte		Result	RL		
Diesel C10-C2	24		79 н 1	Y 50		
Motor Oil C24	1-C36		1,100 H	300		
Su	rrogate	%REC	Limits			
Hexacosane		85	61-134			
Type: Lab ID:	BLANK QC397291			Analyzed: Cleanup Method:		
	nalyte		Result	RL		
Diesel C10-C2		NI	-	50		
Motor Oil C24	4-C36	NI)	300		
Sui	rrogate	%REC	Limits			
Hexacosane		105	61-134			

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
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Total Extractable Hydrocarbons							
Lab #:	196066	Location:	Hanson Radum				
Client:	LFR Levine Fricke	Prep:	EPA 3520C				
Project#:	001-09567-01	Analysis:	EPA 8015B				
Туре:	LCS	Diln Fac:	1.000				
Lab ID:	QC397292	Batch#:	127482				
Matrix:	Water	Prepared:	07/21/07				
Units:	ug/L	Analyzed:	07/22/07				

Cleanup Method: EPA 3630C

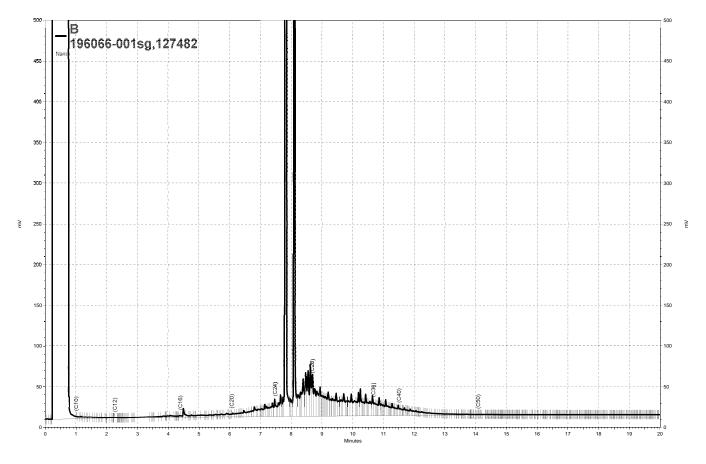
ŝ	Spiked	Result	%REC	Limits
2	2,500	2,192	88	58-130
%REC	Limits			
98	61-134			
	%REC		2,500 2,192 %REC Limits	2,500 2,192 88 %REC Limits



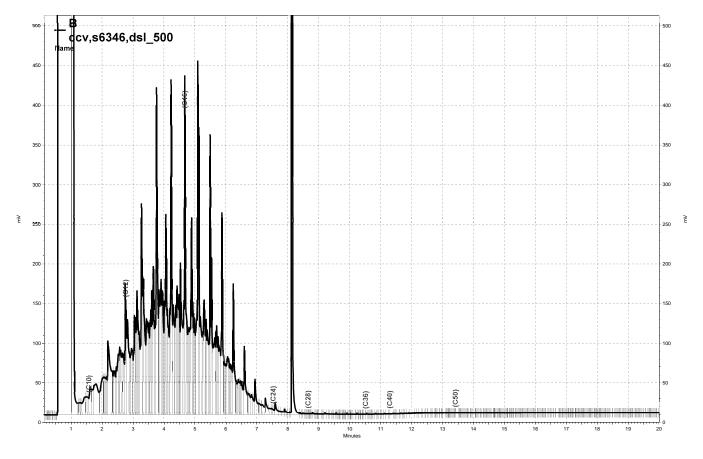
Total Extractable Hydrocarbons							
Lab #:	196066	Location:	Hanson Radum				
Client:	LFR Levine Fricke	Prep:	EPA 3520C				
Project#:	001-09567-01	Analysis:	EPA 8015B				
Field ID:	ZZZZZZZZZ	Batch#:	127482				
MSS Lab ID:	196040-002	Sampled:	07/17/07				
Matrix:	Water	Received:	07/17/07				
Units:	ug/L	Prepared:	07/21/07				
Diln Fac:	1.000	Analyzed:	07/23/07				

[ype:	MS			Lab ID:	QC397293		
	Analyte	MSS Res	ult	Spiked	Result	: %REC	Limits
Diesel C	10-C24	<15	.44	2,500	2,261	90	57-134
	Surrogate	%REC	Limits				
Hexacosa	ne	95	61-134				

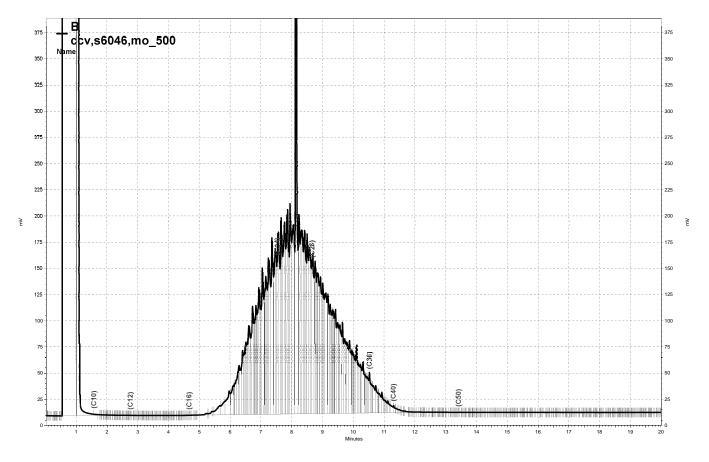
Type:	MSD			Lab ID:	Ç	C397294			
	Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Diesel C	10-C24		2,500		2,318	93	57-134	3	32
	Surrogate	%REC	Limits						
Hexacosa	ne	95	61-134						



-\\Lims\gdrive\ezchrom\Projects\GC14B\Data\203b076, B



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\203b004, B



\Lims\gdrive\ezchrom\Projects\GC15B\Data\203b005, B



	Т	otal I	Extracta	ble Hydrocarbo	ns
Lab #: Client:	196066 LFR Levine Fr	icke		Location: Prep:	Hanson Radum SHAKER TABLE
Project#: Matrix:	<u>001-09567-01</u> Soil			Analysis: Sampled:	EPA 8015B 07/18/07
Units: Basis:	mg/Kg as received			Received: Prepared:	07/19/07 07/19/07
Batch#:	127422			ricparca	677 197 67
Field ID:	EB-35(C)-5.5			Diln Fac:	1.000
Type: Lab ID:	SAMPLE 196066-003			Analyzed: Cleanup Method:	07/23/07 EPA 3630C
	lvte		Result	RL	
Diesel C10-C24	-	NE)	1.	
Motor Oil C24-C		NI		<u>.</u>	
Hexacosane	ogate	%REC 108	<u>Limits</u> 40-127		
Field ID:	EB-35(C)-10.5			Diln Fac:	1.000
Type:	SAMPLE			Analvzed:	07/23/07
Lab ID:	196066-004			Cleanup Method:	EPA 3630C
Anal	vte		Result	RT.	
					0
Diesel C10-C24 Motor Oil C24-C		NI NI)	1. 5.	
Diesel C10-C24 Motor Oil C24-C		NI NI %REC		1.	
Diesel C10-C24 Motor Oil C24-C	236	NI NI)	1.	
Diesel C10-C24 Motor Oil C24-C	236	NI NI %REC		1.	
Diesel C10-C24 Motor Oil C24-C Hexacosane Field ID:	EB-35(D)-5.5	NI NI %REC		1. 5. Diln Fac:	10.00
Diesel C10-C24 Motor Oil C24-C Surro Hexacosane	ogate	NI NI %REC		1. 5.	0 10.00 07/23/07
Diesel C10-C24 Motor Oil C24-C Surro Hexacosane Field ID: Type: Lab ID: Anal	EB-35(D)-5.5 SAMPLE	NI NT %REC 79	I.imits 40-127 Result	1. 5 Diln Fac: Analyzed: Cleanup Method: RI.	0 10.00 07/23/07 EPA 3630C
Diesel C10-C24 Motor Oil C24-C Surro Hexacosane Field ID: Type: Lab ID:	EB-35(D)-5.5 SAMPLE 196066-005	NI NT %REC 79	Limits 40-127	1. 5 Diln Fac: Analyzed: Cleanup Method: RI. 9.	0 10.00 07/23/07 EPA 3630C 9
Diesel C10-C24 Motor Oil C24-C Surre Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-C	EB-35(D)-5.5 SAMPLE 196066-005	NI NT %REC 79	I.imits 40-127 Result 38 H Y 810 H	1. 5 Diln Fac: Analyzed: Cleanup Method: RI. 9.	0 10.00 07/23/07 EPA 3630C 9
Diesel C10-C24 Motor Oil C24-C Surre Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-C	EB-35(D)-5.5 SAMPLE 196066-005	NI NT %REC 79	I.imits 40-127 Result 38 H Y 810 H	1. 5 Diln Fac: Analyzed: Cleanup Method: RI. 9.	0 10.00 07/23/07 EPA 3630C 9
Diesel C10-C24 Motor Oil C24-C Surro Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-C	EB-35(D)-5.5 SAMPLE 196066-005	NI NT 79 %REC	I.imits 40-127 40-127 80-127 80-127 80-127 810-14 810-14 810-14 810-14	1. 5 Diln Fac: Analyzed: Cleanup Method: RI. 9.	0 10.00 07/23/07 EPA 3630C 9
Diesel C10-C24 Motor Oil C24-C Surro Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-C	EB-35(D)-5.5 SAMPLE 196066-005	NI NT 79 %REC	I.imits 40-127 40-127 80-127 80-127 80-127 810-14 810-14 810-14 810-14	1. 5 Diln Fac: Analyzed: Cleanup Method: RI. 9.	0 10.00 07/23/07 EPA 3630C 9
Diesel C10-C24 Motor Oil C24-C Surre Hexacosane Field ID: Type: Lab ID: Motor Oil C24-C Motor Oil C24-C Hexacosane Field ID: Type: Field ID: Type:	EB-35(D)-5.5 SAMPLE 196066-005 Lyte C36 EB-35(D)-9.5 SAMPLE	NI NT 79 %REC	I.imits 40-127 40-127 80-127 80-127 80-127 810-14 810-14 810-14 810-14	1. 5. Diln Fac: Analyzed: Cleanup Method: RL 9. 50 Diln Fac: Analyzed:	0 10.00 07/23/07 EPA 3630C 9 1.000 07/23/07
Diesel C10-C24 Motor Oil C24-C Surro Hexacosane Field ID: Type: Lab ID: Motor Oil C24-C Motor Oil C24-C Surro Hexacosane Field ID: Type: Lab ID:	EB-35(D)-5.5 SAMPLE 196066-005 Lyte C36 Dgate EB-35(D)-9.5 SAMPLE 196066-006	NI NT 79 79	I.imits 40-127 8 38 8 10 H 10 H 40-127	1. 5. Diln Fac: Analyzed: Cleanup Method: RI. 9. 50 Diln Fac: Analyzed: Cleanup Method:	0 10.00 07/23/07 EPA 3630C 9 1.000 07/23/07
Diesel C10-C24 Motor Oil C24-C Surre Hexacosane Field ID: Type: Lab ID: Motor Oil C24-C Motor Oil C24-C Hexacosane Field ID: Type: Lab ID: Field ID: Type: Lab ID: Motor Oil C24-C Surre Hexacosane	EB-35(D)-5.5 SAMPLE 196066-005 Lyte C36 EB-35(D)-9.5 SAMPLE 196066-006 Lyte	NI NT 79 79	I.imits 40-127 8 38 810 H 40-127	1. 5 Diln Fac: Analyzed: Cleanup Method: RL 9. 50 Diln Fac: Analyzed: Cleanup Method: RL 0.	0 10.00 07/23/07 EPA 3630C 9 1.000 07/23/07 EPA 3630C 99
Diesel C10-C24 Motor Oil C24-C Surre Hexacosane Field ID: Type: Lab ID: Motor Oil C24-C Motor Oil C24-C Surre Hexacosane Field ID: Type: Lab ID: Anal	EB-35(D)-5.5 SAMPLE 196066-005 Lyte C36 EB-35(D)-9.5 SAMPLE 196066-006 Lyte	NI NT 79 8REC DO	I.imits 40-127 8 38 810 H 1.imits 40-127	1. 5 Diln Fac: Analyzed: Cleanup Method: RL 9. 50 Diln Fac: Analyzed: Cleanup Method: RL 0.	0 10.00 07/23/07 EPA 3630C 9 1.000 07/23/07 EPA 3630C
Diesel C10-C24 Motor Oil C24-C Surre Hexacosane Field ID: Type: Lab ID: Motor Oil C24-C Motor Oil C24-C Hexacosane Field ID: Type: Lab ID: Field ID: Type: Lab ID: Motor Oil C24-C Surre Hexacosane	EB-35(D)-5.5 SAMPLE 196066-005 Lyte C36 EB-35(D)-9.5 SAMPLE 196066-006 Lyte C36	NI NT 79 79 8REC DO	I.imits 40-127 40-127 38 H Y 810 H I.imits 40-127	1. 5 Diln Fac: Analyzed: Cleanup Method: RL 9. 50 Diln Fac: Analyzed: Cleanup Method: RL 0.	0 10.00 07/23/07 EPA 3630C 9 1.000 07/23/07 EPA 3630C 99

*= Value outside of QC limits; see narrative H= Heavier hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard

DO= Diluted Out ND= Not Detected

RL= Reporting Limit

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	т	otal I	Extracta	ble Hydrocarbo	ns
Lab #:	-			Location:	Hanson Radum
Client:	LFR Levine Fr	icke		Prep:	SHAKER TABLE
Project#: Matrix:	<u>001-09567-01</u> Soil			Analysis: Sampled:	EPA 8015B 07/18/07
Units:	mg/Kg			Received:	07/19/07
Basis: Batch#:	as received 127422			Prepared:	07/19/07
					1 000
Field ID: Type:	SS-31(A)-5.5 SAMPLE			Diln Fac: Analyzed:	1.000 07/24/07
Lab ID:	196066-007			Cleanup Method:	EPA 3630C
Ana	lyte		Result	RL	<u> </u>
Diesel C10-C24 Motor Oil C24-C	236	NE) 5.9 H		99 0
Surro	ogate	%REC	Limits		
Hexacosane		77	40-127		
Field ID:	SS-31(A)-10.5			Diln Fac:	1.000
Type:	SAMPLE			Analyzed:	07/24/07
Lab ID:	196066-008			Cleanup Method:	EPA 3630C
Ana Diesel C10-C24	lyte		Result	RL	
		NT)	1	0
Motor Oil C24-	236	NE NE		1. 5.	
Motor Oil C24-0	C36		Limits		
Motor Oil C24-0		NI)		
Motor Oil C24-0		NI %REC	Limits		
Motor Oil C24-0		NI %REC	Limits		1.000
Motor Oil C24-0 Surro Hexacosane Field ID: Type:	SS-31(A)-15.5 SAMPLE	NI %REC	Limits	5. Diln Fac: Analyzed:	0 1.000 07/23/07
Motor Oil C24-0 Surro Hexacosane Field ID: Type: Lab ID:	SS-31(A)-15.5 SAMPLE 196066-009	NE %REC 100	Limits 40-127	5. Diln Fac: Analyzed: Cleanup Method:	0 1.000 07/23/07
Motor Oil C24-0 Surro Hexacosane Field ID: Type: Lab ID: Diesel C10-C24	SS-31(A)-15.5 SAMPLE 196066-009	NE %REC 100	Limits 40-127 Result	5. Diln Fac: Analyzed: Cleanup Method: RL	0 1.000 07/23/07
Motor Oil C24-0 Surro Hexacosane Field ID: Type: Lab ID: Ana	SS-31(A)-15.5 SAMPLE 196066-009	NE %REC 100	Limits 40-127 Result	5. Diln Fac: Analyzed: Cleanup Method: RL	0 1.000 07/23/07 EPA 3630C 99
Motor Oil C24-0 Surro Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0 Surro	SS-31(A)-15.5 SAMPLE 196066-009	NI %REC 100 NI NI %REC	Limits 40-127 Result	5. Diln Fac: Analyzed: Cleanup Method: RL 0.	0 1.000 07/23/07 EPA 3630C 99
Motor Oil C24-0 Surro Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0	SS-31(A)-15.5 SAMPLE 196066-009	NE %REC 100 NE NE	Limits 40-127 Result	5. Diln Fac: Analyzed: Cleanup Method: RL 0.	0 1.000 07/23/07 EPA 3630C 99
Motor Oil C24-0 Surro Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0 Surro	SS-31(A)-15.5 SAMPLE 196066-009	NI %REC 100 NI NI %REC	Limits 40-127 Result	5. Diln Fac: Analyzed: Cleanup Method: RL 0.	0 1.000 07/23/07 EPA 3630C 99
Motor Oil C24-0 Surro Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0 Hexacosane Field ID: Field ID:	SS-31(A)-15.5 SAMPLE 196066-009 Lyte C36 SS-31(A)-20.5	NI %REC 100 NI NI %REC	Limits 40-127 Result	5. Diln Fac: Analyzed: Cleanup Method: RL 0. 5. Diln Fac:	0 1.000 07/23/07 EPA 3630C 99 0 1.000
Motor Oil C24-0 Surro Hexacosane Field ID: Type: Lab ID: Motor Oil C24-0 Motor Oil C24-0 Field ID: Field ID: Type: Field ID: Type:	SS-31(A)-15.5 SAMPLE 196066-009 Lyte 236 Dgate	NI %REC 100 NI NI %REC	Limits 40-127 Result	5. Diln Fac: Analyzed: Cleanup Method: RL 0. 5. Diln Fac: Analyzed:	0 1.000 07/23/07 EPA 3630C 99 0 1.000 07/24/07
Motor Oil C24-0 Surro Hexacosane Field ID: Type: Lab ID: Ana: Diesel C10-C24 Motor Oil C24-0 Evacosane Field ID: Type: Lab ID:	SS-31(A)-15.5 SAMPLE 196066-009 Lyte C36 SS-31(A)-20.5 SAMPLE 196066-010	NI %REC 100 NI NI 8REC 94	Limits 40-127 Result D Limits 40-127	5. Diln Fac: Analyzed: Cleanup Method: RL 0. 5. Diln Fac: Analyzed: Cleanup Method:	0 1.000 07/23/07 EPA 3630C 99 0 1.000 07/24/07
Motor Oil C24-0 Surro Hexacosane Field ID: Type: Lab ID: Motor Oil C24-0 Motor Oil C24-0 Field ID: Type: Lab ID: Field ID: Type: Lab ID: Diesel C10-C24	SS-31(A)-15.5 SAMPLE 196066-009 Lyte C36 SS-31(A)-20.5 SAMPLE 196066-010 Lyte	NI %REC 100 NI NI %REC 94	Limits 40-127 Result D Limits 40-127 Result	5. Diln Fac: Analyzed: Cleanup Method: RL 0. 5. Diln Fac: Analyzed: Cleanup Method: RL 1.	0 1.000 07/23/07 EPA 3630C 99 0 1.000 07/24/07 EPA 3630C 0
Motor Oil C24-0 Surro Hexacosane Field ID: Type: Lab ID: Ana: Diesel C10-C24 Motor Oil C24-0 Surro Hexacosane Field ID: Type: Lab ID: Ana: An	SS-31(A)-15.5 SAMPLE 196066-009 Lyte C36 SS-31(A)-20.5 SAMPLE 196066-010 Lyte	NI %REC 100 NI NI 8 REC 94	Limits 40-127 Result D Limits 40-127 Result	5. Diln Fac: Analyzed: Cleanup Method: RL 0. 5. Diln Fac: Analyzed: Cleanup Method: RL	0 1.000 07/23/07 EPA 3630C 99 0 1.000 07/24/07 EPA 3630C 0
Motor Oil C24-0 Surro Hexacosane Field ID: Type: Lab ID: Motor Oil C24-0 Motor Oil C24-0 Field ID: Type: Lab ID: Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0	SS-31(A)-15.5 SAMPLE 196066-009 Lyte C36 SS-31(A)-20.5 SAMPLE 196066-010 Lyte	NI %REC 100 NI NI %REC 94	Limits 40-127 Result Limits 40-127 Result	5. Diln Fac: Analyzed: Cleanup Method: RL 0. 5. Diln Fac: Analyzed: Cleanup Method: RL 1.	0 1.000 07/23/07 EPA 3630C 99 0 1.000 07/24/07 EPA 3630C 0

*= Value outside of QC limits; see narrative H= Heavier hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard DO= Diluted Out

ND= Not Detected

RL= Reporting Limit

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	Т	otal E	xtracta	ble Hydrocarbo	ns
Lab #: Client: Project#:	196066 LFR Levine Fr 001-09567-01	icke		Location: Prep: Analysis:	Hanson Radum SHAKER TABLE EPA 8015B
Matrix: Units: Basis: Batch#:	Soil mg/Kg as received 127422			Sampled: Received: Prepared:	07/18/07 07/19/07 07/19/07
Field ID: Type: Lab ID:	SS-31(A)-25.5 SAMPLE 196066-011			Diln Fac: Analyzed: Cleanup Method:	1.000 07/24/07 EPA 3630C
Anal	yte		Result	RL	0
Diesel C10-C24 Motor Oil C24-C	36	ND ND		1. 5.	
		0.550	-		-
Surro Hexacosane	gate	%REC 87	Limits 40-127		
Field ID: Type: Lab ID:	SS-31(A)-30.5 SAMPLE 196066-012			Diln Fac: Analyzed: Cleanup Method:	1.000 07/24/07 EPA 3630C
Anal Diesel C10-C24	yte	ND	Result	RL	99
Motor Oil C24-C	36	ND ND		5.	
Surro Hexacosane	gate	%REC 70	Limits 40-127		
Type: Lab ID: Diln Fac:	BLANK QC397041 1.000			Analyzed: Cleanup Method:	07/22/07 EPA 3630C
Anal	yte		Result	RL	
Diesel C10-C24 Motor Oil C24-C	36	ND ND		0. 5.	99 0
Surro Hexacosane		% REC 81	Limits 40-127		

*= Value outside of QC limits; see narrative H= Heavier hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard DO= Diluted Out ND= Not Detected RL= Reporting Limit Page 3 of 3



Total Extractable Hydrocarbons							
Lab #:	196066	Location:	Hanson Radum				
Client:	LFR Levine Fricke	Prep:	SHAKER TABLE				
Project#:	001-09567-01	Analysis:	EPA 8015B				
Туре:	LCS	Diln Fac:	1.000				
Lab ID:	QC397042	Batch#:	127422				
Matrix:	Soil	Prepared:	07/19/07				
Units:	mg/Kg	Analyzed:	07/23/07				
Basis:	as received						

Cleanup Method: EPA 3630C

Hexacosane

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.78	34.08	68	58-127
Surrogate	%REC Limits			

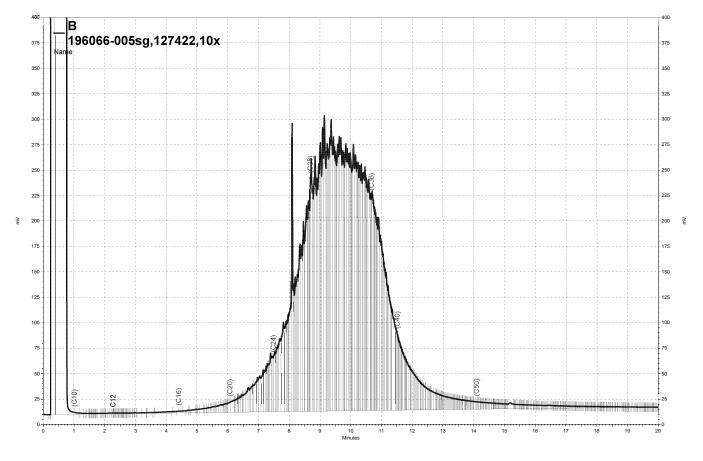
40-127

63

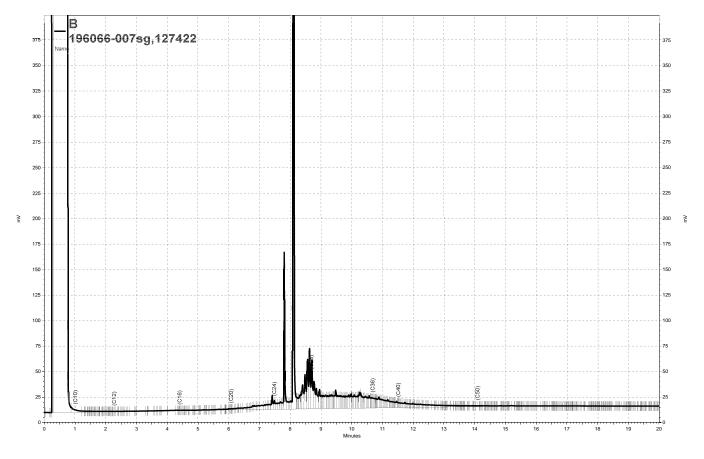


		Total 1	Extracta	ble Hydrocarbo	ns		
Lab #:	196066			Location:	Hanson Radum		
Client:	LFR Levine H	ricke		Prep:	SHAKER TABLE		
Project#:	001-09567-01	-		Analysis:	EPA 8015B		
Field ID:	ZZZZZZZZZZ			Diln Fac:	1.000		
MSS Lab ID:	195992-006			Batch#:	127422		
Matrix:	Miscell.			Sampled:	07/13/07		
Units:	mg/Kg			Received:	07/16/07		
Basis:	as received			Prepared:	07/19/07		
Type: Lab ID: Analy	MS QC397043	MSS Res	211]+	Analyzed: Cleanup Method: Spiked	07/22/07 EPA 3630C Result	%REC	Limits
Diesel C10-C24	-		5.33	49.94	124.9	139	29-147
	rogate	% REC	Limits 40-127				
Type: Lab ID:	MSD QC397044			Analyzed: Cleanup Method:	07/23/07 EPA 3630C		

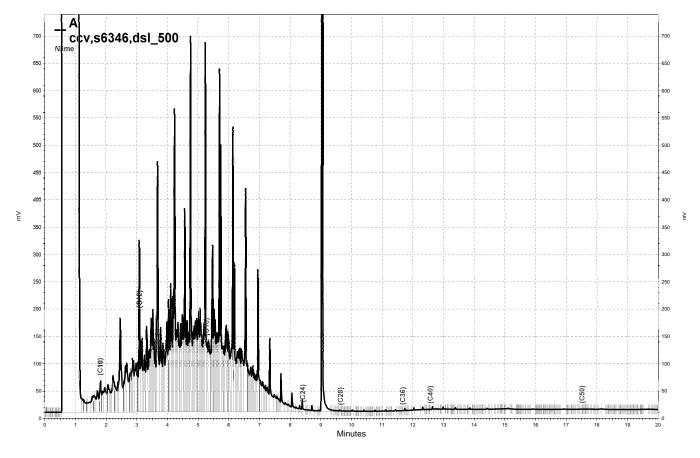
	Spiked	Result	%REC	Limits	RPD	T.im
	49.89	119.1	128	29-147	5	46
%DEC	Timita					
		%REC Limits	49.89 119.1 %REC Limits	49.89 119.1 128 %REC Limits	49.89 119.1 128 29-147 %REC Limits	49.89 119.1 128 29-147 5 %REC Limits



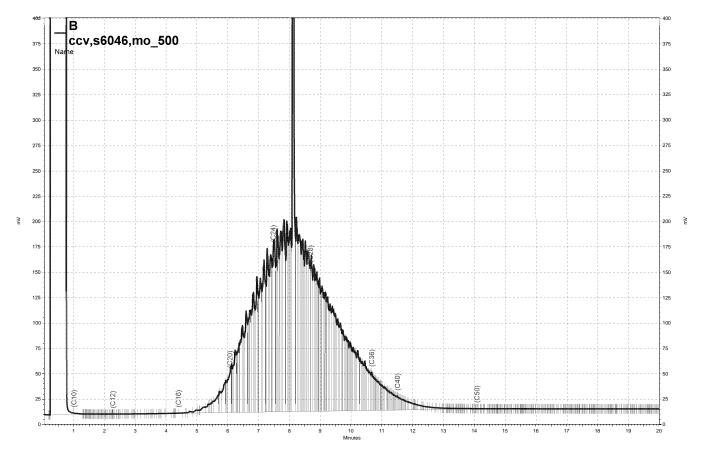
\Lims\gdrive\ezchrom\Projects\GC14B\Data\203b048, B



\Lims\gdrive\ezchrom\Projects\GC14B\Data\203b070, B



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\203a004, A



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\203b005, B



	Gasoline	by GC/MS	
Lab #: 196066 Client: LFR Levine Frick Project#: 001-09567-01	e	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B
Field ID: B-1(A)-GGW Lab ID: 196066-001 Matrix: Water Units: uq/L		Batch#: Sampled: Received: Analyzed:	127360 07/18/07 07/19/07 07/18/07
Diln Fac: 1,000		Allaryzeu:	07710707
Analyte	Result		RI,
Gasoline C7-C12	ND		50
tert-Butyl Alcohol (TBA) Freon 12	ND ND		10 1.0
Chloromethane	ND		1.0
Vinyl Chloride Isopropyl Ether (DIPE)	ND ND		0.5 0.5
Bromomethane	ND		1.0
Ethyl tert-Butyl Ether (ETBE) Methyl tert-Amyl Ether (TAME)	ND ND		0.5 0.5
Chloroethane	ND		1.0
Trichlorofluoromethane Acetone	ND 10		1.0 10
Freon 113	ND		0.5
1,1-Dichloroethene	ND		0.5
Methylene Chloride Carbon Disulfide	ND ND		10 0.5
MTBE	ND		0.5
trans-1,2-Dichloroethene Vinyl Acetate	ND ND		0.5 10
1,1-Dichloroethane	ND		0.5
2-Butanone cis-1,2-Dichloroethene	ND ND		10 0.5
2,2-Dichloropropane	ND		0.5
Chloroform Bromochloromethane	ND ND		0.5 0.5
1,1,1-Trichloroethane	ND		0.5
1,1-Dichloropropene Carbon Tetrachloride	ND ND		0.5 0.5
1,2-Dichloroethane	ND		0.5
Benzene Trichloroethene	ND ND		0.5 0.5
1,2-Dichloropropane	ND		0.5
Bromodichloromethane Dibromomethane	ND ND		0.5 0.5
4-Methyl-2-Pentanone	ND		10
cis-1,3-Dichloropropene Toluene	ND ND		0.5 0.5
trans-1,3-Dichloropropene	ND		0.5
1,1,2-Trichloroethane 2-Hexanone	ND ND		0.5 10
1,3-Dichloropropane	ND		0.5
Tetrachloroethene Dibromochloromethane	ND ND		0.5 0.5
1,2-Dibromoethane	ND ND		0.5
Chlorobenzene 1,1,1,2-Tetrachloroethane	ND ND		0.5 0.5
Ethylbenzene	ND ND		0.5
m,p-Xylenes	ND		0.5
o-Xylène Styrene	ND ND		0.5 0.5
Bromoform	ND		1.0
Isopropylbenzene 1,1,2,2-Tetrachloroethane	ND ND		0.5 0.5
1,2,3-Trichloropropane	ND		0.5

ND= Not Detected RL= Reporting Limit Page 1 of 2

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	Gasoline	by GC/MS	
Lab #: 196066		Location:	Hanson Radum
Client: LFR Levine Frick	ce	Prep:	EPA 5030B
Project#: 001-09567-01		Analysis:	EPA 8260B
Field ID: B-1(A)-GGW		Batch#:	127360
Lab ID: 196066-001		Sampled:	07/18/07
Matrix: Water		Received:	07/19/07
Units: ug/L		Analyzed:	07/18/07
Diln Fac: 1.000			
Analyte	Result		RL
Propylbenzene	ND		0.5
Bromobenzene	ND		0.5
1,3,5-Trimethylbenzene	ND		0.5
2-Chlorotoluene	ND		0.5
4-Chlorotoluene	ND		0.5 0.5
tert-Butylbenzene 1,2,4-Trimethylbenzene	ND ND		0.5
	ND ND		0.5
sec-Butylbenzene para-Isopropyl Toluene	ND ND		0.5
1,3-Dichlorobenzene	ND		0.5
1,4-Dichlorobenzene	ND		0.5
n-Butylbenzene	ND		0.5
1,2-Dichlorobenzene	ND		0.5
1,2-Dibromo-3-Chloropropane	ND		2.0
1,2,4-Trichlorobenzene	ND		0.5
Hexachlorobutadiene	ND		0.5
Naphthalene	ND		2.0
1,2,3-Trichlorobenzene	ND		0.5
			•••
	REC Limits		
Dibromofluoromethane 96			
1,2-Dichloroethane-d4 94			
Toluene-d8 99			
Bromofluorobenzene 98	8 80-122		



	Gasoline by GC/MS				
Lab #: Client: Project#:	196066 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B		
Type: Lab ID: Matrix: Units:	BLANK QC396744 Water ug/L	Diln Fac: Batch#: Analyzed:	1.000 127360 07/18/07		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
	ND	1.0
Bromomethane	ND	0.5
Ethyl tert-Butyl Ether (ETBE)		
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
		10
4-Methyl-2-Pentanone	ND ND	0.5
cis-1,3-Dichloropropene		
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
1,2,5-111010Propane	ЧИ	0.5

ND= Not Detected RL= Reporting Limit

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Gasoline by GC/MS							
Lab #: Client: Project#:	196066 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B				
Type: Lab ID: Matrix: Units:	BLANK QC396744 Water ug/L	Diln Fac: Batch#: Analyzed:	1.000 127360 07/18/07				

Analyte	Re	esult	RL	
Propylbenzene	ND		0.5	
Bromobenzene	ND		0.5	
1,3,5-Trimethylbenzene	ND		0.5	
2-Chlorotoluene	ND		0.5	
4-Chlorotoluene	ND		0.5	
tert-Butylbenzene	ND		0.5	
1,2,4-Trimethylbenzene	ND		0.5	
sec-Butylbenzene	ND		0.5	
para-Isopropyl Toluene	ND		0.5	
1,3-Dichlorobenzene	ND		0.5	
1,4-Dichlorobenzene	ND		0.5	
n-Butylbenzene	ND		0.5	
1,2-Dichlorobenzene	ND		0.5	
1,2-Dibromo-3-Chloropropane	ND		2.0	
1,2,4-Trichlorobenzene	ND		0.5	
Hexachlorobutadiene	ND		0.5	
Naphthalene	ND		2.0	
1,2,3-Trichlorobenzene	ND		0.5	
Surrogate		limits		
Dibromofluoromethane		30-123		
1,2-Dichloroethane-d4		/9-134		
Toluene-d8		80-120		
Bromofluorobenzene	98 8	80-122		



	Gaso	line by GC/MS		
Lab #: Client: Project#:	196066 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B	
Matrix: Units: Diln Fac:	Water ug/L 1.000	Batch#: Analyzed:	127360 07/18/07	

Type: BS			Lab ID:	QC	396745		
Analyte		Spiked		Result	%REC	Limits	
tert-Butyl Alcohol (TBA)		125.0		137.5	110	68-132	
Isopropyl Ether (DIPE)		25.00		25.20	101	65-120	
Ethyl tert-Butyl Ether (ETB)	Ε)	25.00		28.31	113	75-124	
Methyl tert-Amyl Ether (TAM)	ΞĴ	25.00		29.88	120	77-120	
1,1-Dichloroethene		25.00		29.27	117	80-132	
Benzene		25.00		27.35	109	80-120	
Trichloroethene		25.00		25.55	102	80-120	
Toluene		25.00		28.26	113	80-120	
Chlorobenzene		25.00		26.81	107	80-120	
Surrogate	%REC	Limits					
Dibromofluoromethane	98	80-123					
1,2-Dichloroethane-d4	96	79-134					

Dibromofluoromethane	98	80-123
1,2-Dichloroethane-d4	96	79-134
Toluene-d8	99	80-120
Bromofluorobenzene	98	80-122

Type: BSD			Lab ID:	QC39	6746			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)		125.0		125.1	100	68-132	9	20
Isopropyl Ether (DIPE)		25.00		23.70	95	65-120	6	20
Ethyl tert-Butyl Ether (ETBE	:)	25.00		26.28	105	75-124	7	20
Methyl tert-Amyl Ether (TAME	:)	25.00		27.41	110	77-120	9	20
1,1-Dichloroethene		25.00		27.31	109	80-132	7	20
Benzene		25.00		25.83	103	80-120	6	20
Trichloroethene		25.00		23.96	96	80-120	6	20
Toluene		25.00		26.39	106	80-120	7	20
Chlorobenzene		25.00		25.47	102	80-120	5	20
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Surrogate	%REC	Limits						
Dibromofluoromethane	97	80-123						
1,2-Dichloroethane-d4	97	79-134						
Toluene-d8	100	80-120						
Bromofluorobenzene	96	80-122						



	Gasc	line by GC/MS		
Lab #:	196066	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Matrix:	Water	Batch#:	127360	
Units:	ug/L	Analyzed:	07/18/07	
Diln Fac:	1.000			

Type:

BS

Lab ID: QC396827

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,500	1,427	95	70-130

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-123
1,2-Dichloroethane-d4	95	79-134
Toluene-d8	99	80-120
Bromofluorobenzene	97	80-122

Type: BSD			Lab ID:		QC396828			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Gasoline C7-C12		1,500		1,399	93	70-130	2	20
Surrogate	%REC	Limits						
Dibromofluoromethane	97	80-123						
1,2-Dichloroethane-d4	97	79-134						
Toluene-d8	98	80-120						
Bromofluorobenzene	96	80-122						



	Gasoline	by GC/MS	
Lab #:	196066	Location:	Hanson Radum
Client: Project#:	LFR Levine Fricke 001-09567-01	Prep: Analysis:	EPA 5030B EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	127360
MSS Lab ID:	196040-002	Sampled:	07/17/07
Matrix:	Water	Received:	07/17/07
Units:	ug/L	Analyzed:	07/19/07
Diln Fac:	1.000		

Type:	MS			Lab ID:	QC396910		
	Analyte	MSS	Result	Spiked	Result	%REC	Limits
tert-Butyl	Alcohol (TBA)		<1.579	125.0	124.4	99	69-137
Isopropyl E	Cther (DIPE)		<0.04032	25.00	25.43	102	69-120
	Butyl Ether (ETBE)		<0.07412	25.00	27.36	109	78-127
Methyl tert	-Amyl Ether (TAME)		<0.04870	25.00	28.79	115	79-120
1,1-Dichlor	roethene		<0.09386	25.00	27.83	111	80-139
Benzene			<0.2500	25.00	26.96	108	80-123
Trichloroet	hene		<0.1151	25.00	25.03	100	75-129
Toluene			<0.1338	25.00	27.15	109	80-122
Chlorobenze	ene		<0.1569	25.00	26.43	106	80-120
	Surrogate	%REC	Limits				
Dibromofluc	promethane	99	80-123				
1,2-Dichlor	roethane-d4	100	79-134				
Toluene-d8		100	80-120				
Bromofluorc	obenzene	97	80-122				

Type: MSD			Lab ID:	QC39	6911			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)		125.0		123.8	99	69-137	0	20
Isopropyl Ether (DIPE)		25.00		24.50	98	69-120	4	20
Ethyl tert-Butyl Ether (ETBE)		25.00		26.41	106	78-127	4	20
Methyl tert-Amyl Ether (TAME)		25.00		27.83	111	79-120	3	20
1,1-Dichloroethene		25.00		26.78	107	80-139	4	20
Benzene		25.00		26.47	106	80-123	2	20
Trichloroethene		25.00		24.48	98	75-129	2	20
Toluene		25.00		26.57	106	80-122	2	20
Chlorobenzene		25.00		26.07	104	80-120	1	20
Surrogate	%REC	Limits						
Dibromofluoromethane	99	80-123						
1,2-Dichloroethane-d4	97	79-134						
Toluene-d8	98	80-120						
Bromofluorobenzene	98	80-122						



BTXE & Oxygenates Hanson Radum Lab #: 196066 Location: Client: LFR Levine Fricke Prep: EPA 5030B Project#: 001-09567-01 Analysis: EPA 8260B SS-31(A)-5.5 Field ID: Diln Fac: 0.9804 Lab ID: 196066-007 Batch#: 127415 07/18/07 Matrix: Soil Sampled: Units: ug/Kg Received: 07/19/07 Analyzed: Basis: as received 07/19/07

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	98	
MTBE	ND	4.9	
Isopropyl Ether (DIPE)	ND	4.9	
Ethyl tert-Butyl Ether (ETBE)	ND	4.9	
1,2-Dichloroethane	ND	4.9	
Benzene	ND	4.9	
Methyl tert-Amyl Ether (TAME)	ND	4.9	
Toluene	ND	4.9	
1,2-Dibromoethane	ND	4.9	
Ethylbenzene	ND	4.9	
m,p-Xylenes	ND	4.9	
o-Xylene	ND	4.9	

Surrogate	%REC	Limits	
Dibromofluoromethane	101	78-126	
1,2-Dichloroethane-d4	103	76-135	
Toluene-d8	97	80-120	
Bromofluorobenzene	101	80-126	



BTXE & Oxygenates Lab #: Hanson Radum 196066 Location: Client: LFR Levine Fricke Prep: EPA 5030B Project#: 001-09567-01 Analysis: EPA 8260B SS-31(A)-10.5 Field ID: Diln Fac: 0.9434 Lab ID: 196066-008 Batch#: 127415 Matrix: Soil Sampled: 07/18/07 Units: ug/Kg Received: 07/19/07 Analyzed: Basis: as received 07/19/07

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	94	
MTBE	ND	4.7	
Isopropyl Ether (DIPE)	ND	4.7	
Ethyl tert-Butyl Ether (ETBE)	ND	4.7	
1,2-Dichloroethane	ND	4.7	
Benzene	ND	4.7	
Methyl tert-Amyl Ether (TAME)	ND	4.7	
Toluene	ND	4.7	
1,2-Dibromoethane	ND	4.7	
Ethylbenzene	ND	4.7	
m,p-Xylenes	ND	4.7	
o-Xylene	ND	4.7	

Surrogate	%REC	Limits	
Dibromofluoromethane	106	78-126	
1,2-Dichloroethane-d4	110	76-135	
Toluene-d8	99	80-120	
Bromofluorobenzene	100	80-126	



BTXE & Oxygenates Lab #: Hanson Radum 196066 Location: Client: LFR Levine Fricke Prep: EPA 5030B Project#: 001-09567-01 Analysis: EPA 8260B SS-31(A)-15.5 Field ID: Diln Fac: 0.9615 Lab ID: 196066-009 Batch#: 127415 Matrix: Soil Sampled: 07/18/07 Units: ug/Kg Received: 07/19/07 Analyzed: Basis: as received 07/19/07

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	96	
MTBE	ND	4.8	
Isopropyl Ether (DIPE)	ND	4.8	
Ethyl tert-Butyl Ether (ETBE)	ND	4.8	
1,2-Dichloroethane	ND	4.8	
Benzene	ND	4.8	
Methyl tert-Amyl Ether (TAME)	ND	4.8	
Toluene	ND	4.8	
1,2-Dibromoethane	ND	4.8	
Ethylbenzene	ND	4.8	
m,p-Xylenes	ND	4.8	
o-Xylene	ND	4.8	

Surrogate	%REC	Limits	
Dibromofluoromethane	104	78-126	
1,2-Dichloroethane-d4	107	76-135	
Toluene-d8	99	80-120	
Bromofluorobenzene	103	80-126	



BTXE & Oxygenates Lab #: Hanson Radum 196066 Location: Client: LFR Levine Fricke Prep: EPA 5030B Project#: 001-09567-01 Analysis: EPA 8260B SS-31(A)-20.5 Field ID: Diln Fac: 0.9259 Lab ID: 196066-010 Batch#: 127415 Matrix: Soil Sampled: 07/18/07 Units: ug/Kg Received: 07/19/07 Analyzed: Basis: as received 07/19/07

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	93	
MTBE	ND	4.6	
Isopropyl Ether (DIPE)	ND	4.6	
Ethyl tert-Butyl Ether (ETBE)	ND	4.6	
1,2-Dichloroethane	ND	4.6	
Benzene	ND	4.6	
Methyl tert-Amyl Ether (TAME)	ND	4.6	
Toluene	ND	4.6	
1,2-Dibromoethane	ND	4.6	
Ethylbenzene	ND	4.6	
m,p-Xylenes	ND	4.6	
o-Xylene	ND	4.6	

Surrogate	%REC	Limits	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	108	76-135	
Toluene-d8	99	80-120	
Bromofluorobenzene	102	80-126	

ND= Not Detected RL= Reporting Limit Page 1 of 1



BTXE & Oxygenates

Lab #:	196066	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(A)-25.5	Diln Fac:	0.9615	
Lab ID:	196066-011	Batch#:	127415	
Matrix:	Soil	Sampled:	07/18/07	
Units:	ug/Kg	Received:	07/19/07	
Basis:	as received	Analyzed:	07/19/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	96	
MTBE	ND	4.8	
Isopropyl Ether (DIPE)	ND	4.8	
Ethyl tert-Butyl Ether (ETBE)	ND	4.8	
1,2-Dichloroethane	ND	4.8	
Benzene	ND	4.8	
Methyl tert-Amyl Ether (TAME)	ND	4.8	
Toluene	ND	4.8	
1,2-Dibromoethane	ND	4.8	
Ethylbenzene	ND	4.8	
m,p-Xylenes	ND	4.8	
o-Xylene	ND	4.8	

Surrogate	%REC	Limits	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	110	76-135	
Toluene-d8	99	80-120	
Bromofluorobenzene	100	80-126	



BTXE & Oxygenates

Lab #:	196066	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(A)-30.5	Diln Fac:	1.000	
Lab ID:	196066-012	Batch#:	127415	
Matrix:	Soil	Sampled:	07/18/07	
Units:	ug/Kg	Received:	07/19/07	
Basis:	as received	Analyzed:	07/19/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	100	
MTBE	ND	5.0	
Isopropyl Ether (DIPE)	ND	5.0	
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	
1,2-Dichloroethane	ND	5.0	
Benzene	ND	5.0	
Methyl tert-Amyl Ether (TAME)	ND	5.0	
Toluene	ND	5.0	
1,2-Dibromoethane	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	

Surrogate	%REC	Limits	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	107	76-135	
Toluene-d8	97	80-120	
Bromofluorobenzene	102	80-126	



BTXE & Oxygenates						
Lab #:	196066	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 5030B			
Project#:	001-09567-01	Analysis:	EPA 8260B			
Type:	BLANK	Basis:	as received			
Lab ID:	QC396987	Diln Fac:	1.000			
Matrix:	Soil	Batch#:	127415			
Units:	ug/Kg	Analyzed:	07/19/07			

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	100	
MTBE	ND	5.0	
Isopropyl Ether (DIPE)	ND	5.0	
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	
1,2-Dichloroethane	ND	5.0	
Benzene	ND	5.0	
Methyl tert-Amyl Ether (TAME)	ND	5.0	
Toluene	ND	5.0	
1,2-Dibromoethane	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	

Surrogate	%REC	Limits	
Dibromofluoromethane	101	78-126	
1,2-Dichloroethane-d4	102	76-135	
Toluene-d8	98	80-120	
Bromofluorobenzene	102	80-126	



BTXE & Oxygenates						
Lab #:	196066	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 5030B			
Project#:	001-09567-01	Analysis:	EPA 8260B			
Type:	LCS	Basis:	as received			
Lab ID:	QC396988	Diln Fac:	1.000			
Matrix:	Soil	Batch#:	127415			
Units:	ug/Kg	Analyzed:	07/19/07			

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	250.0	242.5	97	56-130
MTBE	50.00	44.92	90	66-120
Isopropyl Ether (DIPE)	50.00	41.80	84	57-120
Ethyl tert-Butyl Ether (ETBE)	50.00	41.66	83	68-120
1,2-Dichloroethane	50.00	51.35	103	73-120
Benzene	50.00	50.06	100	80-120
Methyl tert-Amyl Ether (TAME)	50.00	49.17	98	73-120
Toluene	50.00	50.57	101	80-120
1,2-Dibromoethane	50.00	51.94	104	80-120
Ethylbenzene	50.00	51.79	104	80-125
m,p-Xylenes	100.0	104.8	105	80-123
o-Xylene	50.00	52.00	104	80-122

Surrogate	%REC	Limits		
Dibromofluoromethane	100	78-126		
1,2-Dichloroethane-d4	107	76-135		
Toluene-d8	101	80-120		
Bromofluorobenzene	96	80-126		



	B	IXE & Oxygenates		
Lab #: Client:	196066 LFR Levine Fricke	Location: Prep:	Hanson Radum EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(A)-5.5	Diln Fac:	0.9804	
MSS Lab ID:	196066-007	Batch#:	127415	
Matrix:	Soil	Sampled:	07/18/07	
Units:	ug/Kg	Received:	07/19/07	
Basis:	as received	Analyzed:	07/19/07	

Type: MS			Lab ID:	QC397059		
Analyte	MSS	Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)		<1.403	245.1	169.4	69	45-123
MTBE		<0.1161	49.02	35.11	72	55-120
Isopropyl Ether (DIPE)		<0.1337	49.02	32.47	66	50-120
Ethyl tert-Butyl Ether (ETBE)		<0.1074	49.02	33.07	67	58-120
1,2-Dichloroethane		<0.1975	49.02	43.39	89	56-120
Benzene		<0.1925	49.02	40.59	83	61-122
Methyl tert-Amyl Ether (TAME)		<0.09438	49.02	38.33	78	60-120
Toluene		<0.2524	49.02	40.54	83	57-124
1,2-Dibromoethane		<0.2877	49.02	42.76	87	57-120
Ethylbenzene		<0.3561	49.02	41.18	84	55-129
m,p-Xylenes		<0.5854	98.04	83.47	85	53-127
o-Xylene		<0.1744	49.02	41.82	85	54-127
a server and a	0.580	T				
Surrogate	%REC	Limits				
Dibromofluoromethane	105	78-126				
1,2-Dichloroethane-d4	109	76-135				
Toluene-d8	102	80-120				
Bromofluorobenzene	96	80-126				

Type: MSD			Lab ID:	QC	397060			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)		245.1		170.2	69	45-123	0	32
MTBE		49.02		38.42	78	55-120	9	20
Isopropyl Ether (DIPE)		49.02		36.99	75	50-120	13	20
Ethyl tert-Butyl Ether (ETBE)		49.02		36.89	75	58-120	11	20
1,2-Dichloroethane		49.02		38.61	79	56-120	12	20
Benzene		49.02		37.31	76	61-122	8	20
Methyl tert-Amyl Ether (TAME)		49.02		41.85	85	60-120	9	20
Toluene		49.02		37.40	76	57-124	8	21
1,2-Dibromoethane		49.02		38.44	78	57-120	11	20
Ethylbenzene		49.02		38.12	78	55-129	8	23
m,p-Xylenes		98.04		77.48	79	53-127	7	23
o-Xylene		49.02		39.15	80	54-127	7	22
Surrogate	%REC	Limits						
Dibromofluoromethane	102	78-126						
1,2-Dichloroethane-d4	102	76-135						
Toluene-d8	104	80-120						
Bromofluorobenzene	97	80-120						
Promorrancemzene	זו	00-120						



Semivolatile Organics by GC/MS					
Lab #:	196066	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3550B		
Project#:	001-09567-01	Analysis:	EPA 8270C		
Field ID:	SS-31(A)-5.5	Batch#:	127409		
Lab ID:	196066-007	Sampled:	07/18/07		
Matrix:	Soil	Received:	07/19/07		
Units:	ug/Kg	Prepared:	07/19/07		
Basis: Diln Fac:	as received 1.000	Analyzed:	07/24/07		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND ND	330
		330
1,4-Dichlorobenzene	ND	
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	660
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,600
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	66
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	66
Hexachlorocyclopentadiene	ND	660
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	660
Dimethylphthalate	ND	330
Acenaphthylene	ND	66
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	660
Acenaphthene	ND	66
2,4-Dinitrophenol	ND	660
4-Nitrophenol	ND ND	660
Dibenzofuran	ND ND	330
2,4-Dinitrotoluene	ND ND	330
Diethylphthalate	ND ND	330
	ND ND	66
Fluorene		330
4-Chlorophenyl-phenylether	ND	
4-Nitroaniline	ND	660
4,6-Dinitro-2-methylphenol	ND	660
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	660
Phenanthrene	ND	66
Anthracene	ND	66
Di-n-butylphthalate	ND	330

ND= Not Detected RL= Reporting Limit Page 1 of 2



	Semivolatile Organics by GC/MS					
Lab #: Client:	196066 LFR Levine Fricke	Location: Prep:	Hanson Radum EPA 3550B			
Project#:	001-09567-01	Analysis:	EPA 8270C			
Field ID:	SS-31(A)-5.5	Batch#:	127409			
Lab ID:	196066-007	Sampled:	07/18/07			
Matrix:	Soil	Received:	07/19/07			
Units:	ug/Kg	Prepared:	07/19/07			
Basis: Diln Fac:	as received 1.000	Analyzed:	07/24/07			

Analyte	Result	RL	
Fluoranthene	ND	66	
Pyrene	ND	66	
Butylbenzylphthalate	ND	330	
3,3 [°] -Dichlorobenzidine	ND	660	
Benzo(a)anthracene	ND	66	
Chrysene	ND	66	
bis(2-Ethylhexyl)phthalate	ND	330	
Di-n-octylphthalate	ND	330	
Benzo(b)fluoranthene	ND	66	
Benzo(k)fluoranthene	ND	66	
Benzo(a)pyrene	ND	66	
Indeno(1,2,3-cd)pyrene	ND	66	
Dibenz(a,h)anthracene	ND	66	
Benzo(g,h,i)perylene	ND	66	
Gummagaha	%REC Limits		
Surrogate 2-Fluorophenol	52 28-120		
Phenol-d5	54 30-120		
2,4,6-Tribromophenol	49 20-120		
Nitrobenzene-d5	56 39-120		
2-Fluorobiphenyl	54 44-120		
Terphenyl-d14	54 44 120 51 39 120		
TEThuenAt-at-	51 59-120		

ND= Not Detected RL= Reporting Limit Page 2 of 2



Semivolatile Organics by GC/MS					
Lab #:	196066	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3550B		
Project#:	001-09567-01	Analysis:	EPA 8270C		
Field ID:	SS-31(A)-10.5	Batch#:	127409		
Lab ID:	196066-008	Sampled:	07/18/07		
Matrix:	Soil	Received:	07/19/07		
Units:	ug/Kg	Prepared:	07/19/07		
Basis:	as received	Analyzed:	07/24/07		
Diln Fac:	1.000				

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND ND	330
		330
Benzyl alcohol	ND	
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	660
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,600
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	66
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
	ND	66
2-Methylnaphthalene	ND ND	660
Hexachlorocyclopentadiene		330
2,4,6-Trichlorophenol	ND	
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	660
Dimethylphthalate	ND	330
Acenaphthylene	ND	66
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	660
Acenaphthene	ND	66
2,4-Dinitrophenol	ND	660
4-Nitrophenol	ND	660
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	66
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	660
4,6-Dinitro-2-methylphenol	ND	660
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
		660
Pentachlorophenol	ND	
Phenanthrene	ND	66
Anthracene	ND	66
Di-n-butylphthalate	ND	330

ND= Not Detected RL= Reporting Limit Page 1 of 2



Semivolatile Organics by GC/MS					
Lab #:	196066	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3550B		
Project#:	001-09567-01	Analysis:	EPA 8270C		
Field ID:	SS-31(A)-10.5	Batch#:	127409		
Lab ID:	196066-008	Sampled:	07/18/07		
Matrix:	Soil	Received:	07/19/07		
Units:	ug/Kg	Prepared:	07/19/07		
Basis:	as received	Analyzed:	07/24/07		
Diln Fac:	1.000	-			

	Result	RL	
ND		66	
ND			
ND			
ND		660	
ND		66	
ND		66	
ND		330	
ND		330	
ND		66	
%DFC	Timita		
	ND ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND ND ND ND ND N	ND 66 ND 330 ND 660 ND 66 ND 66 ND 330 ND 330 ND 66 ND 62 120 64 65 44-120



	Semivolatile Organics by GC/MS					
Lab #:	196066	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 3550B			
Project#:	001-09567-01	Analysis:	EPA 8270C			
Type:	BLANK	Diln Fac:	1.000			
Type: Lab ID:	QC396965	Batch#:	127409			
Matrix:	Soil	Prepared:	07/19/07			
Units:	ug/Kg	Analyzed:	07/20/07			
Basis:	as received	_				

Analyte	Result	RL	
N-Nitrosodimethylamine	ND	330	
Phenol	ND	330	
bis(2-Chloroethyl)ether	ND	330	
2-Chlorophenol	ND	330	
1,3-Dichlorobenzene	ND	330	
1,4-Dichlorobenzene	ND	330	
Benzyl alcohol	ND	330	
1,2-Dichlorobenzene	ND	330	
2-Methylphenol	ND	330	
bis(2-Chloroisopropyl) ether	ND	330	
4-Methylphenol	ND	330	
N-Nitroso-di-n-propylamine	ND	330	
Hexachloroethane	ND	330	
Nitrobenzene	ND	330	
Isophorone	ND	330	
2-Nitrophenol	ND	670	
2,4-Dimethylphenol	ND	330	
Benzoic acid	ND	1,700	
bis(2-Chloroethoxy)methane	ND	330	
2,4-Dichlorophenol	ND	330	
1,2,4-Trichlorobenzene	ND	330	
Naphthalene	ND ND	67	
4-Chloroaniline		330	
Hexachlorobutadiene	ND ND	330	
4-Chloro-3-methylphenol	ND	330 67	
2-Methylnaphthalene	ND		
Hexachlorocyclopentadiene	ND	670	
2,4,6-Trichlorophenol	ND	330	
2,4,5-Trichlorophenol	ND	330	
2-Chloronaphthalene	ND	330	
2-Nitroaniline	ND	670	
Dimethylphthalate	ND	330	
Acenaphthylene	ND	67	
2,6-Dinitrotoluene	ND	330	
3-Nitroaniline	ND	670	
Acenaphthene	ND	67	
2,4-Dinitrophenol	ND	670	
4-Nitrophenol	ND	670	
Dibenzofuran	ND	330	
2,4-Dinitrotoluene	ND	330	
Diethylphthalate	ND	330	
Fluorene	ND	67	
4-Chlorophenyl-phenylether	ND	330	
4-Nitroaniline	ND	670	
4,6-Dinitro-2-methylphenol	ND	670	
N-Nitrosodiphenylamine	ND	330	
Azobenzene	ND	330	
4-Bromophenyl-phenylether	ND	330	
Hexachlorobenzene	ND	330	
Pentachlorophenol	ND	670	
Phenanthrene	ND	67	
Anthracene	ND	67	
Di-n-butylphthalate	ND	330	

ND= Not Detected RL= Reporting Limit



	Semivolatile Organics by GC/MS					
Lab #:	196066	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 3550B			
Project#:	001-09567-01	Analysis:	EPA 8270C			
Type: Lab ID:	BLANK	Diln Fac:	1.000			
Lab ID:	QC396965	Batch#:	127409			
Matrix:	Soil	Prepared:	07/19/07			
Units:	ug/Kg	Analyzed:	07/20/07			
Basis:	as received	_				

Analyte]	Result	RL	
Fluoranthene	ND		67	
Pyrene	ND		67	
Butylbenzylphthalate	ND		330	
3,3'-Dichlorobenzidine	ND		670	
Benzo(a)anthracene	ND		67	
Chrysene	ND		67	
bis(2-Ethylhexyl)phthalate	ND		330	
Di-n-octylphthalate	ND		330	
Benzo(b)fluoranthene	ND		67	
Benzo(k)fluoranthene	ND		67	
Benzo(a)pyrene	ND		67	
Indeno(1,2,3-cd)pyrene	ND		67	
Dibenz(a,h)anthracene	ND		67	
Benzo(g,h,i)perylene	ND		67	
	A	- 1 1.		
Surrogate	%REC	Limits		
2-Fluorophenol	69	28-120		
Phenol-d5	68	30-120		
2,4,6-Tribromophenol	74	20-120		
Nitrobenzene-d5	70	39-120		
2-Fluorobiphenyl	74	44-120		
Terphenyl-d14	72	39-120		



Semivolatile Organics by GC/MS				
Lab #:	196066	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8270C	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC396966	Batch#:	127409	
Matrix:	Soil	Prepared:	07/19/07	
Units:	ug/Kg	Analyzed:	07/20/07	
Basis:	as received			

Analyte	Spiked	Result	%REC	Limits
Phenol	2,665	1,778	67	40-120
2-Chlorophenol	2,665	1,834	69	40-120
1,4-Dichlorobenzene	1,332	1,067	80	45-120
N-Nitroso-di-n-propylamine	1,332	782.0	59	34-120
1,2,4-Trichlorobenzene	1,332	1,136	85	45-120
4-Chloro-3-methylphenol	2,665	1,993	75	45-120
Acenaphthene	1,332	970.3	73	42-120
4-Nitrophenol	2,665	1,630	61	31-120
2,4-Dinitrotoluene	1,332	1,111	83	41-120
Pentachlorophenol	2,665	1,970	74	21-120
Pyrene	1,332	991.4	74	41-120

Surrogate	%REC	Limits
2-Fluorophenol	69	28-120
Phenol-d5	68	30-120
2,4,6-Tribromophenol	104	20-120
Nitrobenzene-d5	68	39-120
2-Fluorobiphenyl	74	44-120
Terphenyl-d14	71	39-120



Semivolatile Organics by GC/MS				
Lab #:	196066	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8270C	
Field ID:	SS-31(A)-5.5	Batch#:	127409	
MSS Lab ID:	196066-007	Sampled:	07/18/07	
Matrix:	Soil	Received:	07/19/07	
Units:	ug/Kg	Prepared:	07/19/07	
Basis:	as received	Analyzed:	07/26/07	
Diln Fac:	1.000	-		

Type: MS		Lab ID:	QC396967		
Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<79.34	2,660	1,877	71	38-120
2-Chlorophenol	<77.83	2,660	1,848	69	38-120
1,4-Dichlorobenzene	<21.83	1,330	987.9	74	49-120
N-Nitroso-di-n-propylamin	e <15.02	1,330	880.9	66	43-120
1,2,4-Trichlorobenzene	<20.21	1,330	1,021	77	47-120
4-Chloro-3-methylphenol	<88.23	2,660	2,071	78	44-120
Acenaphthene	<14.68	1,330	970.9	73	48-120
4-Nitrophenol	<65.81	2,660	1,692	64	30-120
2,4-Dinitrotoluene	<12.11	1,330	1,075	81	41-120
Pentachlorophenol	<147.7	2,660	1,547	58	13-120
Pyrene	<14.95	1,330	1,029	77	42-120
Surrogate	%REC Limits				
2-Fluorophenol	69 28-120				
Phenol-d5	74 30-120				
2,4,6-Tribromophenol	100 20-120				
Nitriahampana d					

	Analyte		Spiked		Result	%REC	Limits	RPD Lim	
Туре:	MSD			Lab ID:		QC396968			
Nitrobenz 2-Fluorob Terpheny	oiphenyl	70 74 72	39-120 44-120 39-120						

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	2,659	1,830	69	38-120	2	26
2-Chlorophenol	2,659	1,872	70	38-120	1	28
1,4-Dichlorobenzene	1,329	1,081	81	49-120	9	27
N-Nitroso-di-n-propylamine	1,329	844.8	64	43-120	4	28
1,2,4-Trichlorobenzene	1,329	1,104	83	47-120	8	26
4-Chloro-3-methylphenol	2,659	1,965	74	44-120	5	28
Acenaphthene	1,329	962.8	72	48-120	1	29
4-Nitrophenol	2,659	1,566	59	30-120	8	38
2,4-Dinitrotoluene	1,329	1,024	77	41-120	5	26
Pentachlorophenol	2,659	1,546	58	13-120	0	55
Pyrene	1,329	979.8	74	42-120	5	30
Surrogate	%REC Limits					
2-Fluorophenol	70 28-120					
Phenol-d5	72 30-120					
2,4,6-Tribromophenol	102 20-120					
Nitrobenzene-d5	69 39-120					
2-Fluorobiphenyl	75 44-120					
Terphenyl-d14	70 39-120					



Organochlorine Pesticides				
Lab #:	196066	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8081A	
Field ID:	SS-31(A)-5.5	Batch#:	127426	
Lab ID:	196066-007	Sampled:	07/18/07	
Matrix:	Soil	Received:	07/19/07	
Units:	ug/Kg	Prepared:	07/19/07	
Basis:	as received	Analyzed:	07/20/07	
Diln Fac:	1.000			

Analyte	Result	RL	
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.3	
4,4'-DDE	ND	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin aldehyde	ND	3.3	
4,4'-DDT	ND	3.3	
alpha-Chlordane	ND	1.7	
gamma-Chlordane	ND	1.7	
Methoxychlor	ND	17	
Toxaphene	ND	59	

Surrogate	%REC	Limits
TCMX	66	50-120
Decachlorobiphenyl	84	54-133



Organochlorine Pesticides				
Lab #:	196066	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8081A	
Field ID:	SS-31(A)-10.5	Batch#:	127426	
Lab ID:	196066-008	Sampled:	07/18/07	
Matrix:	Soil	Received:	07/19/07	
Units:	ug/Kg	Prepared:	07/19/07	
Basis:	as received	Analyzed:	07/20/07	
Diln Fac:	1.000			

Analyte	Result	RL	
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.3	
4,4'-DDE	ND	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin aldehyde	ND	3.3	
4,4'-DDT	ND	3.3	
alpha-Chlordane	ND	1.7	
gamma-Chlordane	ND	1.7	
Methoxychlor	ND	17	
Toxaphene	ND	59	

Surrogate	%REC	Limits
TCMX	57	50-120
Decachlorobiphenyl	76	54-133



Organochlorine Pesticides					
Lab #:	196066	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3550B		
Project#:	001-09567-01	Analysis:	EPA 8081A		
Туре:	BLANK	Diln Fac:	1.000		
Lab ID:	QC397061	Batch#:	127426		
Matrix:	Soil	Prepared:	07/19/07		
Units:	ug/Kg	Analyzed:	07/20/07		
Basis:	as received				

Analyte	Result	RL	
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.3	
4,4'-DDE	ND	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin aldehyde	ND	3.3	
4,4'-DDT	ND	3.3	
alpha-Chlordane	ND	1.7	
gamma-Chlordane	ND	1.7	
Methoxychlor	ND	17	
Toxaphene	ND	60	

Surrogate	%REC	Limits
TCMX	64	50-120
Decachlorobiphenyl	100	54-133



Organochlorine Pesticides						
Lab #:	196066	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 3550B			
Project#:	001-09567-01	Analysis:	EPA 8081A			
Type:	LCS	Diln Fac:	1.000			
Lab ID:	QC397062	Batch#:	127426			
Matrix:	Soil	Prepared:	07/19/07			
Units:	ug/Kg	Analyzed:	07/20/07			
Basis:	as received					

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	13.32	9.443	71	42-120
Heptachlor	13.32	9.818	74	44-130
Aldrin	13.32	9.564	72	47-120
Dieldrin	26.63	20.72	78	50-121
Endrin	26.63	19.00	71	39-130
4,4'-DDT	26.63	19.17	72	45-127

Surrogate	%REC	Limits
TCMX	65	50-120
Decachlorobiphenyl	90	54-133



Organochlorine Pesticides						
Lab #: Client:	196066 LFR Levine Fricke	Location: Prep:	Hanson Radum EPA 3550B			
Project#:	001-09567-01	Analysis:	EPA 8081A			
Field ID:	ZZZZZZZZZZ	Batch#:	127426			
MSS Lab ID:	196075-003	Sampled:	07/19/07			
Matrix:	Soil	Received:	07/19/07			
Units:	ug/Kg	Prepared:	07/19/07			
Basis: Diln Fac:	as received 1.000	Analyzed:	07/21/07			

Type: Lab ID:

MS QC397063

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.5534	13.31	10.30	77	45-120
Heptachlor	0.6478	13.31	9.770	69	50-124
Aldrin	0.9546	13.31	10.29	70	47-122
Dieldrin	<1.245	26.62	21.64	81	47-122
Endrin	<1.500	26.62	18.84	71	46-127
4,4'-DDT	108.8	26.62	69.01 #	-149 NI	M 27-136

	Surrogate	%REC	Limits
TCMX		87	50-120
	orobiphenyl	555 * >LR b	54-133

Type: Lab ID:

MSD 7064 **~**1

Cleanup Method: EPA 3620B

PIDD D
QC397

Cleanup Method: EPA 36201	Cleanup	Method:	EPA	36201
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Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	13.25	11.87	90	45-120	15	39
Heptachlor	13.25	10.79	77	50-124	10	37
Aldrin	13.25	11.38	79	47-122	10	35
Dieldrin	26.50	25.22	95	47-122	16	34
Endrin	26.50	23.20	88	46-127	21	37
4,4'-DDT	26.50	91.72 #	-64 NM	27-136	28	49

Surrogate	%REC	Limits
TCMX	95	50-120
Decachlorobiphenyl	503 * >LR b	54-133

#= CCV drift outside limits; average CCV drift within limits per method requirements
*= Value outside of QC limits; see narrative b= See narrative NM= Not Meaningful: Sample concentration > 4X spike concentration >LR= Response exceeds instrument's linear range RPD= Relative Percent Difference Page 1 of 1



	Po	lychlorinated	Biphenyls (PC	Bs)
Lab #:	196066		Location:	Hanson Radum
Client:	LFR Levine Fr	ıcke	Prep:	EPA 3550B
Project#: Matrix:	001-09567-01 Soil		Analysis: Sampled:	EPA 8082 07/18/07
Units:	ug/Kg		Received:	07/19/07
Basis:	as received		Prepared:	07/19/07
Diln Fac:	1.000		Analyzed:	07/21/07
Batch#:	127426		-	
Field ID:	SS-31(A)-5.5		Lab ID:	196066-007
Type:	SAMPLE		Cleanup Method:	EPA 3665A
7001		Result	RL	
Anal Aroclor-1016	yle	ND Result	<u></u> 9.	5
Aroclor-1221		ND	19	
Aroclor-1232		ND	9.	5
Aroclor-1242		ND	9.	5
Aroclor-1248		ND	9.	5
Aroclor-1254		ND	9.	
Aroclor-1260		ND	9.	5
Surro	gate	%REC Limits		
TCMX	_	92 63-141		
Decachlorobiphe	nyl	83 50-158		
Field ID:	SS-31(A)-10.5		Lab ID:	196066-008
Type:	SAMPLE		Cleanup Method:	EPA 3665A
Anal Aroclor-1016	yte	Result ND	<u>RL</u> 9.	5
Aroclor-1221		ND	19.	5
Aroclor-1232		ND	9.	5
Aroclor-1242		ND	9.	5
Aroclor-1248		ND	9.	5
Aroclor-1254		ND	9.	
Aroclor-1260		ND	9.	5
Surro	gate	%REC Limits		
TCMX		104 63-141		
Decachlorobiphe	nyl	100 50-158		
Type:	BLANK		Cleanup Method:	EPA 3665A
Type: Lab ID:	BLANK QC397061		Cleanup Method:	EPA 3665A
Lab ID:	QC397061	D1-		EPA 3665A
Lab ID: Anal	QC397061	Result	RL	
Lab ID: Anal Aroclor-1016	QC397061	ND	RL 9.	
Lab ID: Anal	QC397061	ND ND	RL 9. 19	6
Lab ID: Aroclor-1016 Aroclor-1221	QC397061	ND	RL 9. 19 9.	6
Lab ID: Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248	QC397061	ND ND ND	RL 9. 19 9. 9. 9. 9.	6 6 6 6
Lab ID: Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254	QC397061	ND ND ND ND ND ND	RL 9. 19 9. 9. 9. 9.	6 6 6 6 6
Lab ID: Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248	QC397061	ND ND ND ND ND	RL 9. 19 9. 9. 9. 9.	6 6 6 6 6
Lab ID: Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	QC397061 yte	ND ND ND ND ND ND ND	RL 9. 19 9. 9. 9. 9.	6 6 6 6 6
Lab ID: Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254	QC397061 yte gate	ND ND ND ND ND ND	RL 9. 19 9. 9. 9. 9.	6 6 6 6 6

ND= Not Detected RL= Reporting Limit Page 1 of 1



	Polychlorinated	Biphenyls (PC	Bs)
Lab #:	196066	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 3550B
Project#:	001-09567-01	Analysis:	EPA 8082
Туре:	LCS	Diln Fac:	1.000
Lab ID:	QC397069	Batch#:	127426
Matrix:	Soil	Prepared:	07/19/07
Units:	ug/Kg	Analyzed:	07/21/07
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1232	166.3	171.5	103	68-138

Surrogate	%REC	Limits
TCMX	101	63-141
Decachlorobiphenyl	88	50-158



	Polychlorinated	Biphenyls (PC	Bs)
Lab #:	196066	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 3550B
Project#:	001-09567-01	Analysis:	EPA 8082
Field ID:	SS-31(A)-5.5	Batch#:	127426
MSS Lab ID:	196066-007	Sampled:	07/18/07
Matrix:	Soil	Received:	07/19/07
Units:	ug/Kg	Prepared:	07/19/07
Basis:	as received	Analyzed:	07/21/07
Diln Fac:	1.000		

Type: MS Lab ID: QC3

Decachlorobiphenyl

QC397070

Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1232	<1.312	166.2	194.6	117	72-140

Surrogate	%REC	Limits
TCMX	112	63-141
Decachlorobiphenyl	103	50-158

Type: Lab ID:	MSD QC397071			Cleanup Method: EPA 36	65A			
	Analyte		Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-123	32		166.3	180.3	108	72-140	8	27
S	Surrogate	%REC	Limits					
TCMX		99	63-141					

50-158

98



		Califor	nia Ti	tle 26 M	letals		
Lab #:	196066]	Project#:	0.0	1-09567-01	
Client:	LFR Levine Fri	cke]	Location:	Ha	nson Radum	
Field ID:	SS-31(A)-5.5]	Basis:	as	received	
Lab ID:	196066-007]	Diln Fac:	1.	000	
Matrix:	Soil		:	Sampled:	07	/18/07	
Units:	mg/Kg]	Received:	07	/19/07	
Ame Justic	Degult	DT	Dotab#	Duamanad	Amelanad	Dreem	Ame looging
Analyte	Result 0.95	RL 0.50		Prepared 07/19/07		Prep EPA 3050B	Analysis EPA 6010B
Antimony Arsenic	8.3	0.25		07/19/07		EPA 3050B EPA 3050B	EPA 6010B EPA 6010B
Barium	8.3 260	0.25	_	07/19/07	- , -, -	EPA 3050B EPA 3050B	EPA 6010B EPA 6010B
	260	0.25	_	- , -, -	- , -, -	EPA 3050B EPA 3050B	EPA 6010B EPA 6010B
Beryllium Cadmium	0.41 ND	0.10		07/19/07 07/19/07		EPA 3050B EPA 3050B	EPA 6010B EPA 6010B
Chromium	27	0.25	_	07/19/07	- , -, -	EPA 3050B EPA 3050B	EPA 6010B
Cobalt	9.8	0.25		07/19/07		EPA 3050B EPA 3050B	EPA 6010B EPA 6010B
	35	0.25		07/19/07		EPA 3050B EPA 3050B	EPA 6010B EPA 6010B
Copper Lead	6.9	0.25	_	07/19/07	- , -, -	EPA 3050B EPA 3050B	EPA 6010B
Mercury	0.13	0.15	_	07/23/07	- , -, -	METHOD	EPA 7471A
Molybdenum	ND U.13	0.020		07/19/07	- , -, -	EPA 3050B	EPA 6010B
Nickel	40	0.25		07/19/07		EPA 3050B	EPA 6010B
Selenium	40 ND	0.25	_	07/19/07		EPA 3050B EPA 3050B	EPA 6010B
Silver	ND ND	0.50	_	07/19/07	- , -, -	EPA 3050B EPA 3050B	EPA 6010B EPA 6010B
Thallium	ND	0.25		07/19/07		EPA 3050B EPA 3050B	EPA 6010B
			_	- , -, -			
Vanadium Zinc	39 46	0.25 1.0	-	07/19/07 07/19/07	- , -, -	EPA 3050B EPA 3050B	EPA 6010B EPA 6010B



		Califor	nia Title 26 M	fetals	
Lab #:	196066		Project#:	001-09567-01	
Client:	LFR Levine Fric	cke	Location:	Hanson Radum	
Field ID:	SS-31(A)-10.5		Basis:	as received	
Lab ID:	196066-008		Diln Fac:	1.000	
Matrix:	Soil		Sampled:	07/18/07	
Units:	mg/Kg		Received:	07/19/07	
Analyte	Result	RL	Batch# Prepared		Analysis
Antimony	1.6	0.50	127437 07/19/07	07/23/07 EPA 3050B	EPA 6010B
Arsenic	5.5	0.25	127437 07/19/07	07/20/07 EPA 3050B	EPA 6010B
Barium	170	0.25	127437 07/19/07	07/20/07 EPA 3050B	EPA 6010B
Beryllium	0.48	0.10	127437 07/19/07	07/20/07 EPA 3050B	EPA 6010B
Cadmium	ND	0.25	127437 07/19/07	07/20/07 EPA 3050B	EPA 6010B
Chromium	72	0.25	127437 07/19/07	07/20/07 EPA 3050B	EPA 6010B
Cobalt	15	0.25	127437 07/19/07	07/20/07 EPA 3050B	EPA 6010B
Copper	46	0.25	127437 07/19/07	07/20/07 EPA 3050B	EPA 6010B
Lead	10	0.15	127437 07/19/07	07/20/07 EPA 3050B	EPA 6010B
Mercury	0.055	0.020	127507 07/23/07	07/23/07 METHOD	EPA 7471A
Molybdenum	0.41	0.25	127437 07/19/07	07/23/07 EPA 3050B	EPA 6010B
Nickel	100	0.25	127437 07/19/07	07/20/07 EPA 3050B	EPA 6010B
Selenium	ND	0.50	127437 07/19/07	07/20/07 EPA 3050B	EPA 6010B
Silver	ND	0.25	127437 07/19/07	07/20/07 EPA 3050B	EPA 6010B
Thallium	ND	0.50	127437 07/19/07	07/20/07 EPA 3050B	EPA 6010B
Vanadium	35	0.25	127437 07/19/07	07/20/07 EPA 3050B	EPA 6010B
Zinc	70	1.0	127437 07/19/07	07/20/07 EPA 3050B	EPA 6010B



	California Title 26 Metals					
Lab #:	196066	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 3050B			
Project#:	001-09567-01	Analysis:	EPA 6010B			
Type:	BLANK	Diln Fac:	1.000			
Lab ID:	QC397087	Batch#:	127437			
Matrix:	Soil	Prepared:	07/19/07			
Units:	mg/Kg	Analyzed:	07/20/07			
Basis:	as received					

Analyte	Result	RL	
Antimony	ND	0.50	
Arsenic	ND	0.25	
Barium	ND	0.25	
Beryllium	ND	0.10	
Cadmium	ND	0.25	
Chromium	ND	0.25	
Cobalt	ND	0.25	
Copper	ND	0.25	
Lead	ND	0.15	
Molybdenum	ND	0.25	
Nickel	ND	0.25	
Selenium	ND	0.50	
Silver	ND	0.25	
Thallium	ND	0.50	
Vanadium	ND	0.25	
Zinc	ND	1.0	



California Title 26 Metals					
Lab #: Client: Project#:	196066 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 3050B EPA 6010B		
Matrix: Units: Basis: Diln Fac:	Soil mg/Kg as received 1.000	Batch#: Prepared: Analyzed:	127437 07/19/07 07/20/07		

Type: BS	Lab ID:	QC3970	88	
Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	98.52	99	80-120
Arsenic	50.00	48.81	98	80-120
Barium	100.0	97.46	97	80-120
Beryllium	2.500	2.537	101	80-120
Cadmium	10.00	9.926	99	80-120
Chromium	100.0	94.68	95	80-120
Cobalt	25.00	23.33	93	80-120
Copper	12.50	11.71	94	80-120
Lead	100.0	95.09	95	80-120
Molybdenum	20.00	20.14	101	80-120
Nickel	25.00	23.60	94	80-120
Selenium	50.00	49.81	100	80-120
Silver	10.00	9.384	94	80-120
Thallium	50.00	48.48	97	80-120
Vanadium	25.00	23.82	95	80-120
Zinc	25.00	24.25	97	80-120

Type:	BSD	Lab ID:	QC397	089			
	Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony		100.0	98.48	98	80-120	0	20
Arsenic		50.00	48.73	97	80-120	0	20
Barium		100.0	97.53	98	80-120	0	20
Beryllium		2.500	2.549	102	80-120	0	20
Cadmium		10.00	9.973	100	80-120	0	20
Chromium		100.0	95.13	95	80-120	0	20
Cobalt		25.00	23.35	93	80-120	0	20
Copper		12.50	11.77	94	80-120	0	20
Lead		100.0	95.52	96	80-120	0	20
Molybdenum		20.00	20.31	102	80-120	1	20
Nickel		25.00	23.61	94	80-120	0	20
Selenium		50.00	49.69	99	80-120	0	20
Silver		10.00	9.388	94	80-120	0	20
Thallium		50.00	48.21	96	80-120	1	20
Vanadium		25.00	23.93	96	80-120	0	20
Zinc		25.00	24.46	98	80-120	1	20



California Title 26 Metals					
Lab #:	196066	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3050B		
Project#:	001-09567-01	Analysis:	EPA 6010B		
Field ID:	ZZZZZZZZZZ	Batch#:	127437		
MSS Lab ID:	196071-001	Sampled:	07/17/07		
Matrix:	Soil	Received:	07/19/07		
Units:	mg/Kg	Prepared:	07/19/07		
Basis:	as received	Analyzed:	07/20/07		
Diln Fac:	1.000	-			

Туре:	MS	Lab ID:	QC397090		
Analyte	e MSS Resul	t Spiked	Result		mits
Antimony	<0.02	455 99.01	96.84	98 1-	129
Arsenic	0.12	49 49.50	48.42	98 72	-120
Barium	2.48	4 99.01	98.97	97 49	-138
Beryllium	4.81	8 2.475	7.589	112 80	-120
Cadmium	1,062	9.901	1,039 >LR	-233 NM 72	-120
Chromium	1,630	99.01	1,733 >LR	104 NM 63	-122
Cobalt	1.63	3 24.75	25.77	98 61	-120
Copper	3,152	12.38	3,154 >LR	16 NM 59	-137
Lead	86.85	99.01	186.3	100 55	-122
Molybdenum	4.90	8 19.80	24.63		-120
Nicĥel	1,192	24.75	1,214 >LR	88 NM 45	-139
Selenium	0.20	42 49.50	49.17	99 73	-120
Silver	0.47	76 9.901	10.04	97 53	-120
Thallium	0.21	31 49.50	46.45	93 64	-120
Vanadium	<0.01	889 24.75	20.30	82 55	-139
Zinc	1,941	24.75	1,917 >LR	-98 NM 49	-140

Туре:	MSD	La	ab ID:	QC397091			
A	nalyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony		98.04	95.4		1-129	0	23
Arsenic		49.02	47.7	4 97	72-120	0	20
Barium		98.04	96.0	95	49-138	2	23
Beryllium		2.451	7.3	104	80-120	3	20
Cadmium		9.804	1,019 >	LR -445 NM	72-120	NC	20
Chromium		98.04	1,679 >	LR 50 NM	63-122	NC	20
Cobalt		24.51	25.2	23 96	61-120	1	23
Copper		12.25	3,086 >	LR -543 NM	59-137	NC	20
Lead		98.04	182.0	97	55-122	2	26
Molybdenum		19.61	24.2	20 98	66-120	1	20
Nickel		24.51	1,176 >	LR -63 NM	45-139	NC	26
Selenium		49.02	48.4	8 98	73-120	0	20
Silver		9.804	9.8	95	53-120	1	22
Thallium		49.02	45.7	6 93	64-120	1	20
Vanadium		24.51	19.8	84 81	55-139	1	20
Zinc		24.51		-321 NM	49-140	NC	23

NC= Not Calculated NM= Not Meaningful: Sample concentration > 4X spike concentration >LR= Response exceeds instrument's linear range RPD= Relative Percent Difference Page 1 of 1



California Title 26 Metals					
Lab #:	196066	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	METHOD		
Project#:	001-09567-01	Analysis:	EPA 7471A		
Analyte:	Mercury	Basis:	as received		
Type:	BLANK	Diln Fac:	1.000		
Lab ID:	QC397433	Batch#:	127507		
Matrix:	Soil	Prepared:	07/23/07		
Units:	mg/Kg	Analyzed:	07/23/07		
Result	RL				

Result	RL	
ND	0.020	

ND= Not Detected RL= Reporting Limit Page 1 of 1



California Title 26 Metals					
Lab #:	196066	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	METHOD		
Project#:	001-09567-01	Analysis:	EPA 7471A		
Analyte:	Mercury	Diln Fac:	1.000		
Matrix:	Soil	Batch#:	127507		
Units:	mg/Kg	Prepared:	07/23/07		
Basis:	as received	Analyzed:	07/23/07		

Туре	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC397434	0.5000	0.5220	104	80-120		
BSD	QC397435	0.5000	0.5080	102	80-120	3	20



QC397438

MSD

Lab #:	196066	ornia Title 26 M		on Radum			
Client:					1		
	LFR Levine Fricke	Prep:	METH	OD			
Project#:	001-09567-01	Analysis:	EPA	7471A			
Analyte:	Mercury	Diln Fac:	1.00	0			
Field ID:	ZZZZZZZZZ	Batch#:	1275	07			
MSS Lab ID:	196050-001	Sampled:	07/1	8/07			
Matrix:	Soil	Received:	07/1	8/07			
Units:	mg/Kg	Prepared:	07/2	3/07			
Basis:	as received	Analyzed:	07/2	3/07			
Type Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS 0C397437	<0.005263	0.4098	0.4295	105	67-143		

0.4032

0.4419

110

23

67-143 4



LFR Levine Fricke	Project : 001-09567-01
1900 Powell Street	Location : Hanson Radum
Emeryville, CA 94608	Level : II

<u>Sample ID</u>	<u>Lab ID</u>
SS-31(A)-40.5	196103-001
SS-31(A)-50.5	196103-002
SS-31(A)-52.5	196103-003
SS-31(A)-60.5	196103-004
SS-31(A)-65.5	196103-005
SS-31(A)-GGW	196103-006
SS-31(B)-5.5	196103-007
SS-31(B)-10.5	196103-008
SS-31(B)-15.5	196103-009
SS-31(B)-20.5	196103-010
SS-31(B)-25.5	196103-011
SS-31(B)-30.5	196103-012
SS-31(B)-40	196103-013
SS-31(B)-50	196103-014
SS-31(B)-60.5	196103-015

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: Project Manager

Signature:

Operations Manager

Date: <u>07/30/200</u>7

Date: 07/30/2007

NELAP # 01107CA

Page 1 of ____



CASE NARRATIVE

Laboratory number:196103Client:LFR Levine FrickeProject:001-09567-01Location:Hanson RadumRequest Date:07/20/07Samples Received:07/20/07

This hardcopy data package contains sample and QC results for thirteen soil samples and one water sample, requested for the above referenced project on 07/20/07. The samples were received cold and intact. All data were e-mailed to Katrin Schliewen on 07/27/07.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Water:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Water:

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Soil:

No analytical problems were encountered.



		Total	Volatil	e Hydrocarbo	ons
Lab #: Client:	196103 LFR Levine Fr	icke		Location: Prep:	Hanson Radum EPA 5030B
Project#:	001-09567-01	ICKE		Analysis:	EPA 8015B
Matrix:	Soil			Diln Fac:	1.000
Units:	mg/Kg			Sampled	07/19/07
Basis:	as received			Received:	07/20/07
				Deteb#1	1 2 7 4 5 1
Field ID: Type:	SS-31(A)-40.5 SAMPLE			Batch#: Analyzed:	127451 07/20/07
Lab ID:	196103-001			maryzea	07720707
370			Degult	T	ат.
Ana Gasoline C7-C12		ND	Result	r	2L 1.0
		0.DEC	T		
Trifluorotoluer	ogate ne (FID)	%REC 101	Limits 70-132		
Bromofluorobenz		101	66-138		
Field ID:	SS-31(A)-50.5			Batch#:	127451
Type:	SAMPLE			Analyzed:	07/20/07
Lab ID:	196103-002				
Ana	lyte		Result	F	RL
Gasoline C7-C12	2	ND)		0.97
	ogate	%REC			
Trifluorotoluer	ne (FID)	99	70-132		
	ne (FID)				
Trifluorotoluer	ne (FID)	99	70-132		
Trifluorotoluer Bromofluorobenz	ne (FID) zene (FID)	99	70-132	Dot ob# :	107451
Trifluorotoluer Bromofluorobenz Field ID:	ne (FID) zene (FID) SS-31(A)-52.5	99	70-132	Batch#: Analyzed:	127451 07/20/07
Trifluorotoluer Bromofluorobenz	ne (FID) zene (FID)	99	70-132	Batch#: Analyzed:	127451 07/20/07
Trifluorotoluer Bromofluorobenz Field ID: Type: Lab ID:	ne (FID) zene (FID) SS-31(A)-52.5 SAMPLE 196103-003	99 104	70-132 66-138	Analyzed:	07/20/07
Trifluorotoluer Bromofluorobenz Field ID: Type:	ne (FID) zene (FID) SS-31(A)-52.5 SAMPLE 196103-003 Lyte	99 104	70-132 66-138 Result	Analyzed:	
Trifluorotoluer Bromofluorobenz Field ID: Type: Lab ID: Ana Gasoline C7-C12	ne (FID) zene (FID) SS-31(A)-52.5 SAMPLE 196103-003 Lyte 2	99 104 ND	70-132 66-138 Result	Analyzed:	07/20/07 RL
Trifluorotoluer Bromofluorobenz Field ID: Type: Lab ID: Ana	ne (FID) zene (FID) SS-31(A)-52.5 SAMPLE 196103-003 Lyte 2 Sgate	99 104	70-132 66-138 Result	Analyzed:	07/20/07 RL
Trifluorotoluer Bromofluorobenz Field ID: Type: Lab ID: Gasoline C7-C12	ne (FID) zene (FID) SS-31(A)-52.5 SAMPLE 196103-003 Lyte 2 Dgate ne (FID)	99 104 ND %REC	70-132 66-138 Result	Analyzed:	07/20/07 RL
Trifluorotoluer Bromofluorobenz Field ID: Type: Lab ID: Gasoline C7-C12 Surro Trifluorotoluer	ne (FID) zene (FID) SS-31(A)-52.5 SAMPLE 196103-003 Lyte 2 Dgate ne (FID)	99 104 NE %REC 87	70-132 66-138 Result	Analyzed:	07/20/07 RL
Trifluorotoluer Bromofluorobenz Field ID: Type: Lab ID: Gasoline C7-C12 Trifluorotoluer Bromofluorobenz	ne (FID) zene (FID) SS-31(A)-52.5 SAMPLE 196103-003 Lyte 2 Dgate ne (FID)	99 104 NE %REC 87	70-132 66-138 Result	Analyzed:	07/20/07 RL 0.99
Trifluorotoluer Bromofluorobenz Field ID: Type: Lab ID: Casoline C7-C12 Trifluorotoluer Bromofluorobenz Field ID:	ne (FID) zene (FID) SS-31(A)-52.5 SAMPLE 196103-003 Lyte 2 Dgate ne (FID) zene (FID) SS-31(A)-60.5	99 104 NE %REC 87	70-132 66-138 Result	Analyzed: F Batch#:	07/20/07 RL 0.99 127451
Trifluorotoluer Bromofluorobenz Field ID: Type: Lab ID: Gasoline C7-C12 Trifluorotoluer Bromofluorobenz Field ID: Type:	ne (FID) zene (FID) SS-31(A)-52.5 SAMPLE 196103-003 Lyte 2 Dgate ne (FID) zene (FID) SS-31(A)-60.5 SAMPLE	99 104 NE %REC 87	70-132 66-138 Result	Analyzed:	07/20/07 RL 0.99
Trifluorotoluer Bromofluorobenz Field ID: Type: Lab ID: Casoline C7-C12 Trifluorotoluer Bromofluorobenz Field ID:	ne (FID) zene (FID) SS-31(A)-52.5 SAMPLE 196103-003 Lyte 2 Dgate ne (FID) zene (FID) SS-31(A)-60.5	99 104 NE %REC 87	70-132 66-138 Result	Analyzed: F Batch#:	07/20/07 RL 0.99 127451
Trifluorotoluer Bromofluorobenz Field ID: Type: Lab ID: Gasoline C7-C12 Surro Trifluorotoluer Bromofluorobenz Field ID: Type: Lab ID: Ana	ne (FID) zene (FID) SS-31(A)-52.5 SAMPLE 196103-003 Lyte 2 Dgate ne (FID) zene (FID) SS-31(A)-60.5 SAMPLE 196103-004 Lyte	99 104 ND %REC 87 95	70-132 66-138 Result 0 Limits 70-132 66-138 Result	Analyzed: F Batch#: Analyzed:	07/20/07 EL 127451 07/20/07 EL
Trifluorotoluer Bromofluorobenz Field ID: Type: Lab ID: Gasoline C7-C12 Trifluorotoluer Bromofluorobenz Field ID: Type: Lab ID:	ne (FID) zene (FID) SS-31(A)-52.5 SAMPLE 196103-003 Lyte 2 Dgate ne (FID) zene (FID) SS-31(A)-60.5 SAMPLE 196103-004 Lyte	99 104 ND %REC 87 95	70-132 66-138 Result 0 Limits 70-132 66-138 Result	Analyzed: F Batch#: Analyzed:	07/20/07 EL 0.99 127451 07/20/07
Trifluorotoluer Bromofluorobenz Field ID: Type: Lab ID: Casoline C7-C12 Trifluorotoluer Bromofluorobenz Field ID: Type: Lab ID: Casoline C7-C12 Surro	ne (FID) zene (FID) SS-31(A)-52.5 SAMPLE 196103-003 Lyte 2 Dgate ne (FID) zene (FID) SS-31(A)-60.5 SAMPLE 196103-004 Lyte 2 Dgate	99 104 ND %REC 87 95 ND %REC	70-132 66-138 Result 70-132 66-138 Result Limits	Analyzed: F Batch#: Analyzed:	07/20/07 EL 127451 07/20/07 EL
Trifluorotoluer Bromofluorobenz Field ID: Type: Lab ID: Gasoline C7-C12 Trifluorotoluer Bromofluorobenz Field ID: Type: Lab ID: Maa Gasoline C7-C12	ne (FID) zene (FID) SS-31(A)-52.5 SAMPLE 196103-003 Lyte 2 Dgate ne (FID) zene (FID) SS-31(A)-60.5 SAMPLE 196103-004 Lyte 2 Dgate ne (FID)	99 104 ND %REC 87 95	70-132 66-138 Result 70-132 66-138 Result	Analyzed: F Batch#: Analyzed:	07/20/07 EL 127451 07/20/07 EL



	Total	Volatil	e Hydrocarbo	ons
Lab #: 196103 Client: LFR Levine F	riako		Location: Prep:	Hanson Radum EPA 5030B
Project#: 001-09567-01	LICKE		Analysis:	EPA 8015B
Matrix: Soil			Diln Fac:	1.000
Units: mg/Kg			Sampled:	07/19/07
Basis: as received			Received:	07/20/07
Field ID: SS-31(B)-5.5 Type: SAMPLE			Batch#: Analyzed:	127451 07/21/07
Lab ID: 196103-007				
Analyte		Result	R	T.
Gasoline C7-C12	NE		K	1.0
	A			
Surrogate	%REC 92	Limits 70-132		
Trifluorotoluene (FID) Bromofluorobenzene (FID)	92 101	70-132 66-138		
Field ID: SS-31(B)-10.5 Type: SAMPLE Lab ID: 196103-008			Batch#: Analyzed:	127451 07/21/07
Analyte		Result	R	L
Gasoline C7-C12	NE)		0.99
				0.99
Surrogate	NL %REC 100			0.99
	%REC	Limits		0.99
Surrogate Trifluorotoluene (FID)	%REC 100	Limits 70-132	Batch#: Analyzed:	0.99 127451 07/21/07
SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-15.5Type:Lab ID:196103-009Analyte	%REC 100 106	Limits 70-132 66-138 Result	Analyzed:	127451 07/21/07 L
SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-15.5Type:SAMPLELab ID:196103-009	%REC 100 106	Limits 70-132 66-138 Result	Analyzed:	127451 07/21/07
Surrogate Trifluorotoluene (FID) Bromofluorobenzene (FID) Field ID: SS-31(B)-15.5 Type: SAMPLE Lab ID: 196103-009 Analyte Gasoline C7-C12 Surrogate	%REC 100 106	Limits 70-132 66-138 Result	Analyzed:	127451 07/21/07 L
SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-15.5Type:SAMPLELab ID:196103-009AnalyteGasoline C7-C12SurrogateTrifluorotoluene (FID)	%REC 100 106 NI NI %REC 98	Limits 70-132 66-138 Result	Analyzed:	127451 07/21/07 L
Surrogate Trifluorotoluene (FID) Bromofluorobenzene (FID) Field ID: SS-31(B)-15.5 Type: SAMPLE Lab ID: 196103-009 Analyte Gasoline C7-C12 Surrogate	%REC 100 106 NI %REC	Limits 70-132 66-138 Result	Analyzed:	127451 07/21/07 L
SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-15.5Type:SAMPLELab ID:196103-009AnalyteGasoline C7-C12SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-20.5Type:SAMPLELab ID:196103-010	%REC 100 106	Limits 70-132 66-138 Result 70-132 66-138	Analyzed: R Batch#: Analyzed:	127451 07/21/07 L 0.96 127451 07/21/07
SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-15.5Type:SAMPLELab ID:196103-009AnalyteGasoline C7-C12SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-20.5Type:SAMPLELab ID:196103-010	%REC 100 106 NI %REC 98 106	Limits 70-132 66-138 Result D Limits 70-132 66-138 Result	Analyzed: R Batch#: Analyzed:	127451 07/21/07 L 0.96 127451 07/21/07 L
SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-15.5Type:SAMPLELab ID:196103-009AnalyteGasoline C7-C12SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-20.5Type:SAMPLELab ID:196103-010	%REC 100 106	Limits 70-132 66-138 Result D Limits 70-132 66-138 Result	Analyzed: R Batch#: Analyzed:	127451 07/21/07 L 0.96 127451 07/21/07
SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-15.5Type:SAMPLELab ID:196103-009AnalyteGasoline C7-C12SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-20.5Type:SAMPLELab ID:196103-010	%REC 100 106 NI %REC 98 106	Limits 70-132 66-138 Result D Limits 70-132 66-138 Result	Analyzed: R Batch#: Analyzed:	127451 07/21/07 L 0.96 127451 07/21/07 L



	Total	Volatil	e Hydrocarbo	ons
Lab #: 196103 Client: LFR Levine Fr	i ako		Location: Prep:	Hanson Radum EPA 5030B
Project#: 001-09567-01	ICKe		Analysis:	EPA 8015B
Matrix: Soil			Diln Fac:	1.000
Units: mg/Kg			Sampled:	07/19/07
Basis: as received			Received:	07/20/07
Field ID: SS-31(B)-25.5 Type: SAMPLE Lab ID: 196103-011			Batch#: Analyzed:	127451 07/21/07
Analyte	NID	Result	R	
Gasoline C7-C12	ND)		0.97
Surrogate	%REC	Limits		
Trifluorotoluene (FID)	97	70-132		
Bromofluorobenzene (FID)	105	66-138		
Field ID: SS-31(B)-30.5 Type: SAMPLE Lab ID: 196103-012			Batch#: Analyzed:	127518 07/23/07
Analyte		Result	R	
Gasoline C7-C12	ND)		0.97
	%REC	Limits		· · · ·
Surrogate Trifluorotoluene (FID)	%REC 102	70-132		
Surrogate				
Surrogate Trifluorotoluene (FID)	102	70-132	Batch#: Analyzed:	127518 07/23/07
SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-40Type:SAMPLELab ID:196103-013Analyte	102 107	70-132 66-138 Result		127518 07/23/07 L
SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-40Type:SAMPLELab ID:196103-013	102 107	70-132 66-138 Result	Analyzed:	127518 07/23/07
SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-40Type:SAMPLELab ID:196103-013AnalyteGasoline C7-C12Surrogate	102 107	70-132 66-138 Result	Analyzed:	127518 07/23/07 L
SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-40Type:SAMPLELab ID:196103-013AnalyteGasoline C7-C12SurrogateTrifluorotoluene (FID)	102 107 ND %REC 114	70-132 66-138 Result	Analyzed:	127518 07/23/07 L
Surrogate Trifluorotoluene (FID) Bromofluorobenzene (FID) Field ID: SS-31(B)-40 Type: SAMPLE Lab ID: 196103-013 Analyte Gasoline C7-C12 Surrogate	102 107 NE %REC	70-132 66-138 Result	Analyzed:	127518 07/23/07 L
SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-40Type:SAMPLELab ID:196103-013AnalyteGasoline C7-C12SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-50Type:SAMPLELab ID:196103-014	102 107 NE %REC 114 118	70-132 66-138 Result 70-132 66-138	Analyzed: R Batch#: Analyzed:	127518 07/23/07 L 1.0 127518 07/23/07
SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-40Type:SAMPLELab ID:196103-013AnalyteGasoline C7-C12SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-50Type:SAMPLELab ID:196103-014Analyte	102 107 NE %REC 114 118	70-132 66-138 Result 70-132 66-138 Result	Analyzed: R Batch#:	127518 07/23/07 L 1.0 127518 07/23/07 L
SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-40Type:SAMPLELab ID:196103-013AnalyteGasoline C7-C12SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-50Type:SAMPLELab ID:196103-014	102 107 NE %REC 114 118	70-132 66-138 Result 70-132 66-138 Result	Analyzed: R Batch#: Analyzed:	127518 07/23/07 L 1.0 127518 07/23/07
SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-40Type:SAMPLELab ID:196103-013AnalyteGasoline C7-C12SurrogateTrifluorotoluene (FID)Bromofluorobenzene (FID)Bromofluorobenzene (FID)Field ID:SS-31(B)-50Type:SAMPLELab ID:196103-014Analyte	102 107 NE %REC 114 118	70-132 66-138 Result 70-132 66-138 Result	Analyzed: R Batch#: Analyzed:	127518 07/23/07 L 1.0 127518 07/23/07 L



		Total	Volatil	.e Hydrocar	bons	
Lab #: Client:	196103 LFR Levine Fr	icke		Location: Prep:		Hanson Radum EPA 5030B
Project#: Matrix:	<u>001-09567-01</u> Soil			Analysis: Diln Fac:		EPA 8015B 1.000
Units: Basis:	mg/Kg as received			Sampled: Received:		07/19/07 07/20/07
DASIS.	as received			Received.		07/20/07
Field ID: Type: Lab ID:	SS-31(B)-60.5 SAMPLE 196103-015			Batch#: Analyzed:		127518 07/23/07
Ana	lyte		Result		RL	
Gasoline C7-C12	2	ND			0.	99
Surro	ogate	%REC	Limits			
Trifluorotoluer Bromofluoroben:	ne (FID)	100 100	70-132 66-138			
Type: Lab ID:	BLANK QC397138			Batch#: Analyzed:		127451 07/20/07
Ana Gasoline C7-C12	lyte	ND	Result		RL	0
					1.	
Trifluorotolue	ogate ne (FID)	%REC 95	Limits 70-132			
Bromofluoroben:	zene (FID)	103	66-138			
Type: Lab ID:	BLANK QC397460			Batch#: Analyzed:		127518 07/23/07
Ana	lyte		Result		RL	
Gasoline C7-C12		ND				20
Trifluorotolue		%REC 92	Limits 70-132			
Bromofluorobenz	zene (FID)	93	66-138			



Total Volatile Hydrocarbons						
Lab #:	196103	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 5030B			
Project#:	001-09567-01	Analysis:	EPA 8015B			
Туре:	LCS	Basis:	as received			
Lab ID:	QC397139	Diln Fac:	1.000			
Matrix:	Soil	Batch#:	127451			
Units:	mg/Kg	Analyzed:	07/20/07			

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	10.59	106	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	117	70-132
Bromofluorobenzene (FID)	109	66-138



Total Volatile Hydrocarbons						
Lab #:	196103	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 5030B			
Project#:	001-09567-01	Analysis:	EPA 8015B			
Field ID:	ZZZZZZZZZ	Diln Fac:	1.000			
MSS Lab ID:	196079-001	Batch#:	127451			
Matrix:	Soil	Sampled:	07/19/07			
Units:	mg/Kg	Received:	07/19/07			
Basis:	as received	Analyzed:	07/20/07			

Type:	MS			Lab ID:	Q	C397140		
A	nalyte	MSS Re	sult	Spike	ed	Result	%REC	Limits
Gasoline C7	'-C12	<0	.07274	9	.709	10.33	106	36-120
S	Surrogate	%REC	Limits					
Trifluoroto	oluene (FID)	113	70-132					
Bromofluoro	benzene (FID)	107	66-138					
Type:	MSD			Lab ID:	Q	C397141		
	Analyte		Spiked		Result	%REC	Limits	RPD Lim
Gasoline C7	'-C12		9.90	1	9.62	6 97	36-120	9 29

Surrogate	%REC	Limits	
Trifluorotoluene (FID)	110	70-132	
Bromofluorobenzene (FID)	105	66-138	



Total Volatile Hydrocarbons						
Lab #:	196103	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 5030B			
Project#:	001-09567-01	Analysis:	EPA 8015B			
Туре:	LCS	Basis:	as received			
Lab ID:	QC397462	Diln Fac:	1.000			
Matrix:	Soil	Batch#:	127518			
Units:	mg/Kg	Analyzed:	07/23/07			

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.582	96	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	128	70-132
Bromofluorobenzene (FID)	130	66-138



Total Volatile Hydrocarbons						
Lab #:	196103	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 5030B			
Project#:	001-09567-01	Analysis:	EPA 8015B			
Field ID:	ZZZZZZZZZ	Diln Fac:	1.000			
MSS Lab ID:	196124-006	Batch#:	127518			
Matrix:	Soil	Sampled:	07/20/07			
Units:	mg/Kg	Received:	07/20/07			
Basis:	as received	Analyzed:	07/23/07			

Type:	MS			Lab ID:	QC	2397463		
	Analyte	MSS Re	sult	Spike	ed	Result	%REC	Limits
Gasoline	C7-C12	C	.02811	2.	000	1.469	72	36-120
	Surrogate	%REC	Limits					
Trifluoro	otoluene (FID)	96	70-132					
Bromofluc	probenzene (FID)	98	66-138					
Туре:	MSD			Lab ID:	QC	2397464		
	Analyte		Spiked		Result	%REC	Limits	RPD Lim
Gasoline	C7-C12		2.07	ō	1.488	3 70	36-120	2 29
	Surrogate	%REC	Limits					
Trifluoro	otoluene (FID)	102	70-132					

100

66-138

Bromofluorobenzene (FID)



	1	otal 1	Extracta	ble Hydrocarbo	ns	
Lab #:	196103			Location:	Hanson Radum	
Client:	LFR Levine Fr	icke		Prep:	EPA 3520C	
Project#:	001-09567-01			Analysis:	EPA 8015B	
Field ID:	SS-31(A)-GGW			Batch#:	127482	
Matrix:	Water			Sampled:	07/19/07	
Units:	ug/L			Received:	07/20/07	
Diln Fac:	1.000			Prepared:	07/21/07	
Type: Lab ID:	SAMPLE 196103-006			Analyzed: Cleanup Method:	07/23/07 EPA 3630C	
Ana	lyte		Result	RL		
Diesel C10-C24	Ŀ	NI)	50		
Motor Oil C24-	-C36	NI)	300		
Surr	rogate	%REC	Limits			
Hexacosane		114	61-134			
Type: Lab ID:	BLANK QC397291			Analyzed: Cleanup Method:	07/22/07 EPA 3630C	
	alyte		Result	RL		
Diesel C10-C24	<u> </u>	NI	D	50		
Motor Oil C24-	-C36	NI)	300		
Surr	rogate	%REC	Limits			
Hexacosane		105	61-134			



Total Extractable Hydrocarbons						
Lab #:	196103	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 3520C			
Project#:	001-09567-01	Analysis:	EPA 8015B			
Type:	LCS	Diln Fac:	1.000			
Lab ID:	QC397292	Batch#:	127482			
Matrix:	Water	Prepared:	07/21/07			
Units:	ug/L	Analyzed:	07/22/07			

Cleanup Method: EPA 3630C

Analyte		Spiked	Result	%REC	Limits
Diesel C10-C24	2,500		2,192	88	58-130
Surrogate	%REC	Limits			
Hexacosane	98	61-134			



Total Extractable Hydrocarbons						
Lab #:	196103	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 3520C			
Project#:	001-09567-01	Analysis:	EPA 8015B			
Field ID:	ZZZZZZZZZ	Batch#:	127482			
MSS Lab ID:	196040-002	Sampled:	07/17/07			
Matrix:	Water	Received:	07/17/07			
Units:	ug/L	Prepared:	07/21/07			
Diln Fac:	1.000	Analyzed:	07/23/07			

Type:	MS			Lab ID:	QC397293		
	Analyte	MSS Res	ult	Spiked	Result	%REC	Limits
Diesel C	10-C24	<15	.44	2,500	2,261	90	57-134
	Surrogate	%REC	Limits				
Hexacosa	ne	95	61-134				

Type:	MSD			Lab ID:	Ç	QC397294			
	Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Diesel C	10-C24		2,500		2,318	93	57-134	3	32
	Surrogate	%REC	Limits						
Hexacosa	ne	95	61-134						



	Т	otal E	Extracta	ble Hydrocarbo	
Lab #: Client: Project#:	196103 LFR Levine Fr: 001-09567-01	icke		Location: Prep: Analysis:	Hanson Radum SHAKER TABLE EPA 8015B
Matrix: Units: Basis:	Soil mg/Kg as received			Diln Fac: Sampled: Received:	1.000 07/19/07 07/20/07
Field ID: Type: Lab ID: Batch#:	SS-31(A)-40.5 SAMPLE 196103-001 127476			Prepared: Analyzed: Cleanup Method:	07/20/07 07/23/07 EPA 3630C
Anal	yte		Result	RL	0
Diesel C10-C24 Motor Oil C24-C	236	ND ND		1. 5.	
Surro	gate	%REC	Limits		
Hexacosane	- <u>j</u> ucc	63	40-127		
Field ID: Type: Lab ID: Batch#:	SS-31(A)-50.5 SAMPLE 196103-002 127476			Prepared: Analyzed: Cleanup Method:	07/20/07 07/23/07 EPA 3630C
Anal Diesel C10-C24	.yte	ND	Result	RL	99
Motor Oil C24-C	136	ND		5.	
Surro Hexacosane	ogate	%REC 46	Limits 40-127		
Field ID: Type: Lab ID: Batch#:	SS-31(A)-52.5 SAMPLE 196103-003 127476			Prepared: Analyzed: Cleanup Method:	07/20/07 07/23/07 EPA 3630C
Anal	yte		Result	RL	
Diesel C10-C24 Motor Oil C24-C	136	ND ND		U. 5.	99 0
Surro Hexacosane		%REC 55	Limits 40-127		

H= Heavier hydrocarbons contributed to the quantitation L= Lighter hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard Z= Sample exhibits unknown single peak or peaks ND= Not Detected RL= Reporting Limit Page 1 of 5



	Total E	xtractabl	e Hydrocarbor	15
Client: LFH	6103 R Levine Fricke 1-09567-01	P	ocation: rep: nalysis:	Hanson Radum SHAKER TABLE EPA 8015B
	il /Kg received	S	iln Fac: ampled: .eceived:	1.000 07/19/07 07/20/07
Type: SAMI	103-004 476	A C	repared: nalyzed: leanup Method:	07/20/07 07/23/07 EPA 3630C
Analyte Diesel C10-C24	I ND	Result	RL	
Motor Oil C24-C36	ND ND		1.(5.(
Surrogate	%REC	Limits		
Hexacosane	64	40-127		
	31(B)-5.5	P	repared:	07/20/07
Batch#: 1274	103-007 476	A C	nalyzed: leanup Method:	07/23/07
Lab ID: 1963 Batch#: 1274 Analyte	103-007 476	A C Result	nalyzed: leanup Method: RL	07/23/07 EPA 3630C
Lab ID: 1963 Batch#: 1274	103-007 476	A C	nalyzed: leanup Method: RL	07/23/07 EPA 3630C
Lab ID: 1963 Batch#: 1274 Malyte Diesel C10-C24 Motor Oil C24-C36	103-007 476	А С <u>Result</u> 2.6 н ү	nalyzed: leanup Method: <u>RL</u> Z 0.9	07/23/07 EPA 3630C
Lab ID: 1963 Batch#: 1274 Analyte Diesel C10-C24	103-007 476	А С Result 2.6 н Ү 11 н	nalyzed: leanup Method: <u>RL</u> Z 0.9	07/23/07 EPA 3630C
Lab ID: 1963 Batch#: 1274 Diesel C10-C24 Motor Oil C24-C36 Surrogate Hexacosane Field ID: SS-3 Type: SAM Lab ID: 1963 Batch#: 1274	103-007 476 : : : : : : : : : : : : : : : : : : :	A C 2.6 H Y 11 H Limits 40-127 P A	nalyzed: leanup Method: <u>RL</u> Z 0.9	07/23/07 EPA 3630C
Lab ID: 1963 Batch#: 1274 Diesel C10-C24 Motor Oil C24-C36 Surrogate Hexacosane Field ID: SS-3 Type: SAME Lab ID: 1963 Batch#: 1274 Analyte	103-007 476 	A C 2.6 H Y 11 H Limits 40-127 P A C Result	nalyzed: leanup Method: Z 0.9 5.0 repared: nalyzed: leanup Method: RL	07/23/07 EPA 3630C 99 0 07/20/07 07/23/07 EPA 3630C
Lab ID: 1963 Batch#: 1274 Match#: 1274 Diesel C10-C24 Motor Oil C24-C36 Surrogate Hexacosane Field ID: SS-3 Type: SAM Lab ID: 1963 Batch#: 1274 Malyte Diesel C10-C24	103-007 476 	A C 2.6 H Y 11 H Limits 40-127 P A C Result 6.2 H Y	nalyzed: leanup Method: Z 0.9 5.0 repared: nalyzed: leanup Method: RL	07/23/07 EPA 3630C 99 0 07/20/07 07/23/07 EPA 3630C
Lab ID: 1963 Batch#: 1274 Diesel C10-C24 Motor Oil C24-C36 Surrogate Hexacosane Field ID: SS-3 Type: SAME Lab ID: 1963 Batch#: 1274 Analyte	103-007 476 	A C 2.6 H Y 11 H Limits 40-127 P A C Result	nalyzed: leanup Method: Z 0.9 5.0 repared: nalyzed: leanup Method: Z 1.0	07/23/07 EPA 3630C 99 0 07/20/07 07/23/07 EPA 3630C

H= Heavier hydrocarbons contributed to the quantitation L= Lighter hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard Z= Sample exhibits unknown single peak or peaks ND= Not Detected RL= Reporting Limit Page 2 of 5



	T	otal B	Extracta	ble Hydrocarbo	ns
Lab #: Client: Project#:	196103 LFR Levine Fr: 001-09567-01	icke		Location: Prep: Analysis:	Hanson Radum SHAKER TABLE EPA 8015B
Matrix: Units: Basis:	Soil mg/Kg as received			Diln Fac: Sampled: Received:	1.000 07/19/07 07/20/07
Field ID: Type: Lab ID: Batch#:	SS-31(B)-15.5 SAMPLE 196103-009 127476			Prepared: Analyzed: Cleanup Method:	07/20/07 07/23/07 EPA 3630C
Anal Diesel C10-C24 Motor Oil C24-C	-		Result 1.2 Y 6.3 H	RL Z 0. 5.	99 0
Surro Hexacosane	ogate	%REC 46	Limits 40-127		
Field ID: Type: Lab ID: Batch#:	SS-31(B)-20.5 SAMPLE 196103-010 127476			Prepared: Analyzed: Cleanup Method:	07/20/07 07/23/07 EPA 3630C
Anal Diesel C10-C24 Motor Oil C24-C	-	NE	Result 6.4 Y	RL Z 1. 5.	
Surro Hexacosane	gate	%REC 61	Limits 40-127		
Field ID: Type: Lab ID: Batch#:	SS-31(B)-25.5 SAMPLE 196103-011 127476			Prepared: Analyzed: Cleanup Method:	07/20/07 07/24/07 EPA 3630C
Anal Diesel C10-C24	-		Result 27 Y Z	RL	
Motor Oil C24-C		ND %REC	Limits	5.	U
Hexacosane		57	40-127		

H= Heavier hydrocarbons contributed to the quantitation L= Lighter hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard Z= Sample exhibits unknown single peak or peaks ND= Not Detected RL= Reporting Limit Page 3 of 5



	Тс	otal E	Extracta	ble Hydrocarbo	ns
Lab #: Client: Project#:	196103 LFR Levine Fri 001-09567-01	cke		Location: Prep: Analysis:	Hanson Radum SHAKER TABLE EPA 8015B
Matrix: Units: Basis:	Soil mg/Kg as received			Diln Fac: Sampled: Received:	1.000 07/19/07 07/20/07
Field ID: Type: Lab ID: Batch#:	SS-31(B)-30.5 SAMPLE 196103-012 127476			Prepared: Analyzed: Cleanup Method:	07/20/07 07/24/07 EPA 3630C
Ana Diesel C10-C24 Motor Oil C24-0			Result 32 Y Z 5.4 H		
Surre Hexacosane	ogate	%REC 51	Limits 40-127		
Field ID: Type: Lab ID: Batch#:	SS-31(B)-40 SAMPLE 196103-013 127476			Prepared: Analyzed: Cleanup Method:	07/20/07 07/23/07 EPA 3630C
Diesel C10-C24	lyte		Result 21 Y Z		99
Motor Oil C24-0 Surro Hexacosane	C36 Ogate	ND %REC 55		5.	0
Field ID: Type: Lab ID: Batch#:	SS-31(B)-50 SAMPLE 196103-014 127480			Prepared: Analyzed: Cleanup Method:	07/21/07 07/23/07 EPA 3630C
Diesel C10-C24	lyte		Result 17 Y Z		
Motor Oil C24-0 Surre Hexacosane	ogate	%REC 70	160 Y Z Limits 40-127	5.	U

H= Heavier hydrocarbons contributed to the quantitation L= Lighter hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard Z= Sample exhibits unknown single peak or peaks ND= Not Detected RL= Reporting Limit Page 4 of 5



	Т	otal E	xtracta	ble Hydrocarbo	ns
Lab #: Client: Project#:	196103 LFR Levine Fr 001-09567-01	icke		Location: Prep: Analysis: Diln Fac:	Hanson Radum SHAKER TABLE EPA 8015B
Matrix: Units: Basis:	Soil mg/Kg as received			Sampled: Received:	1.000 07/19/07 07/20/07
Field ID: Type: Lab ID: Batch#:	SS-31(B)-60.5 SAMPLE 196103-015 127480			Prepared: Analyzed: Cleanup Method:	07/21/07 07/23/07 EPA 3630C
Anal Diesel C10-C24	yte	1	Result 9.2 Y	RL Z 1.	0
Motor Oil C24-C	36	ND	9.2 1	5.	
Surro	aste	%REC	Limits		
Hexacosane	gale	83	40-127		
Type: Lab ID: Batch#:	BLANK QC397235 127476			Prepared: Analyzed: Cleanup Method:	07/20/07 07/23/07 EPA 3630C
Anal	vte	1	Result	RL	
	1.55				0.0
Diesel C10-C24 Motor Oil C24-C	-	ND ND		0. 5.	
Diesel Cl0-C24 Motor Oil C24-C Surro Hexacosane	36	ND	Limits 40-127	0.	
Motor Oil C24-C	36	ND ND %REC	Limits	0.	0
Motor Oil C24-C Surro Hexacosane Type: Lab ID: Batch#: Anal	BLANK QC397284 127480	ND ND %REC 71	Limits	0. 5. Prepared: Analyzed: Cleanup Method: RL	0 07/21/07 07/23/07 EPA 3630C
Motor Oil C24-C Surro Hexacosane Type: Lab ID: Batch#:	BLANK QC397284 127480	ND ND %REC 71	Limits 40-127	0. 5. Prepared: Analyzed: Cleanup Method: RL	0 07/21/07 07/23/07 EPA 3630C
Motor Oil C24-C Surro Hexacosane Type: Lab ID: Batch#: Anal Diesel C10-C24	BLANK QC397284 127480 yte	ND ND %REC 71	Limits 40-127	0. 5. Prepared: Analyzed: Cleanup Method: RL 0.	0 07/21/07 07/23/07 EPA 3630C

H= Heavier hydrocarbons contributed to the quantitation L= Lighter hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard Z= Sample exhibits unknown single peak or peaks ND= Not Detected RL= Reporting Limit Page 5 of 5



Total Extractable Hydrocarbons					
Lab #:	196103	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	SHAKER TABLE		
Project#:	001-09567-01	Analysis:	EPA 8015B		
Туре:	LCS	Diln Fac:	1.000		
Lab ID:	QC397236	Batch#:	127476		
Matrix:	Soil	Prepared:	07/20/07		
Units:	mg/Kg	Analyzed:	07/22/07		
Basis:	as received				

Cleanup Method: EPA 3630C

Hexacosane

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.78	34.47	69	58-127
Surrogate	%REC Limits			

40-127

65



Total Extractable Hydrocarbons					
		•			
Lab #:	196103	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	SHAKER TABLE		
Project#:	001-09567-01	Analysis:	EPA 8015B		
Field ID:	ZZZZZZZZZ	Batch#:	127476		
MSS Lab ID:	196114-001	Sampled:	07/20/07		
Matrix:	Soil	Received:	07/20/07		
Units:	mg/Kg	Prepared:	07/20/07		
Basis:	as received	Analyzed:	07/22/07		
Diln Fac:	1.000				

Type:	MS			Lab ID:	QC3	97237			
	Analyte	MSS Res	ult	Spiked	1	Result	%REC	Limit	s
Diesel Cl	0-C24	1	.793	50.0)6	48.41	93	29-14	17
	Surrogate	%REC	Limits						
Hexacosan	e	64	40-127						
Type:	MSD			Lab ID:	QC3	97238			
	Analyte		Spiked		Result	%REC	Limits	RPD I	Lim
Diesel Cl	0-C24		50.09		36.79	70	29-147	27 4	16
	Surrogate	%REC	Limits						
Hexacosan	е	69	40-127						



Total Extractable Hydrocarbons					
Lab #:	196103	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	SHAKER TABLE		
Project#:	001-09567-01	Analysis:	EPA 8015B		
Type:	LCS	Diln Fac:	1.000		
Lab ID:	QC397285	Batch#:	127480		
Matrix:	Soil	Prepared:	07/21/07		
Units:	mg/Kg	Analyzed:	07/23/07		
Basis:	as received				

Cleanup Method: EPA 3630C

Hexacosane

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.86	55.39	111	58-127
Surrogate	%REC Limits			

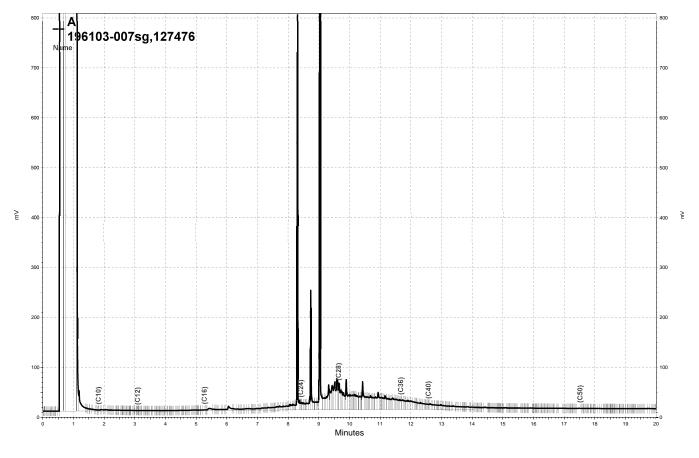
40-127

110

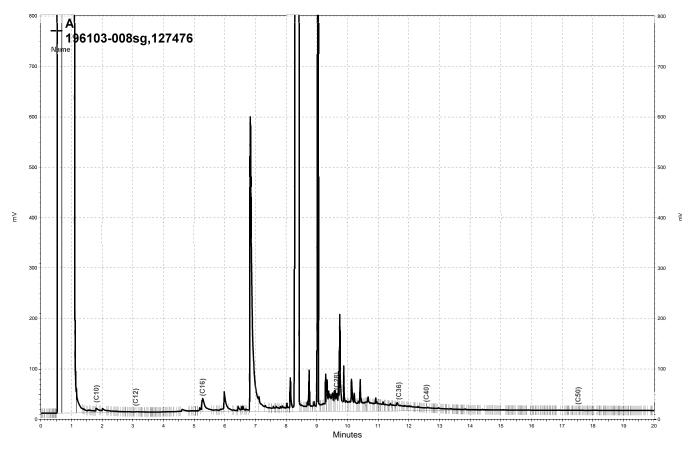


Total Extractable Hydrocarbons					
Lab #:	196103	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	SHAKER TABLE		
Project#:	001-09567-01	Analysis:	EPA 8015B		
Field ID:	ZZZZZZZZZ	Batch#:	127480		
MSS Lab ID:	196130-001	Sampled:	07/19/07		
Matrix:	Soil	Received:	07/20/07		
Units:	mg/Kg	Prepared:	07/21/07		
Basis:	as received	Analyzed:	07/23/07		
Diln Fac:	1.000				

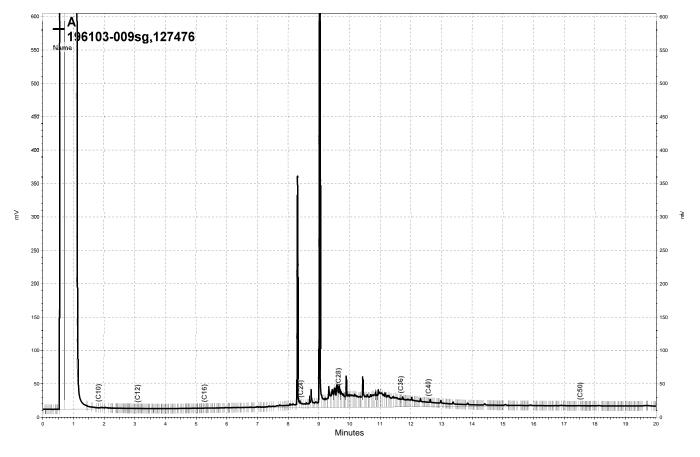
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Analyte		MSS Res	MSS Result		. R	Result		Limi	ts
Diesel C10-C24		6	6.329		1	54.94	97	29-1	47
	Surrogate	%REC	Limits						
Hexacosan	e	101	40-127						
				_					
Туре:	MSD			Lab ID:	QC39	7287			
	Analyte		Spiked		Result	%REC	Limits	RPD 1	Lim
Diesel C10-C24			49.54		61.27	111	29-147	12	46
	Surrogate	%REC	Limits						
Hexacosane		112	40-127						



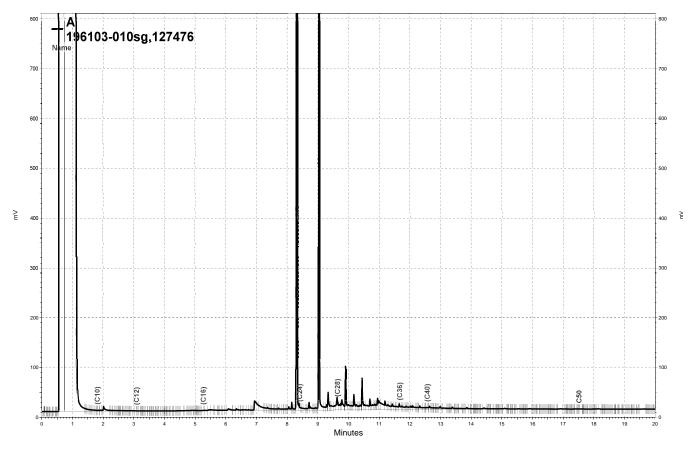
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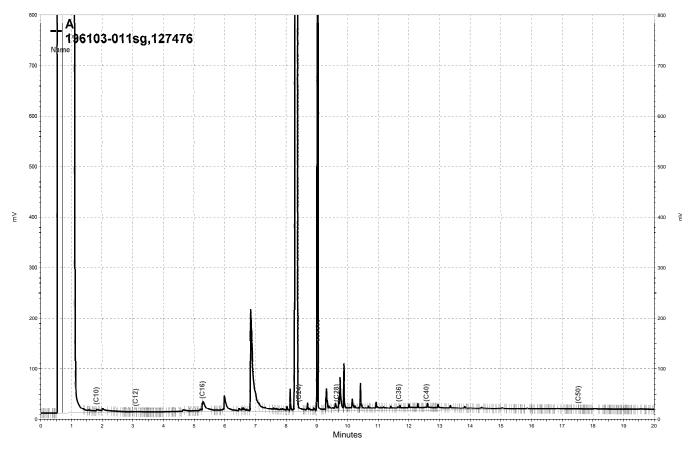
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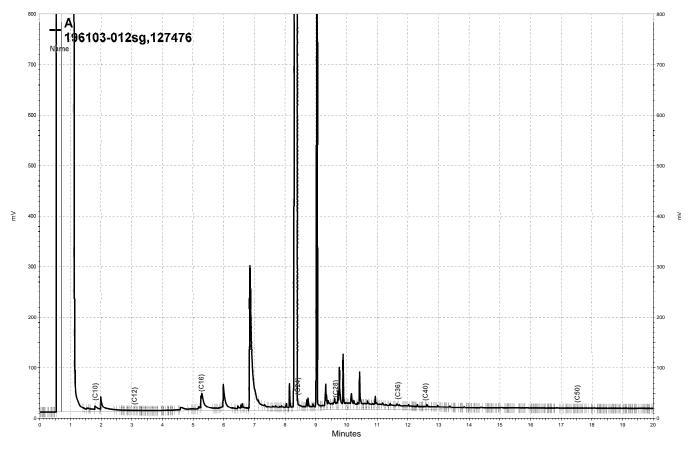
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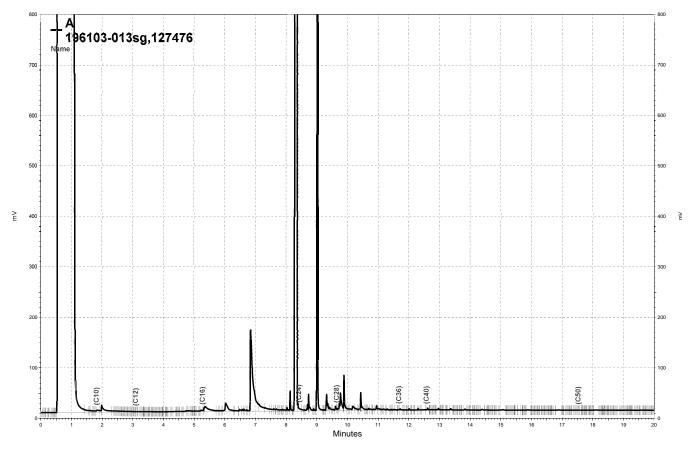
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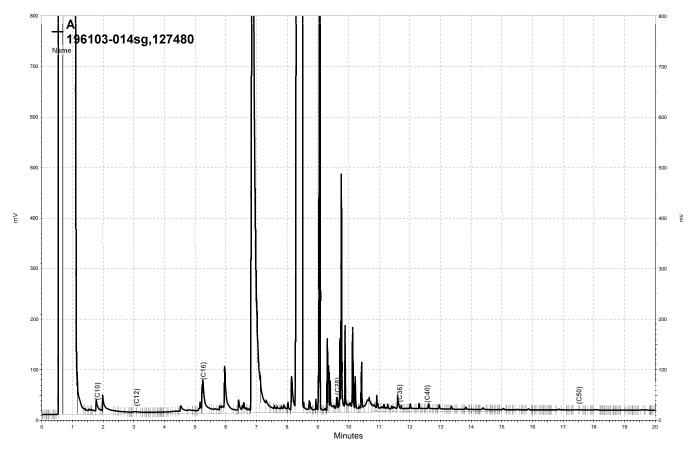
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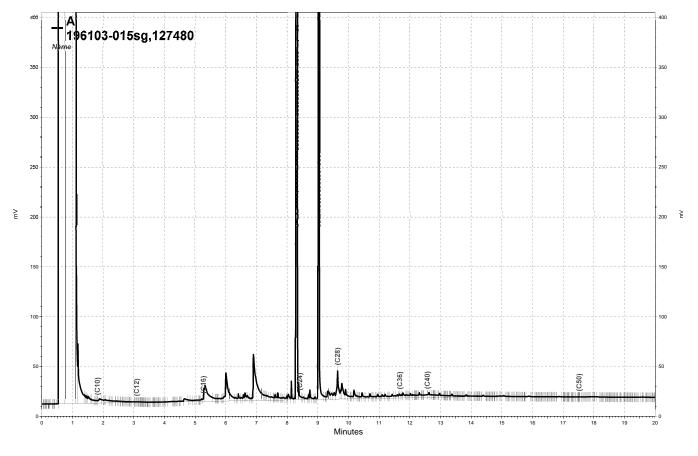
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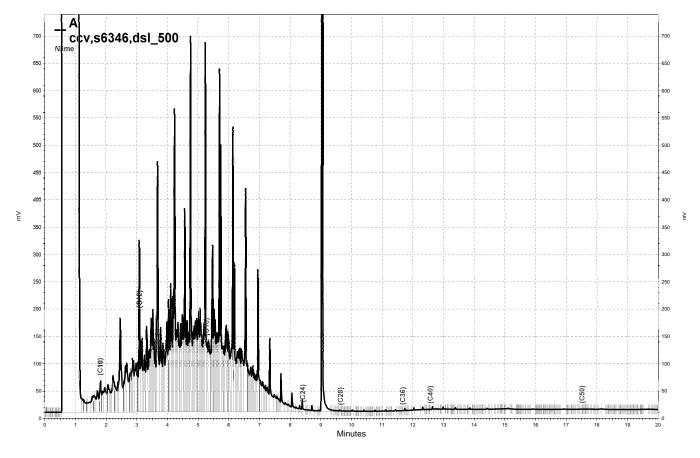
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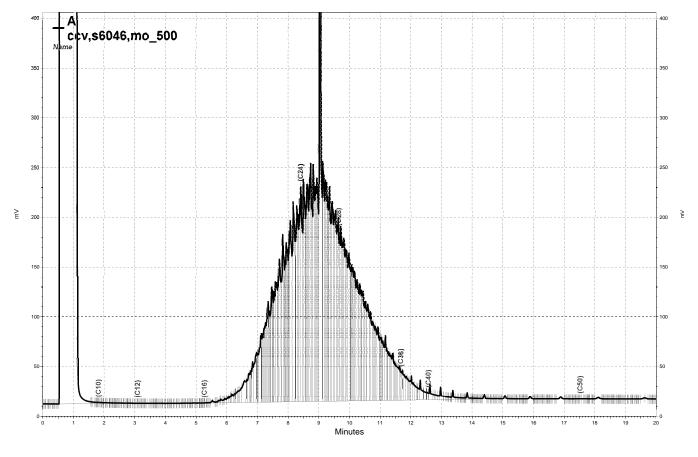
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	Gasoline	by GC/MS	
Lab #: 196103		Location:	Hanson Radum
Client: LFR Levine Frick	Э	Prep:	EPA 5030B
Project#: 001-09567-01		Analysis:	EPA 8260B
Field ID: SS-31(A)-GGW		Batch#:	127450
Lab ID: 196103-006		Sampled:	07/19/07
Matrix: Water		Received:	07/20/07
Units: ug/L		Analyzed:	07/20/07
Diln Fac: 1 000			
Analyte	Result		RI.
Gasoline C7-C12	ND		50
tert-Butyl Alcohol (TBA)	ND		10
Freon 12	ND		1.0
Chloromethane	ND		1.0
Vinyl Chloride	ND		0.5
Isopropyl Ether (DIPE)	ND		0.5
Bromomethane	ND		1.0
Ethyl tert-Butyl Ether (ETBE)	ND		0.5
Methyl tert-Amyl Ether (TAME)	ND		0.5
Chloroethane	ND		1.0
Trichlorofluoromethane	ND		1.0
Acetone	ND		
Freon 113 1,1-Dichloroethene	ND		0.5
Methylene Chloride	ND ND		0.5 10
Carbon Disulfide	ND ND		0.5
MTBE	ND		0.5
trans-1,2-Dichloroethene	ND		0.5
Vinyl Acetate	ND		10
1,1-Dichloroethane	ND		0.5
2-Butanone	ND		10
cis-1,2-Dichloroethene	ND		0.5
2,2-Dichloropropane	ND		0.5
Chloroform	ND		0.5
Bromochloromethane	ND		0.5
1,1,1-Trichloroethane	ND		0.5
1,1-Dichloropropene	ND		0.5
Carbon Tetrachloride	ND		0.5
1,2-Dichloroethane	ND		0.5
Benzene	ND		0.5
Trichloroethene	ND		0.5
1,2-Dichloropropane	ND ND		0.5
Bromodichloromethane Dibromomethane	ND ND		0.5 0.5
4-Methyl-2-Pentanone	ND ND		10
cis-1,3-Dichloropropene	ND		0.5
Toluene	ND		0.5
trans-1,3-Dichloropropene	ND		0.5
1,1,2-Trichloroethane	ND		0.5
2-Hexanone	ND		10
1,3-Dichloropropane	ND		0.5
Tetrachloroethene	ND		0.5
Dibromochloromethane	ND		0.5
1,2-Dibromoethane	ND		0.5
Chlorobenzene	ND		0.5
1,1,1,2-Tetrachloroethane	ND		0.5
Ethylbenzene	ND		0.5
m,p-Xylenes	ND		0.5
o-Xylene	ND ND		0.5 0.5
Styrene Bromoform	ND ND		0.5 1.0
Isopropylbenzene	ND ND		0.5
1,1,2,2-Tetrachloroethane	ND		0.5
1,2,3-Trichloropropane	ND		0.5
······································			

ND= Not Detected RL= Reporting Limit Page 1 of 2



	Gasolin	e by GC/MS
Lab #: 196103		Location: Hanson Radum
Client: LFR Levine Fr	icke	Prep: EPA 5030B
Project#: 001-09567-01		Analysis: EPA 8260B
Field ID: SS-31(A)-GGW		Batch#: 127450
Lab ID: 196103-006		Sampled: 07/19/07
Matrix: Water		Received: 07/20/07
Units: ug/L		Analyzed: 07/20/07
Diln Fac: 1.000		
Analyte	Result ND	RL
Propylbenzene		0.5 0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene 4-Chlorotoluene	ND ND	0.5
tert-Butylbenzene	ND ND	0.5
1,2,4-Trimethylbenzene	ND ND	0.5
sec-Butylbenzene	ND ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5
Surrogate	%REC Limits	
Dibromofluoromethane	93 80-123	
1,2-Dichloroethane-d4	100 79-134	
Toluene-d8	98 80-120	
Bromofluorobenzene	101 80-122	



	Gasoline	e by GC/MS	
Lab #: Client: Project#:	196103 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B
Matrix: Units: Diln Fac:	Water ug/L 1.000	Batch#: Analyzed:	127450 07/20/07

Туре:	BS			Lab ID:	QC	397133		
An	alyte		Spiked		Result	%REC	Limits	
tert-Butyl Al	cohol (TBA)		125.0		111.5	89	68-132	
Isopropyl Eth	er (DIPE)		25.00		20.79	83	65-120	
Ethyl tert-Bu	tyl Ether (ETBE)		25.00		21.63	87	75-124	
Metĥyl tert-A	myl Ether (TAME)		25.00		26.67	107	77-120	
1,1-Dichloroe			25.00		26.82	107	80-132	
Benzene			25.00		26.46	106	80-120	
Trichloroethe	ne		25.00		27.39	110	80-120	
Toluene			25.00		26.80	107	80-120	
Chlorobenzene			25.00		27.51	110	80-120	
Sur	rogate	%REC	Limits					
Dibromofluoro	methane	92	80-123					
1,2-Dichloroe	thane-d4	98	79-134					

Dibromofluoromethane	92	80-123			
1,2-Dichloroethane-d4	98	79-134			
Toluene-d8	99	80-120			
Bromofluorobenzene	98	80-122			

Type: BSD			Lab ID:	QC3	97134			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)		125.0		105.8	85	68-132	5	20
Isopropyl Ether (DIPE)		25.00		18.51	74	65-120	12	20
Ethyl tert-Butyl Ether (ETBE)		25.00		19.88	80	75-124	8	20
Methyl tert-Amyl Ether (TAME)		25.00		23.79	95	77-120	11	20
1,1-Dichloroethene		25.00		23.61	94	80-132	13	20
Benzene		25.00		23.45	94	80-120	12	20
Trichloroethene		25.00		24.81	99	80-120	10	20
Toluene		25.00		24.80	99	80-120	8	20
Chlorobenzene		25.00		24.32	97	80-120	12	20
Surrogate	%REC	Limits						
Dibromofluoromethane	91	80-123						
1,2-Dichloroethane-d4	97	79-134						
Toluene-d8	98	80-120						
Bromofluorobenzene	94	80-122						



	Gasoline by GC/MS						
Lab #: Client: Project#:	196103 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B				
Type: Lab ID: Matrix: Units:	BLANK QC397135 Water ug/L	Diln Fac: Batch#: Analyzed:	1.000 127450 07/20/07				

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
	ND	0.5
Isopropyl Ether (DIPE)		1.0
Bromomethane	ND	
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5

ND= Not Detected RL= Reporting Limit Page 1 of 2



		Gasoline	by GC/MS	
Lab #:	196103		Location:	Hanson Radum
Client:	LFR Levine Fricke		Prep:	EPA 5030B
Project#:	001-09567-01		Analysis:	EPA 8260B
Type: Lab ID:	BLANK		Diln Fac:	1.000
Lab ID:	QC397135		Batch#:	127450
Matrix:	Water		Analyzed:	07/20/07
Units:	ug/L		-	
Ana	lyte	Result		RL
Propylbenzene		ND		0.5

ND		0.5	
ND		0.5	
ND		2.0	
ND		0.5	
ND		0.5	
ND		2.0	
ND		0.5	
106	80-122		
	ND ND ND ND ND ND ND ND ND ND ND ND ND N	ND ND ND ND ND ND ND ND ND ND ND ND ND N	ND 0.5 94 80-123



	Gasoline by GC/MS						
Lab #:	196103	Location:	Hanson Radum				
Client:	LFR Levine Fricke	Prep:	EPA 5030B				
Project#:	001-09567-01	Analysis:	EPA 8260B				
Matrix:	Water	Batch#:	127450				
Units:	ug/L	Analyzed:	07/20/07				
Diln Fac:	1.000						

Type:

Bromofluorobenzene

BS

Lab ID:

QC397190

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	982.8	98	70-130

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-123
1,2-Dichloroethane-d4	100	79-134
Toluene-d8	103	80-120
Bromofluorobenzene	97	80-122

Type: BSD			Lab ID:	QC3	97191			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Gasoline C7-C12		1,000		957.8	96	70-130	3	20
Surrogate	%REC	Limits						
Dibromofluoromethane	92	80-123						
1,2-Dichloroethane-d4	98	79-134						
Toluene-d8	100	80-120						

80-122

99



BTXE & Oxygenates Lab #: Hanson Radum 196103 Location: Client: LFR Levine Fricke Prep: EPA 5030B Project#: 001-09567-01 Analysis: EPA 8260B SS-31(A)-40.5 Field ID: Diln Fac: 0.9615 Lab ID: 196103-001 Batch#: 127494 Matrix: Soil Sampled: 07/19/07 07/20/07 Units: ug/Kg Received: Basis: Analyzed: as received 07/23/07

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	96	
MTBE	ND	4.8	
Isopropyl Ether (DIPE)	ND	4.8	
Ethyl tert-Butyl Ether (ETBE)	ND	4.8	
1,2-Dichloroethane	ND	4.8	
Benzene	ND	4.8	
Methyl tert-Amyl Ether (TAME)	ND	4.8	
Toluene	ND	4.8	
1,2-Dibromoethane	ND	4.8	
Ethylbenzene	ND	4.8	
m,p-Xylenes	ND	4.8	
o-Xylene	ND	4.8	

Surrogate	%REC	Limits	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	103	76-135	
Toluene-d8	99	80-120	
Bromofluorobenzene	98	80-126	



BTXE & Oxygenates Lab #: Hanson Radum 196103 Location: Client: LFR Levine Fricke Prep: EPA 5030B Project#: 001-09567-01 Analysis: EPA 8260B Field ID: SS-31(A)-50.5 Diln Fac: 0.9259 Lab ID: 196103-002 Batch#: 127494 Matrix: Soil Sampled: 07/19/07 07/20/07 Units: ug/Kg Received: Basis: Analyzed: as received 07/23/07

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	93	
MTBE	ND	4.6	
Isopropyl Ether (DIPE)	ND	4.6	
Ethyl tert-Butyl Ether (ETBE)	ND	4.6	
1,2-Dichloroethane	ND	4.6	
Benzene	ND	4.6	
Methyl tert-Amyl Ether (TAME)	ND	4.6	
Toluene	ND	4.6	
1,2-Dibromoethane	ND	4.6	
Ethylbenzene	ND	4.6	
m,p-Xylenes	ND	4.6	
o-Xylene	ND	4.6	

Surrogate	%REC	Limits		
Dibromofluoromethane	99	78-126		
1,2-Dichloroethane-d4	106	76-135		
Toluene-d8	99	80-120		
Bromofluorobenzene	99	80-126		



BTXE & Oxygenates Lab #: Hanson Radum 196103 Location: Client: LFR Levine Fricke Prep: EPA 5030B Project#: 001-09567-01 Analysis: EPA 8260B SS-31(A)-52.5 Field ID: Diln Fac: 0.9434 Lab ID: 196103-003 Batch#: 127494 Matrix: Soil Sampled: 07/19/07 07/20/07 Units: ug/Kg Received: Basis: Analyzed: as received 07/23/07

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	94	
MTBE	ND	4.7	
Isopropyl Ether (DIPE)	ND	4.7	
Ethyl tert-Butyl Ether (ETBE)	ND	4.7	
1,2-Dichloroethane	ND	4.7	
Benzene	ND	4.7	
Methyl tert-Amyl Ether (TAME)	ND	4.7	
Toluene	ND	4.7	
1,2-Dibromoethane	ND	4.7	
Ethylbenzene	ND	4.7	
m,p-Xylenes	ND	4.7	
o-Xylene	ND	4.7	

Surrogate	%REC	Limits	
Dibromofluoromethane	101	78-126	
1,2-Dichloroethane-d4	105	76-135	
Toluene-d8	99	80-120	
Bromofluorobenzene	99	80-126	



BTXE & Oxygenates Lab #: Hanson Radum 196103 Location: Client: LFR Levine Fricke Prep: EPA 5030B Project#: 001-09567-01 Analysis: EPA 8260B SS-31(A)-60.5 Field ID: Diln Fac: 0.8929 Lab ID: 196103-004 Batch#: 127505 Matrix: Soil Sampled: 07/19/07 07/20/07 Units: ug/Kg Received: Basis: Analyzed: as received 07/23/07

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	89	
MTBE	ND	4.5	
Isopropyl Ether (DIPE)	ND	4.5	
Ethyl tert-Butyl Ether (ETBE)	ND	4.5	
1,2-Dichloroethane	ND	4.5	
Benzene	ND	4.5	
Methyl tert-Amyl Ether (TAME)	ND	4.5	
Toluene	ND	4.5	
1,2-Dibromoethane	ND	4.5	
Ethylbenzene	ND	4.5	
m,p-Xylenes	ND	4.5	
o-Xylene	ND	4.5	

Surrogate	%REC	Limits	
Dibromofluoromethane	92	78-126	
1,2-Dichloroethane-d4	112	76-135	
Toluene-d8	106	80-120	
Bromofluorobenzene	100	80-126	



BTXE & Oxygenates

Lab #:	196103	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(B)-5.5	Diln Fac:	0.9434	
Lab ID:	196103-007	Batch#:	127505	
Matrix:	Soil	Sampled:	07/19/07	
Units:	ug/Kg	Received:	07/20/07	
Basis:	as received	Analyzed:	07/23/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	94	
MTBE	ND	4.7	
Isopropyl Ether (DIPE)	ND	4.7	
Ethyl tert-Butyl Ether (ETBE)	ND	4.7	
1,2-Dichloroethane	ND	4.7	
Benzene	ND	4.7	
Methyl tert-Amyl Ether (TAME)	ND	4.7	
Toluene	ND	4.7	
1,2-Dibromoethane	ND	4.7	
Ethylbenzene	ND	4.7	
m,p-Xylenes	ND	4.7	
o-Xylene	ND	4.7	

Surrogate	%REC	Limits	
Dibromofluoromethane	98	78-126	
1,2-Dichloroethane-d4	114	76-135	
Toluene-d8	102	80-120	
Bromofluorobenzene	98	80-126	



BTXE & Oxygenates Lab #: Hanson Radum 196103 Location: Client: LFR Levine Fricke Prep: EPA 5030B Project#: 001-09567-01 Analysis: EPA 8260B SS-31(B)-10.5 Field ID: Diln Fac: 0.9615 Lab ID: 196103-008 Batch#: 127505 Matrix: Soil Sampled: 07/19/07 07/20/07 Units: ug/Kg Received: Basis: Analyzed: as received 07/23/07

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	96	
MTBE	ND	4.8	
Isopropyl Ether (DIPE)	ND	4.8	
Ethyl tert-Butyl Ether (ETBE)	ND	4.8	
1,2-Dichloroethane	ND	4.8	
Benzene	ND	4.8	
Methyl tert-Amyl Ether (TAME)	ND	4.8	
Toluene	ND	4.8	
1,2-Dibromoethane	ND	4.8	
Ethylbenzene	ND	4.8	
m,p-Xylenes	ND	4.8	
o-Xylene	ND	4.8	

Surrogate	%REC	Limits	
Dibromofluoromethane	100	78-126	
1,2-Dichloroethane-d4	113	76-135	
Toluene-d8	103	80-120	
Bromofluorobenzene	99	80-126	

ND= Not Detected RL= Reporting Limit Page 1 of 1



BTXE & Oxygenates

Lab #:	196103	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(B)-15.5	Diln Fac:	0.9615	
Lab ID:	196103-009	Batch#:	127505	
Matrix:	Soil	Sampled:	07/19/07	
Units:	ug/Kg	Received:	07/20/07	
Basis:	as received	Analyzed:	07/23/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	96	
MTBE	ND	4.8	
Isopropyl Ether (DIPE)	ND	4.8	
Ethyl tert-Butyl Ether (ETBE)	ND	4.8	
1,2-Dichloroethane	ND	4.8	
Benzene	ND	4.8	
Methyl tert-Amyl Ether (TAME)	ND	4.8	
Toluene	ND	4.8	
1,2-Dibromoethane	ND	4.8	
Ethylbenzene	ND	4.8	
m,p-Xylenes	ND	4.8	
o-Xylene	ND	4.8	

Surrogate	%REC	Limits	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	112	76-135	
Toluene-d8	104	80-120	
Bromofluorobenzene	101	80-126	



BTXE & Oxygenates Lab #: Hanson Radum 196103 Location: Client: LFR Levine Fricke Prep: EPA 5030B Project#: 001-09567-01 Analysis: EPA 8260B SS-31(B)-20.5 Field ID: Diln Fac: 0.9259 Lab ID: 196103-010 Batch#: 127505 Matrix: Soil Sampled: 07/19/07 07/20/07 Units: ug/Kg Received: Analyzed: Basis: as received 07/23/07

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	93	
MTBE	ND	4.6	
Isopropyl Ether (DIPE)	ND	4.6	
Ethyl tert-Butyl Ether (ETBE)	ND	4.6	
1,2-Dichloroethane	ND	4.6	
Benzene	ND	4.6	
Methyl tert-Amyl Ether (TAME)	ND	4.6	
Toluene	ND	4.6	
1,2-Dibromoethane	ND	4.6	
Ethylbenzene	ND	4.6	
m,p-Xylenes	ND	4.6	
o-Xylene	ND	4.6	

Surrogate	%REC	Limits	
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	116	76-135	
Toluene-d8	102	80-120	
Bromofluorobenzene	101	80-126	

ND= Not Detected RL= Reporting Limit Page 1 of 1



BTXE & Oxygenates Lab #: Hanson Radum 196103 Location: Client: LFR Levine Fricke Prep: EPA 5030B Project#: 001-09567-01 Analysis: EPA 8260B SS-31(B)-25.5 Field ID: Diln Fac: 0.9615 Lab ID: 196103-011 Batch#: 127505 Matrix: Soil Sampled: 07/19/07 07/20/07 Units: ug/Kg Received: Analyzed: Basis: as received 07/23/07

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	96	
MTBE	ND	4.8	
Isopropyl Ether (DIPE)	ND	4.8	
Ethyl tert-Butyl Ether (ETBE)	ND	4.8	
1,2-Dichloroethane	ND	4.8	
Benzene	ND	4.8	
Methyl tert-Amyl Ether (TAME)	ND	4.8	
Toluene	ND	4.8	
1,2-Dibromoethane	ND	4.8	
Ethylbenzene	ND	4.8	
m,p-Xylenes	ND	4.8	
o-Xylene	ND	4.8	

Surrogate	%REC	Limits	
Dibromofluoromethane	101	78-126	
1,2-Dichloroethane-d4	116	76-135	
Toluene-d8	102	80-120	
Bromofluorobenzene	101	80-126	



BTXE & Oxygenates Lab #: Hanson Radum 196103 Location: Client: LFR Levine Fricke Prep: EPA 5030B Project#: 001-09567-01 Analysis: EPA 8260B SS-31(B)-30.5 Field ID: Diln Fac: 0.8929 Lab ID: 196103-012 Batch#: 127505 Matrix: Soil Sampled: 07/19/07 07/20/07 Units: ug/Kg Received: Analyzed: Basis: as received 07/23/07

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	89	
MTBE	ND	4.5	
Isopropyl Ether (DIPE)	ND	4.5	
Ethyl tert-Butyl Ether (ETBE)	ND	4.5	
1,2-Dichloroethane	ND	4.5	
Benzene	ND	4.5	
Methyl tert-Amyl Ether (TAME)	ND	4.5	
Toluene	ND	4.5	
1,2-Dibromoethane	ND	4.5	
Ethylbenzene	ND	4.5	
m,p-Xylenes	ND	4.5	
o-Xylene	ND	4.5	

Surrogate	%REC	Limits	
Dibromofluoromethane	101	78-126	
1,2-Dichloroethane-d4	117	76-135	
Toluene-d8	103	30-120	
Bromofluorobenzene	101	30-126	



BTXE & Oxygenates

Lab #:	196103	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(B)-40	Diln Fac:	0.8929	
Lab ID:	196103-013	Batch#:	127505	
Matrix:	Soil	Sampled:	07/19/07	
Units:	ug/Kg	Received:	07/20/07	
Basis:	as received	Analyzed:	07/23/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	89	
MTBE	ND	4.5	
Isopropyl Ether (DIPE)	ND	4.5	
Ethyl tert-Butyl Ether (ETBE)	ND	4.5	
1,2-Dichloroethane	ND	4.5	
Benzene	ND	4.5	
Methyl tert-Amyl Ether (TAME)	ND	4.5	
Toluene	ND	4.5	
1,2-Dibromoethane	ND	4.5	
Ethylbenzene	ND	4.5	
m,p-Xylenes	ND	4.5	
o-Xylene	ND	4.5	

Surrogate	%REC	Limits	
Dibromofluoromethane	104	78-126	
1,2-Dichloroethane-d4	116	76-135	
Toluene-d8	102	80-120	
Bromofluorobenzene	100	80-126	



BTXE & Oxygenates

Lab #:	196103	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(B)-50	Diln Fac:	0.8929	
Lab ID:	196103-014	Batch#:	127505	
Matrix:	Soil	Sampled:	07/19/07	
Units:	ug/Kg	Received:	07/20/07	
Basis:	as received	Analyzed:	07/23/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	89	
MTBE	ND	4.5	
Isopropyl Ether (DIPE)	ND	4.5	
Ethyl tert-Butyl Ether (ETBE)	ND	4.5	
1,2-Dichloroethane	ND	4.5	
Benzene	ND	4.5	
Methyl tert-Amyl Ether (TAME)	ND	4.5	
Toluene	ND	4.5	
1,2-Dibromoethane	ND	4.5	
Ethylbenzene	ND	4.5	
m,p-Xylenes	ND	4.5	
o-Xylene	ND	4.5	

Surrogate	%REC	Limits	
Dibromofluoromethane	101	78-126	
1,2-Dichloroethane-d4	118	76-135	
Toluene-d8	103	80-120	
Bromofluorobenzene	101	80-126	



BTXE & Oxygenates Lab #: Hanson Radum 196103 Location: Client: LFR Levine Fricke Prep: EPA 5030B Project#: 001-09567-01 Analysis: EPA 8260B SS-31(B)-60.5 Field ID: Diln Fac: 0.9804 Lab ID: 196103-015 Batch#: 127505 Matrix: Soil Sampled: 07/19/07 07/20/07 Units: ug/Kg Received: Analyzed: Basis: as received 07/23/07

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	98	
MTBE	ND	4.9	
Isopropyl Ether (DIPE)	ND	4.9	
Ethyl tert-Butyl Ether (ETBE)	ND	4.9	
1,2-Dichloroethane	ND	4.9	
Benzene	ND	4.9	
Methyl tert-Amyl Ether (TAME)	ND	4.9	
Toluene	ND	4.9	
1,2-Dibromoethane	ND	4.9	
Ethylbenzene	ND	4.9	
m,p-Xylenes	ND	4.9	
o-Xylene	ND	4.9	

Surrogate	%REC	Limits	
Dibromofluoromethane	103	78-126	
1,2-Dichloroethane-d4	115	76-135	
Toluene-d8	101	80-120	
Bromofluorobenzene	99	80-126	



	BTXE & Oxygenates				
Lab #:	196103	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 5030B		
Project#:	001-09567-01	Analysis:	EPA 8260B		
Type:	LCS	Basis:	as received		
Lab ID:	QC397378	Diln Fac:	1.000		
Matrix:	Soil	Batch#:	127494		
Units:	ug/Kg	Analyzed:	07/23/07		

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	125.2	100	56-130
MTBE	25.00	23.94	96	66-120
Isopropyl Ether (DIPE)	25.00	22.73	91	57-120
Ethyl tert-Butyl Ether (ETBE)	25.00	21.67	87	68-120
1,2-Dichloroethane	25.00	25.72	103	73-120
Benzene	25.00	25.43	102	80-120
Methyl tert-Amyl Ether (TAME)	25.00	25.40	102	73-120
Toluene	25.00	25.49	102	80-120
1,2-Dibromoethane	25.00	25.09	100	80-120
Ethylbenzene	25.00	26.99	108	80-125
m,p-Xylenes	50.00	52.22	104	80-123
o-Xylene	25.00	26.38	106	80-122

Surrogate	%REC	Limits	
Dibromofluoromethane	101	78-126	
1,2-Dichloroethane-d4	106	76-135	
Toluene-d8	100	80-120	
Bromofluorobenzene	98	80-126	



	BTXI	2 & Oxygenates		
Lab #:	196103	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Type:	BLANK	Basis:	as received	
Lab ID:	QC397379	Diln Fac:	1.000	
Matrix:	Soil	Batch#:	127494	
Units:	ug/Kg	Analyzed:	07/23/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	100	
MTBE	ND	5.0	
Isopropyl Ether (DIPE)	ND	5.0	
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	
1,2-Dichloroethane	ND	5.0	
Benzene	ND	5.0	
Methyl tert-Amyl Ether (TAME)	ND	5.0	
Toluene	ND	5.0	
1,2-Dibromoethane	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	

Surrogate	%REC	Limits	
Dibromofluoromethane	104	78-126	
1,2-Dichloroethane-d4	107	76-135	
Toluene-d8	98	80-120	
Bromofluorobenzene	100	80-126	



	BTXE & Oxygenates			
Lab #:	196103	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Type:	BLANK	Basis:	as received	
Lab ID:	QC397380	Diln Fac:	1.000	
Matrix:	Soil	Batch#:	127494	
Units:	ug/Kg	Analyzed:	07/23/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	100	
MTBE	ND	5.0	
Isopropyl Ether (DIPE)	ND	5.0	
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	
1,2-Dichloroethane	ND	5.0	
Benzene	ND	5.0	
Methyl tert-Amyl Ether (TAME)	ND	5.0	
Toluene	ND	5.0	
1,2-Dibromoethane	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	

Surrogate	%REC	Limits	
Dibromofluoromethane	93	78-126	
1,2-Dichloroethane-d4	93	76-135	
Toluene-d8	97	80-120	
Bromofluorobenzene	93	80-126	



	BTXE & Oxygenates				
Lab #: Client:	196103 LFR Levine Fricke	Location: Prep:	Hanson Radum EPA 5030B		
Project#:	001-09567-01	Analysis:	EPA 8260B		
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.9804		
MSS Lab ID:	196096-011	Batch#:	127494		
Matrix:	Soil	Sampled:	07/17/07		
Units:	ug/Kg	Received:	07/19/07		
Basis:	as received	Analyzed:	07/23/07		

Type: MS			Lab ID:	QC397381		
Analyte	MSS	Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)		<3.013	245.1	162.3	66	45-123
MTBE		1.011	49.02	41.34	82	55-120
Isopropyl Ether (DIPE)		<0.1696	49.02	41.09	84	50-120
Ethyl tert-Butyl Ether (ETBE)		<0.08887	49.02	39.85	81	58-120
1,2-Dichloroethane		<0.1943	49.02	42.15	86	56-120
Benzene		0.2064	49.02	47.19	96	61-122
Methyl tert-Amyl Ether (TAME)		<0.1769	49.02	43.93	90	60-120
Toluene		<0.5418	49.02	44.85	92	57-124
1,2-Dibromoethane		<0.2179	49.02	39.30	80	57-120
Ethylbenzene		<0.5715	49.02	42.87	87	55-129
m,p-Xylenes		<1.282	98.04	81.15	83	53-127
o-Xylene		<0.5054	49.02	41.21	84	54-127
Surrogate	%REC	Limits				
Dibromofluoromethane	100	78-126				
1,2-Dichloroethane-d4	92	76-135				
Toluene-d8	92 99	80-120				
Bromofluorobenzene	106	80-120				

Type: MSD			Lab ID:	QC3	97382			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)		245.1		140.9	57	45-123	14	32
MTBE		49.02		38.58	77	55-120	7	20
Isopropyl Ether (DIPE)		49.02		40.43	82	50-120	2	20
Ethyl tert-Butyl Ether (ETBE)		49.02		39.10	80	58-120	2	20
1,2-Dichloroethane		49.02		37.01	76	56-120	13	20
Benzene		49.02		46.77	95	61-122	1	20
Methyl tert-Amyl Ether (TAME)		49.02		44.24	90	60-120	1	20
Toluene		49.02		46.95	96	57-124	5	21
1,2-Dibromoethane		49.02		36.61	75	57-120	7	20
Ethylbenzene		49.02		47.19	96	55-129	10	23
m,p-Xylenes		98.04		92.06	94	53-127	13	23
o-Xylene		49.02		45.41	93	54-127	10	22
Surrogate	%REC	Limits						
Dibromofluoromethane	92	78-126						
1,2-Dichloroethane-d4	81	76-135						
Toluene-d8	97	80-120						
Bromofluorobenzene	99	80-126						



	BTXE & Oxygenates			
Lab #:	196103	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Type:	LCS	Basis:	as received	
Lab ID:	QC397429	Diln Fac:	1.000	
Matrix:	Soil	Batch#:	127505	
Units:	ug/Kg	Analyzed:	07/23/07	

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	154.9	124	56-130
MTBE	25.00	23.13	93	66-120
Isopropyl Ether (DIPE)	25.00	23.44	94	57-120
Ethyl tert-Butyl Ether (ETBE)	25.00	22.98	92	68-120
1,2-Dichloroethane	25.00	24.45	98	73-120
Benzene	25.00	26.28	105	80-120
Methyl tert-Amyl Ether (TAME)	25.00	26.60	106	73-120
Toluene	25.00	27.19	109	80-120
1,2-Dibromoethane	25.00	27.23	109	80-120
Ethylbenzene	25.00	26.85	107	80-125
m,p-Xylenes	50.00	51.96	104	80-123
o-Xylene	25.00	26.54	106	80-122

Surrogate	%REC	Limits	
Dibromofluoromethane	95	78-126	
1,2-Dichloroethane-d4	100	76-135	
Toluene-d8	101	80-120	
Bromofluorobenzene	98	80-126	



	BTXE & Oxygenates				
Lab #:	196103	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 5030B		
Project#:	001-09567-01	Analysis:	EPA 8260B		
Type:	BLANK	Basis:	as received		
Lab ID:	QC397430	Diln Fac:	1.000		
Matrix:	Soil	Batch#:	127505		
Units:	ug/Kg	Analyzed:	07/23/07		

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	100	
MTBE	ND	5.0	
Isopropyl Ether (DIPE)	ND	5.0	
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	
1,2-Dichloroethane	ND	5.0	
Benzene	ND	5.0	
Methyl tert-Amyl Ether (TAME)	ND	5.0	
Toluene	ND	5.0	
1,2-Dibromoethane	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	

Surrogate	%REC	Limits	
Dibromofluoromethane	93	78-126	
1,2-Dichloroethane-d4	103	76-135	
Toluene-d8	103	80-120	
Bromofluorobenzene	101	80-126	



	1	BTXE & Oxygenates		
Lab #: Client:	196103 LFR Levine Fricke	Location:	Hanson Radum EPA 5030B	
Project#:	001-09567-01	Prep: Analysis:	EPA 5030B EPA 8260B	
Field ID:	SS-31(B)-60.5	Diln Fac:	0.9804	
MSS Lab ID:	196103-015	Batch#:	127505	
Matrix:	Soil	Sampled:	07/19/07	
Units:	ug/Kg	Received:	07/20/07	
Basis:	as received	Analyzed:	07/23/07	

Type: MS			Lab ID:	QC397495		
Analyte	MSS	Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)		<7.258	245.1	255.2	104	45-123
MTBE		<0.5953	49.02	42.00	86	55-120
Isopropyl Ether (DIPE)		<0.5554	49.02	45.63	93	50-120
Ethyl tert-Butyl Ether (ETBE)		<0.6013	49.02	42.38	86	58-120
1,2-Dichloroethane		<0.8152	49.02	45.75	93	56-120
Benzene		<0.6947	49.02	46.34	95	61-122
Methyl tert-Amyl Ether (TAME)		<0.6889	49.02	48.02	98	60-120
Toluene		<0.5124	49.02	47.14	96	57-124
1,2-Dibromoethane		<0.6878	49.02	46.43	95	57-120
Ethylbenzene		<0.6598	49.02	43.25	88	55-129
m,p-Xylenes		<1.205	98.04	82.61	84	53-127
o-Xylene		<0.5031	49.02	43.24	88	54-127
Surrogate	%REC	Limits				
Dibromofluoromethane	107	78-126				
1,2-Dichloroethane-d4	112	76-135				
Toluene-d8	104	80-120				
Bromofluorobenzene	99	80-126				

Type: MSD			Lab ID:	QC	397496			
Analyte	Sr	piked		Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)		245.1		225.6	92	45-123	12	32
MTBE		49.02		39.01	80	55-120	7	20
Isopropyl Ether (DIPE)		49.02		42.29	86	50-120	8	20
Ethyl tert-Butyl Ether (ETBE)		49.02		39.72	81	58-120	6	20
1,2-Dichloroethane		49.02		41.13	84	56-120	11	20
Benzene		49.02		43.39	89	61-122	7	20
Methyl tert-Amyl Ether (TAME)		49.02		44.84	91	60-120	7	20
Toluene		49.02		44.18	90	57-124	6	21
1,2-Dibromoethane		49.02		42.57	87	57-120	9	20
Ethylbenzene		49.02		41.55	85	55-129	4	23
m,p-Xylenes		98.04		79.66	81	53-127	4	23
o-Xylene		49.02		41.95	86	54-127	3	22
Surrogate	%REC I	Limits						
Dibromofluoromethane		78-126						
1,2-Dichloroethane-d4		76-135						
Toluene-d8		30-120						
Bromofluorobenzene		30-126						



LFR Levine Fricke	Project : 001-09567-01
1900 Powell Street	Location : Hanson Radum
Emeryville, CA 94608	Level : II

<u>Sample ID</u>	<u>Lab ID</u>
SS-31(B)-5.5	196141-001
SS-31(B)-10.5	196141-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: Project Manager Signature:

Operations Manager

Date: 07/31/2007

Date: 07/31/2007

NELAP # 01107CA

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CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 196141 LFR Levine Fricke 001-09567-01 Hanson Radum 07/23/07 07/20/07

This hardcopy data package contains sample and QC results for two soil samples, requested for the above referenced project on 07/23/07. The samples were received cold and intact. All data were e-mailed to Katrin Schliewen on 07/26/07.

Semivolatile Organics by GC/MS (EPA 8270C):

Matrix spikes were not reported for this analysis because the parent sample needed to be re-extracted. SS-31(B)-10.5 (lab # 196141-002) was diluted due to the viscous nature of the sample extract. No other analytical problems were encountered.

Pesticides (EPA 8081A):

No analytical problems were encountered.

Polychlorinated Biphenyls (PCBs) (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

No analytical problems were encountered.



	Semivolatile C	organics by GC/	MS
Lab #:	196141	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 3550B
Project#:	001-09567-01	Analysis:	EPA 8270C
Field ID:	SS-31(B)-5.5	Batch#:	127543
Lab ID:	196141-001	Sampled:	07/19/07
Matrix:	Soil	Received:	07/20/07
Units:	ug/Kg	Prepared:	07/24/07
Basis: Diln Fac:	as received 1.000	Analyzed:	07/25/07

NH:trosodimethylamine ND 330 Phenol ND 330 bis(2-Chloroethyl)ether ND 330 2-Chlorophenol ND 330 1,4-Dichlorobenzene ND 330 1,4-Dichlorobenzene ND 330 1,2-Dichlorobenzene ND 330 4-Methylphenol ND 330 N+Nitroso-di-n-propylamine ND 330 Nitrobenzene ND 330 2.4-Dimethylphenol ND 330 2.4-Dirtri	Analyte	Result	RL
Phenol 330 2-Chlorophenol ND 330 2-Chlorophenol ND 330 1,3-Dichlorobenzene ND 330 1,4-Dichlorobenzene ND 330 1,2-Dichlorobenzene ND 330 1,2-Dichlorobenzene ND 330 1,2-Dichlorobenzene ND 330 2-Methylphenol ND 330 1,2-Dichlorobenzene ND 330 2-Methylphenol ND 330 Hwiktroso-di-n-propylamine ND 330 Hitrobenzene ND 330 Isophorone ND 330 2-Mitrophenol ND 660 2,4-Dichlorophenol ND 330 1,2,4-Trichlorophenol ND <th></th> <th></th> <th></th>			
bis(2-chloroethyl)ether ND 330 2-Chlorophenol ND 330 1,4-Dichlorobenzene ND 330 1,4-Dichlorobenzene ND 330 Lablehlorobenzene ND 330 Hexachlorobenzene ND 330 Hexachlorobenzene ND 330 Hexachlorobenzene ND 330 Z-4-Dichlorobenzene ND 330 Paltrophenol ND 330 Z-4-Dichlorobenzene ND 330 Z-4-Dichlorophenol ND 330 L,2,4-Tichlorobenzene ND 330 L,2,4-Tichlorobenzene ND 330 L,2,4-Tichlorophenol ND 300 J-4-Staptanpthalene ND 300 J-4-Staptanpthtalene ND 300 J-4-C			
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4-Methylphenol ND 330 Hexachloroethane ND 330 Hexachloroethane ND 330 Nitrobenzene ND 330 Isophorone ND 330 Z-Nitrophenol ND 660 2.4 -Dinethylphenol ND 330 Benzoic acid ND 330 J.4 -Dichlorophenol ND 330 J.4.7 Lichlorophenol ND 330 J.4.6 Trichlorophenol ND 330 J.4.7 S-Trichlorophenol ND 330 J.4.7 S-Trichlorophenol ND 330 J.4.7 S-Trichlorophenol ND 330 J.4.7 S-Trichlorophenol ND 660 J.6 -Dinitrotoluene ND 660 J.			
N-Nitroso-di-n-propylamineND330HexachloroethaneND330NitrobenzeneND330IsophoroneND3302-NitrophenolND6602.4-DienthylphenolND1,600bis(2-Chloroethoxy)methaneND3302-ArbichlorophenolND3302.4-Dienthoxy)methaneND330NaphthaleneND3304-Chloroethoxy)methaneND330NaphthaleneND330-AchlorobutadieneND3304-ChlorophenolND330-AchlorobutadieneND330-AchlorophenolND330-AchlorophenolND330-AchlorophenolND330-AchlorophenolND330-AchlorophenolND330-AchlorophenolND330-AchlorophenolND330-AchlorophenolND330-AchlorophenolND330-AchlorophenolND330-AchlorophenolND330-AchlorophenolND330-AchlorophenolND330-AchlorophenolND330-AchlorophenolND330-AchlorophenolND360-AchlorophenolND660-AchlorophenolND660-AchlorophenolND660-AchlorophenolND660-AchlorophenolND660-Achlo			
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PhenanthreneND66AnthraceneND66		ND	330
Anthracene ND 66	Pentachlorophenol	ND	660
Anthracene ND 66	Phenanthrene	ND	66
Di-n-butylphthalate ND 330			
	Di-n-butylphthalate	ND	330

ND= Not Detected RL= Reporting Limit Page 1 of 2



	Semivolatile Organics by GC/MS							
Lab #:	196141	Location:	Hanson Radum					
Client:	LFR Levine Fricke	Prep:	EPA 3550B					
Project#:	001-09567-01	Analysis:	EPA 8270C					
Field ID:	SS-31(B)-5.5	Batch#:	127543					
Lab ID:	196141-001	Sampled:	07/19/07					
Matrix:	Soil	Received:	07/20/07					
Units:	ug/Kg	Prepared:	07/24/07					
Basis:	as received	Analyzed:	07/25/07					
Diln Fac:	1.000							

Analyte	Result	RL	
Fluoranthene	ND	66	
Pyrene	ND	66	
Butylbenzylphthalate	ND	330	
3,3 [°] -Dichlorobenzidine	ND	660	
Benzo(a)anthracene	ND	66	
Chrysene	ND	66	
bis(2-Ethylhexyl)phthalate	ND	330	
Di-n-octylphthalate	ND	330	
Benzo(b)fluoranthene	ND	66	
Benzo(k)fluoranthene	ND	66	
Benzo(a)pyrene	ND	66	
Indeno(1,2,3-cd)pyrene	ND	66	
Dibenz(a,h)anthracene	ND	66	
Benzo(g,h,i)perylene	ND	66	
Current and ha	PDEC Limiter		
Surrogate	<u>%REC Limits</u> 76 28-120		
2-Fluorophenol Phenol-d5			
2,4,6-Tribromophenol Nitrobenzene-d5	96 20-120 72 39-120		
2-Fluorobiphenyl	76 44-120		
Terphenyl-d14	80 39-120		



	Semivolatile Organics by GC/MS							
Lab #:	196141	Location:	Hanson Radum					
Client:	LFR Levine Fricke	Prep:	EPA 3550B					
Project#:	001-09567-01	Analysis:	EPA 8270C					
Field ID:	SS-31(B)-10.5	Batch#:	127543					
Lab ID:	196141-002	Sampled:	07/19/07					
Matrix:	Soil	Received:	07/20/07					
Units:	ug/Kg	Prepared:	07/24/07					
Basis:	as received	Analyzed:	07/25/07					
Diln Fac:	50.00	_						

N-Nitrosodimethylamine ND 16,000 Dhenol ND 16,000 Dis(2-Chloroethyl)ether ND 16,000 2-Chlorophenol ND 16,000 1,4-Dichlorobenzene ND 16,000 1,2-Dichlorobenzene ND 16,000 1/a-Dichlorobenzene ND 16,000 N-Nitroso-di-n-propylamine ND 16,000 Nitrobenzene ND 16,000 2-ADimethylphenol ND 16,000 2-ADimethylphenol ND 16,000 2,4-Dimethylphenol ND 16,000 2,4-Dimethylphenol ND 16,000 2,4-Dimethylphenol ND 16,000 2,4-Diroethaxylmethalene ND 16,000 2,4-Diroethaxylmethalene	Analyte	Result	RL
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4-Chloro-3-methylphenolND16,0002-MethylnaphthaleneND3,3002-AethylnaphthaleneND33,0002,4,6-TrichlorophenolND16,0002.4,5-TrichlorophenolND16,0002-ChloronaphthaleneND16,0002-NitroanilineND33,000DimethylphthalateND33,000AcenaphtyleneND16,0003-NitroanilineND33,0002,6-DinitrotolueneND3,3002,4-DinitrophenolND33,000AcenaphtheneND3,3002,4-DinitrophenolND33,000AcenaphthaleneND33,000AcenaphtheneND33,0002,4-DinitrotolueneND33,000DimethylphthalateND33,0004-NitrophenolND33,000DihenzofuranND16,000DiethylphthalateND3,300FluoreneND3,000V-NitroanilineND3,000ND3,0003,000ND3,000N-Nitrosodiphenyl-phenyletherND3,000N-NitrosodiphenylamineND16,000A-SbenzeneND16,000A-SbenzeneND16,000A-Bromophenyl-phenyletherND16,000HexachlorobenzeneND16,000HexachlorobenzeneND3,300PhenanthreneND3,300			
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2,4,6-TrichlorophenolND16,0002,4,5-TrichlorophenolND16,0002-ChloronaphthaleneND33,000DimethylphthalateND33,000DimethylphthalateND3,3002,6-DinitrotolueneND33,0003-NitroanilineND33,000AcenaphthyleneND33,0003-NitroanilineND33,000AcenaphtheneND33,0004-NitrophenolND33,0004-NitrophenolND33,0002,4-DinitrotolueneND33,0004-NitrophenolND33,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND33,0004-Chlorophenyl-phenyletherND33,0004-Chlorophenyl-phenyletherND33,0004,6-Dinitro-2-methylphenolND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,0004-Bromophenyl-phenyletherND16,000HexachlorobenzeneND16,000HexachlorobenzeneND33,000PentachlorophenolND33,000PhenanthreneND33,000		ND	3,300
2,4,6-TrichlorophenolND16,0002,4,5-TrichlorophenolND16,0002-ChloronaphthaleneND33,000DimethylphthalateND33,000DimethylphthalateND3,3002,6-DinitrotolueneND33,0003-NitroanilineND33,000AcenaphthyleneND33,0003-NitroanilineND33,000AcenaphtheneND33,0004-NitrophenolND33,0004-NitrophenolND33,0002,4-DinitrotolueneND33,0004-NitrophenolND33,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND33,0004-Chlorophenyl-phenyletherND33,0004-Chlorophenyl-phenyletherND33,0004,6-Dinitro-2-methylphenolND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,0004-Bromophenyl-phenyletherND16,000HexachlorobenzeneND16,000HexachlorobenzeneND33,000PentachlorophenolND33,000PhenanthreneND33,000	Hexachlorocyclopentadiene	ND	33,000
2,4,5-TrichlorophenolND16,0002-ChloronaphthaleneND16,0002-NitroanilineND33,000DimethylphthalateND16,000AcenaphthyleneND3,3002,6-DinitrotolueneND16,0003-NitroanilineND33,000AcenaphtheneND33,000AcenaphteneND33,000AcenaphteneND33,000AcenaphteneND33,0004-NitrophenolND33,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND33,0004-Chlorophenyl-phenyletherND33,0004-Chlorophenyl-phenyletherND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,0004-Bromophenyl-phenyletherND16,0004-Bromophenyl-phenyletherND16,000HexachlorophenolND33,000PentachlorophenolND33,000PentachlorophenolND33,000PhenathreneND33,000		ND	16,000
2-ChloronaphthaleneND16,0002-NitroanilineND33,000DimethylphthalateND16,000AcenaphthyleneND3,3002,6-DinitrotolueneND16,0003-NitroanilineND33,000AcenaphtheneND33,0002,4-DinitrophenolND33,0004-NitrophenolND33,000DiebenzofuranND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,0004,6-Dinitro-z-methylphenolND3,3004-Chlorophenyl-phenyletherND33,0004-SourceND16,0004-StroanilineND16,000N-NitrosodiphenylamineND16,000AzobenzeneND16,0004-Bromophenyl-phenyletherND16,000HexachlorobenzeneND16,000PentachlorophenolND33,000PhenanthreneND33,000		ND	
2-NitroanilineND33,000DimethylphthalateND16,000AcenaphthyleneND3,3002,6-DinitrotolueneND16,0003-NitroanilineND33,000AcenaphtheneND3,3002,4-DinitrophenolND33,0004-NitrophenolND33,000016,00033,000016,00016,0002,4-DinitrotolueneND16,000016,00016,00014-NitrophenolND16,00015-LoreneND16,00016-Chlorophenyl-phenyletherND33,0004-Chlorophenyl-phenyletherND33,0004,6-Dinitro-2-methylphenolND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,0004-Bromophenyl-phenyletherND16,0004-Bromophenyl-phenyletherND33,000HexachlorobenzeneND16,000PentachlorophenolND33,000PhenanthreneND33,000		ND	
DimethylphthalateND16,000AcenaphthyleneND3,3002,6-DinitrotolueneND16,0003-NitroanilineND33,000AcenaphtheneND3,3002,4-DinitrophenolND33,0004-NitrophenolND33,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,000FluoreneND33,0004-Chlorophenyl-phenyletherND33,0004-Chlorophenyl-phenyletherND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,0004-Bromophenyl-phenyletherND16,000HexachlorobenzeneND16,000PentachlorophenolND33,000PhenanthreneND33,000			
AcenaphthyleneND3,3002,6-DinitrotolueneND16,0003-NitroanilineND33,000AcenaphtheneND3,3002,4-DinitrophenolND33,0004-NitrophenolND33,000DibenzofuranND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,000JethylphthalateND16,000FluoreneND33,0004-NitroanilineND33,0004,6-Dinitro-2-methylphenolND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,000HexachlorobenzeneND16,000HexachlorobenzeneND33,000PhenanthreneND33,000			
2,6-DinitrotolueneND16,0003-NitroanilineND33,000AcenaphtheneND3,3002,4-DinitrophenolND33,0004-NitrophenolND33,000DibenzofuranND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,0002,4-DinitrotolueneND16,0004-Chlorophenyl-phenyletherND33,0004-Chlorophenyl-phenyletherND33,0004,6-Dinitro-2-methylphenolND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,000Hexachlorophenyl-phenyletherND16,000HexachlorophenolND33,000PhenanthreneND33,000			3 300
3-NitroanilineND33,000AcenaphtheneND3,3002,4-DinitrophenolND33,0004-NitrophenolND33,000DibenzofuranND16,0002,4-DinitrotolueneND16,000DiethylphthalateND16,000FluoreneND3,3004-Chlorophenyl-phenyletherND33,0004,6-Dinitro-2-methylphenolND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,000AzobenzeneND16,000Hexachlorophenyl-phenyletherND16,000PentachlorophenolND33,000HexachlorophenolND33,000PhenanthreneND33,000			
AcenaphtheneND3,3002,4-DinitrophenolND33,0004-NitrophenolND33,000DibenzofuranND16,0002,4-DinitrotolueneND16,000DiethylphthalateND16,000FluoreneND3,3004-Chlorophenyl-phenyletherND33,0004,6-Dinitro-2-methylphenolND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,000HexachlorobenzeneND16,000PentachlorophenolND33,000HexachlorophenolND33,000HexachlorophenolND33,000PhenanthreneND33,000			
2,4-DinitrophenolND33,0004-NitrophenolND33,000DibenzofuranND16,0002,4-DinitrotolueneND16,000DiethylphthalateND16,000FluoreneND3,3004-Chlorophenyl-phenyletherND33,0004,6-Dinitro-2-methylphenolND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,0004-Bromophenyl-phenyletherND16,000PentachlorophenolND16,0004-Bromophenyl-phenyletherND16,000HexachlorobenzeneND16,000HenanthreneND33,000			
4-NitrophenolND33,000DibenzofuranND16,0002,4-DinitrotolueneND16,000DiethylphthalateND16,000FluoreneND3,3004-Chlorophenyl-phenyletherND33,0004-NitroanilineND33,0004,6-Dinitro-2-methylphenolND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,000HexachlorobenzeneND16,000PentachlorophenolND33,000PhenanthreneND33,000			
DibenzofuranND16,0002,4-DinitrotolueneND16,000DiethylphthalateND16,000FluoreneND3,3004-Chlorophenyl-phenyletherND16,0004-NitroanilineND33,0004,6-Dinitro-2-methylphenolND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,000HexachlorobenzeneND16,000PentachlorophenolND33,000PhenanthreneND33,000			
2,4-DinitrotolueneND16,000DiethylphthalateND16,000FluoreneND3,3004-Chlorophenyl-phenyletherND16,0004-NitroanilineND33,0004,6-Dinitro-2-methylphenolND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,0004-Bromophenyl-phenyletherND16,000HexachlorobenzeneND16,000PentachlorophenolND33,000PhenanthreneND33,000			
DiethylphthalateND16,000FluoreneND3,3004-Chlorophenyl-phenyletherND16,0004-NitroanilineND33,0004,6-Dinitro-2-methylphenolND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,0004-Bromophenyl-phenyletherND16,000HexachlorobenzeneND16,000PentachlorophenolND33,000PhenanthreneND33,000			
FluoreneND3,3004-Chlorophenyl-phenyletherND16,0004-NitroanilineND33,0004,6-Dinitro-2-methylphenolND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,0004-Bromophenyl-phenyletherND16,000HexachlorobenzeneND16,000PentachlorophenolND33,000PhenanthreneND33,000			
4-Chlorophenyl-phenyletherND16,0004-NitroanilineND33,0004,6-Dinitro-2-methylphenolND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,0004-Bromophenyl-phenyletherND16,000HexachlorobenzeneND16,000PentachlorophenolND33,000PhenanthreneND33,000	Diethylphthalate	ND	16,000
4-NitroanilineND33,0004,6-Dinitro-2-methylphenolND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,0004-Bromophenyl-phenyletherND16,000HexachlorobenzeneND16,000PentachlorophenolND33,000PhenanthreneND3,300		ND	3,300
4-NitroanilineND33,0004,6-Dinitro-2-methylphenolND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,0004-Bromophenyl-phenyletherND16,000HexachlorobenzeneND16,000PentachlorophenolND33,000PhenanthreneND3,300	4-Chlorophenyl-phenylether	ND	16,000
4,6-Dinitro-2-methylphenolND33,000N-NitrosodiphenylamineND16,000AzobenzeneND16,0004-Bromophenyl-phenyletherND16,000HexachlorobenzeneND16,000PentachlorophenolND33,000PhenanthreneND3,300		ND	33,000
N-NitrosodiphenylamineND16,000AzobenzeneND16,0004-Bromophenyl-phenyletherND16,000HexachlorobenzeneND16,000PentachlorophenolND33,000PhenanthreneND3,300			
AzobenzeneND16,0004-Bromophenyl-phenyletherND16,000HexachlorobenzeneND16,000PentachlorophenolND33,000PhenanthreneND3,300			
4-Bromophenyl-phenyletherND16,000HexachlorobenzeneND16,000PentachlorophenolND33,000PhenanthreneND3,300			
HexachlorobenzeneND16,000PentachlorophenolND33,000PhenanthreneND3,300			
PentachlorophenolND33,000PhenanthreneND3,300			
Phenanthrene ND 3,300			
Antirracene ND 3,300			
	Anthradene	ND	3,300

DO= Diluted Out ND= Not Detected RL= Reporting Limit Page 1 of 2



Semivolatile Organics by GC/MS						
Lab #: Client:	196141 LFR Levine Fricke	Location:	Hanson Radum EPA 3550B			
Project#:	001-09567-01	Prep: Analysis:	EPA 8270C			
Field ID:	SS-31(B)-10.5	Batch#:	127543			
Lab ID:	196141-002	Sampled:	07/19/07			
Matrix:	Soil	Received:	07/20/07			
Units:	ug/Kg	Prepared:	07/24/07			
Basis: Diln Fac:	as received 50.00	Analyzed:	07/25/07			

Analyte	Result	RL	
Di-n-butylphthalate	ND	16,000	
Fluoranthene	ND	3,300	
Pyrene	ND	3,300	
Butylbenzylphthalate	ND	16,000	
3,3'-Dichlorobenzidine	ND	33,000	
Benzo(a)anthracene	ND	3,300	
Chrysene	ND	3,300	
bis(2-Ethylhexyl)phthalate	ND	16,000	
Di-n-octylphthalate	ND	16,000	
Benzo(b)fluoranthene	ND	3,300	
Benzo(k)fluoranthene	ND	3,300	
Benzo(a)pyrene	ND	3,300	
Indeno(1,2,3-cd)pyrene	ND	3,300	
Dibenz(a,h)anthracene	ND	3,300	
Benzo(g,h,i)perylene	ND	3,300	
Surrogate	%REC Limits		

Surrogate	%REC	Limits
2-Fluorophenol	DO	28-120
Phenol-d5	DO	30-120
2,4,6-Tribromophenol	DO	20-120
Nitrobenzene-d5	DO	39–120
2-Fluorobiphenyl	DO	44-120
Terphenyl-d14	DO	39-120



	Semivolatile Organics by GC/MS				
Lab #:	196141	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3550B		
Project#:	001-09567-01	Analysis:	EPA 8270C		
Type:	BLANK	Diln Fac:	1.000		
Lab ID:	QC397616	Batch#:	127543		
Matrix:	Soil	Prepared:	07/24/07		
Units:	uq/Kq	Analyzed:	07/24/07		
Basis:	as received	-			

Analyte	Result	RL	
N-Nitrosodimethylamine	ND	330	
Phenol	ND	330	
bis(2-Chloroethyl)ether	ND	330	
2-Chlorophenol	ND	330	
1,3-Dichlorobenzene	ND	330	
1,4-Dichlorobenzene	ND	330	
Benzyl alcohol	ND	330	
1,2-Dichlorobenzene	ND	330	
2-Methylphenol	ND	330	
bis(2-Chloroisopropyl) ether	ND	330	
4-Methylphenol	ND	330	
N-Nitroso-di-n-propylamine	ND	330	
Hexachloroethane	ND	330	
Nitrobenzene	ND ND	330	
Isophorone	ND	330 660	
2-Nitrophenol	ND		
2,4-Dimethylphenol	ND	330	
Benzoic acid	ND	1,700	
bis(2-Chloroethoxy)methane	ND	330	
2,4-Dichlorophenol	ND	330	
1,2,4-Trichlorobenzene	ND	330	
Naphthalene	ND	66	
4-Chloroaniline	ND	330	
Hexachlorobutadiene	ND	330	
4-Chloro-3-methylphenol	ND	330	
2-Methylnaphthalene	ND	66	
Hexachlorocyclopentadiene	ND	660	
2,4,6-Trichlorophenol	ND	330	
2,4,5-Trichlorophenol	ND	330	
2-Chloronaphthalene	ND	330	
2-Nitroaniline	ND	660	
Dimethylphthalate	ND	330	
Acenaphthylene	ND	66	
2,6-Dinitrotoluene	ND	330	
3-Nitroaniline	ND	660	
Acenaphthene	ND	66	
2,4-Dinitrophenol	ND	660	
4-Nitrophenol	ND	660	
Dibenzofuran	ND	330	
2,4-Dinitrotoluene	ND	330	
Diethylphthalate	ND	330	
Fluorene	ND	66	
4-Chlorophenyl-phenylether	ND	330	
4-Nitroaniline	ND	660	
4,6-Dinitro-2-methylphenol	ND	660	
N-Nitrosodiphenylamine	ND	330	
Azobenzene	ND	330	
4-Bromophenyl-phenylether	ND	330	
Hexachlorobenzene	ND	330	
Pentachlorophenol	ND	660	
Phenanthrene	ND	66	
Anthracene	ND	66	
Di-n-butylphthalate	ND	330	
Dr in Dacy Pricilarace		550	

ND= Not Detected RL= Reporting Limit



	Semivolatile Organics by GC/MS				
Lab #:	196141	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3550B		
Project#:	001-09567-01	Analysis:	EPA 8270C		
Type: Lab ID:	BLANK	Diln Fac:	1.000		
Lab ID:	QC397616	Batch#:	127543		
Matrix:	Soil	Prepared:	07/24/07		
Units:	ug/Kg	Analyzed:	07/24/07		
Basis:	as received	_			

Analyte	Result	RL	
Fluoranthene	ND	66	
Pyrene	ND	66	
Butylbenzylphthalate	ND	330	
3,3'-Dichlorobenzidine	ND	660	
Benzo(a)anthracene	ND	66	
Chrysene	ND	66	
bis(2-Ethylhexyl)phthalate	ND	330	
Di-n-octylphthalate	ND	330	
Benzo(b)fluoranthene	ND	66	
Benzo(k)fluoranthene	ND	66	
Benzo(a)pyrene	ND	66	
Indeno(1,2,3-cd)pyrene	ND	66	
Dibenz(a,h)anthracene	ND	66	
Benzo(g,h,i)perylene	ND	66	
Currence mode o	%REC Limits		
Surrogate			
2-Fluorophenol Phenol-d5			
2,4,6-Tribromophenol			
Nitrobenzene-d5	69 39-120 78 44 120		
2-Fluorobiphenyl	78 44-120 73 39-120		
Terphenyl-d14	73 39-120		



	Semivolatile Organics by GC/MS				
Lab #:	196141	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3550B		
Project#:	001-09567-01	Analysis:	EPA 8270C		
Type:	LCS	Diln Fac:	1.000		
Lab ID:	QC397617	Batch#:	127543		
Matrix:	Soil	Prepared:	07/24/07		
Units:	ug/Kg	Analyzed:	07/24/07		
Basis:	as received				

Analyte	Spiked	Result	%REC	Limits
Phenol	2,655	1,849	70	40-120
2-Chlorophenol	2,655	1,833	69	40-120
1,4-Dichlorobenzene	1,328	1,047	79	45-120
N-Nitroso-di-n-propylamine	1,328	824.0	62	34-120
1,2,4-Trichlorobenzene	1,328	1,094	82	45-120
4-Chloro-3-methylphenol	2,655	2,184	82	45-120
Acenaphthene	1,328	1,020	77	42-120
4-Nitrophenol	2,655	1,856	70	31-120
2,4-Dinitrotoluene	1,328	1,196	90	41-120
Pentachlorophenol	2,655	2,245	85	21-120
Pyrene	1,328	1,094	82	41-120

Surrogate	%REC	Limits
2-Fluorophenol	66	28-120
Phenol-d5	68	30-120
2,4,6-Tribromophenol	102	20-120
Nitrobenzene-d5	68	39-120
2-Fluorobiphenyl	75	44-120
Terphenyl-d14	76	39-120



Organochlorine Pesticides				
Lab #:	196141	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8081A	
Field ID:	SS-31(B)-5.5	Batch#:	127544	
Lab ID:	196141-001	Sampled:	07/19/07	
Matrix:	Soil	Received:	07/20/07	
Units:	ug/Kg	Prepared:	07/24/07	
Basis:	as received	Analyzed:	07/25/07	
Diln Fac:	1.000			

Cleanup Method: EPA 3620B

Analyte	Result	RL	
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.3	
4,4'-DDE	ND	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin aldehyde	ND	3.3	
4,4'-DDT	ND	3.3	
alpha-Chlordane	ND	1.7	
gamma-Chlordane	ND	1.7	
Methoxychlor	ND	17	
Toxaphene	ND	60	

Surrogate	%REC	Limits
TCMX	97	50-120
Decachlorobiphenyl	93	54-133



Organochlorine Pesticides			
Lab #:	196141	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 3550B
Project#:	001-09567-01	Analysis:	EPA 8081A
Field ID:	SS-31(B)-10.5	Batch#:	127544
Lab ID:	196141-002	Sampled:	07/19/07
Matrix:	Soil	Received:	07/20/07
Units:	ug/Kg	Prepared:	07/24/07
Basis:	as received	Analyzed:	07/25/07
Diln Fac:	1.000		

Cleanup Method: EPA 3620B

Analyte	Result	RL	
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.3	
4,4'-DDE	ND	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin aldehyde	ND	3.3	
4,4'-DDT	ND	3.3	
alpha-Chlordane	ND	1.7	
gamma-Chlordane	ND	1.7	
Methoxychlor	ND	17	
Toxaphene	ND	60	

Surrogate	%REC	Limits
TCMX	97	50-120
Decachlorobiphenyl	104	54-133



Organochlorine Pesticides				
Lab #:	196141	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8081A	
Type:	BLANK	Diln Fac:	1.000	
Lab ID:	QC397620	Batch#:	127544	
Matrix:	Soil	Prepared:	07/24/07	
Units:	ug/Kg	Analyzed:	07/25/07	
Basis:	as received			

Cleanup Method: EPA 3620B

Analyte	Result	RL	
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.3	
4,4'-DDE	ND	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin aldehyde	ND	3.3	
4,4'-DDT	ND	3.3	
alpha-Chlordane	ND	1.7	
gamma-Chlordane	ND	1.7	
Methoxychlor	ND	17	
Toxaphene	ND	59	

Surrogate	%REC	Limits
TCMX	106	50-120
Decachlorobiphenyl	88	54-133



	Organochlorine Pesticides							
Lab #:	196141	Location:	Hanson Radum					
Client:	LFR Levine Fricke	Prep:	EPA 3550B					
Project#:	001-09567-01	Analysis:	EPA 8081A					
Field ID:	ZZZZZZZZZ	Batch#:	127544					
MSS Lab ID:	196123-001	Sampled:	07/20/07					
Matrix:	Soil	Received:	07/20/07					
Units:	ug/Kg	Prepared:	07/24/07					
Basis:	as received	Analyzed:	07/31/07					
Diln Fac:	1.000							

Type: Lab ID: MS QC397624 Cleanup Method: EPA 3620B

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.3348	13.35	13.03	98	45-120
Heptachlor	<0.4037	13.35	13.76	103	50-124
Aldrin	<0.2824	13.35	12.72 #	95	47-122
Dieldrin	<0.7589	26.70	26.48	99	47-122
Endrin	<1.077	26.70	27.03 #	101	46-127
4,4'-DDT	<0.7880	26.70	24.63	92	27-136

Surrogate	%REC	Limits
TCMX	110	50-120
Decachlorobiphenyl	116	54-133

Type: Lab ID: MSD QC397625 Cleanup Method: EPA 3620B

Analyte Spiked Result %REC Limits RPD Lim 13.29 13.27 100 45-120 2 gamma-BHC 39 Heptachlor 13.29 14.11 50-124 106 3 37 Aldrin 13.29 12.40 # 47-122 2 93 35 Dieldrin 26.59 26.61 100 47-122 1 34 Endrin 26.59 27.36 # 103 46-127 2 37 4,4'-DDT 49 26.59 25.73 97 27-136 5

Surrogate	%REC	Limits	
TCMX	115	50-120	
Decachlorobiphenyl	120	54-133	

#= CCV drift outside limits; average CCV drift within limits per method requirements RPD= Relative Percent Difference Page 1 of 1



	Organochlorine Pesticides								
Lab #:	196141	Location:	Hanson Radum						
Client:	LFR Levine Fricke	Prep:	EPA 3550B						
Project#:	001-09567-01	Analysis:	EPA 8081A						
Type:	LCS	Diln Fac:	1.000						
Lab ID:	QC397626	Batch#:	127544						
Matrix:	Soil	Prepared:	07/24/07						
Units:	ug/Kg	Analyzed:	07/25/07						
Basis:	as received								

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	13.24	12.71	96	42-120
Heptachlor	13.24	14.08	106	44-130
Aldrin	13.24	12.26	93	47-120
Dieldrin	26.47	27.44	104	50-121
Endrin	26.47	27.39	103	39-130
4,4'-DDT	26.47	29.05	110	45-127

Surrogate	%REC	Limits
TCMX	100	50-120
Decachlorobiphenyl	85	54-133



	Polychlorinated	Biphenyls (I	PCBs)
Lab #:	196141	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 3550B
Project#:	001-09567-01	Analysis:	EPA 8082
Matrix:	Soil	Batch#:	127544
Units:	ug/Kg	Sampled:	07/19/07
Basis:	as received	Received:	07/20/07
Diln Fac:	1.000	Prepared:	07/24/07

Field ID: Type:	SS-31(B)-5.5 SAMPLE		Lab ID: Analyzed:	196141-001 07/25/07
An	alyte	Result	RL	
Aroclor-1016		ND	12	
Aroclor-1221		ND	24	
Aroclor-1232		ND	12	
Aroclor-1242		ND	12	
Aroclor-1248		ND	12	
Aroclor-1254		ND	12	
Aroclor-1260		ND	12	

Surrogate	%REC	Limits
TCMX	107	63-141
Decachlorobiphenyl	89	50-158

Field ID: Type:	SS-31(B)-10.5 SAMPLE		Lab ID: Analyzed:	196141-002 07/25/07
Anal Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	•	Result ND ND ND ND ND ND ND		L 12 24 12 12 12 12 12
TCMX Decachlorobiphe		%REC Limits 124 63-141 117 50-158		
Type: Lab ID:	BLANK QC397620		Analyzed:	07/24/07
Anal Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	Lyte	Result ND ND ND ND ND ND ND ND		L 12 24 12 12 12 12 12 12
Surro TCMX Decachlorobiphe	ogate enyl	%RECLimits12063-14111650-158		



	Polychlorinated	Biphenyls (PC	Bs)
Lab #:	196141	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 3550B
Project#:	001-09567-01	Analysis:	EPA 8082
Туре:	LCS	Diln Fac:	1.000
Lab ID:	QC397621	Batch#:	127544
Matrix:	Soil	Prepared:	07/24/07
Units:	ug/Kg	Analyzed:	07/24/07
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Aroclor-1232	166.2	185.4	112	68-138

Surrogate	%REC	Limits
TCMX	105	63-141
Decachlorobiphenyl	98	50-158



	Polychlorinated	Biphenyls (PC	CBs)
Lab #:	196141	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 3550B
Project#:	001-09567-01	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZ	Batch#:	127544
MSS Lab ID:	196123-001	Sampled:	07/20/07
Matrix:	Soil	Received:	07/20/07
Units:	ug/Kg	Prepared:	07/24/07
Basis:	as received	Analyzed:	07/24/07
Diln Fac:	1.000		

Type:	MS			Lab ID:	QC39'	7622			
	Analyte	MSS Res		Spiked		esult	%REC	Limi	
Aroclor	-1232	<1	.312	167.7	-	178.5	106	72-1	40
	Surrogate	%REC	Limits						
TCMX		106	63-141						
Decachlo	orobiphenyl	84	50-158						
Туре:	MSD			Lab ID:	QC39'	7623			
	Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Aroclor	-1232		168.2		175.6	104	72-140	2	27
	Surrogate	%REC	Limits						
TCMX		101	63-141						
Decachlo	orobiphenyl	78	50-158						



California Title 26 Metals						
Lab #:	196141		Project#:	001-09567-01		
Client:	LFR Levine Fric	cke	Location:	Hanson Radum		
Field ID:	SS-31(B)-5.5		Basis:	as received		
Lab ID:	196141-001		Diln Fac:	1.000		
Matrix:	Soil		Sampled:	07/19/07		
Units:	mg/Kg		Received:	07/20/07		
Analyte	Result	RL	Batch# Prepared	Analyzed Prep	Apolygia	
	1.6	0.50	127538 07/23/07	Analyzed Prep 07/24/07 EPA 3050B	Analysis EPA 6010B	
Antimony Arsenic	1.0 6.6	0.50	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B EPA 6010B	
Barium	6.6 180	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B EPA 6010B	
Beryllium	0.40	0.10	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Cadmium	ND	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Chromium	65	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Cobalt	16	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Copper	34	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Lead	11	0.15	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Mercury	0.072	0.020	127600 07/25/07	07/25/07 METHOD	EPA 7471A	
Molybdenum	0.31	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Nickel	100	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Selenium	ND	0.50	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Silver	ND	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Thallium	ND	0.50	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Vanadium	34	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Zinc	63	1.0	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	



California Title 26 Metals						
Lab #:	196141		Project#:	001-09567-01		
Client:	LFR Levine Fric	cke	Location:	Hanson Radum		
Field ID:	SS-31(B)-10.5		Basis:	as received		
Lab ID:	196141-002		Diln Fac:	1.000		
Matrix:	Soil		Sampled:	07/19/07		
Units:	mg/Kg		Received:	07/20/07		
Analyte	Result	RL	Batch# Prepared	Analyzed Prep	Analysis	
Antimony	1.8	0.50	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Arsenic	5.6	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Barium	150	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Beryllium	0.37	0.10	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Cadmium	ND	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Chromium	59	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Cobalt	12	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Copper	28	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Lead	8.2	0.15	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Mercury	0.052	0.020	127600 07/25/07	07/25/07 METHOD	EPA 7471A	
Molybdenum	ND	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Nickel	90	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Selenium	ND	0.50	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Silver	ND	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Thallium	ND	0.50	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Vanadium	32	0.25	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	
Zinc	53	1.0	127538 07/23/07	07/24/07 EPA 3050B	EPA 6010B	



	Californ	nia Title 26 Meta	ls	
Lab #:	196141	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3050B	
Project#:	001-09567-01	Analysis:	EPA 6010B	
Type:	BLANK	Diln Fac:	1.000	
Lab ID:	QC397594	Batch#:	127538	
Matrix:	Soil	Prepared:	07/23/07	
Units:	mg/Kg	Analyzed:	07/24/07	
Basis:	as received			

Analyte	Result	RL	
Antimony	ND	0.50	
Arsenic	ND	0.25	
Barium	ND	0.25	
Beryllium	ND	0.10	
Cadmium	ND	0.25	
Chromium	ND	0.25	
Cobalt	ND	0.25	
Copper	ND	0.25	
Lead	ND	0.15	
Molybdenum	ND	0.25	
Nickel	ND	0.25	
Selenium	ND	0.50	
Silver	ND	0.25	
Thallium	ND	0.50	
Vanadium	ND	0.25	
Zinc	ND	1.0	

ND= Not Detected RL= Reporting Limit Page 1 of 1



	Californ	nia Title 26 Meta	ls	
Lab #: Client: Project#:	196141 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 3050B EPA 6010B	
Matrix: Units: Basis: Diln Fac:	Soil mg/Kg as received 1.000	Batch#: Prepared: Analyzed:	127538 07/23/07 07/24/07	

Type: BS	Lab ID:	QC3975	95	
Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	96.62	97	80-120
Arsenic	50.00	48.33	97	80-120
Barium	100.0	96.91	97	80-120
Beryllium	2.500	2.475	99	80-120
Cadmium	10.00	9.911	99	80-120
Chromium	100.0	96.08	96	80-120
Cobalt	25.00	23.42	94	80-120
Copper	12.50	12.02	96	80-120
Lead	100.0	95.52	96	80-120
Molybdenum	20.00	20.59	103	80-120
Nickel	25.00	23.60	94	80-120
Selenium	50.00	48.48	97	80-120
Silver	10.00	9.566	96	80-120
Thallium	50.00	48.08	96	80-120
Vanadium	25.00	24.11	96	80-120
Zinc	25.00	24.39	98	80-120

Туре:	BSD	Lab ID:	QC397	596			
A	nalyte	Spiked	Result	%REC	Limits	RPD	
Antimony		100.0	97.28	97	80-120	1	20
Arsenic		50.00	48.64	97	80-120	1	20
Barium		100.0	97.30	97	80-120	0	20
Beryllium		2.500	2.490	100	80-120	1	20
Cadmium		10.00	9.879	99	80-120	0	20
Chromium		100.0	96.36	96	80-120	0	20
Cobalt		25.00	23.60	94	80-120	1	20
Copper		12.50	12.42	99	80-120	3	20
Lead		100.0	96.12	96	80-120	1	20
Molybdenum		20.00	20.50	102	80-120	0	20
Nickel		25.00	23.68	95	80-120	0	20
Selenium		50.00	49.11	98	80-120	1	20
Silver		10.00	9.464	95	80-120	1	20
Thallium		50.00	48.76	98	80-120	1	20
Vanadium		25.00	24.19	97	80-120	0	20
Zinc		25.00	24.45	98	80-120	0	20



	Califor	nia Title 26 Metal	ls	
Lab #:	196141	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3050B	
Project#:	001-09567-01	Analysis:	EPA 6010B	
Field ID:	ZZZZZZZZZZ	Batch#:	127538	
MSS Lab ID:	196071-003	Sampled:	07/17/07	
Matrix:	Soil	Received:	07/19/07	
Units:	mg/Kg	Prepared:	07/23/07	
Basis:	as received	Analyzed:	07/24/07	
Diln Fac:	1.000	-		

Туре:	MS	Lab I	D: QC397	597	
Analyt	e MSS F	Result Spik			Limits
Antimony		0.9685 90	.09 26	.49 28	1-129
Arsenic		2.564 45	.05 45	.21 95	72-120
Barium	13	31.7 90	.09 221	.9 100	49-138
Beryllium		0.3335 2	.252 2	.450 94	80-120
Cadmium	2,33	33 9	.009 1,526	>LR -8959 NM	72-120
Chromium	1,60	90	.09 1,687	>LR 92 NM	63-122
Cobalt		8.121 22	.52 26	.35 81	61-120
Copper	1,42	23 11	.26 1,257	>LR -1472 NM	59-137
Lead	2	20.15 90	.09 94	.42 82	55-122
Molybdenum		1.377 18	.02 18	.08 93	66-120
Nickel		30.05 22	.52 46	.93 75	45-139
Selenium	<	0.07345 45	.05 42	.21 94	73-120
Silver		0.1510 9	.009 9	.039 99	53-120
Thallium		0.04788 45	.05 37	.27 83	64-120
Vanadium	4	1.10 22	.52 64	.28 103	55-139
Zinc	36	59.5 <u>22</u>	.52 347	.9 -96 NM	49-140

Type:	MSD	Lab ID:	QC397	7598			
Z	Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony		96.15	27.27	27	1-129	4	23
Arsenic		48.08	46.11	91	72-120	4	20
Barium		96.15	224.4	96	49-138	2	23
Beryllium		2.404	2.529	91	80-120	3	20
Cadmium		9.615	1,664 >LR	-6957 NM	72-120	NC	20
Chromium		96.15	1,650 >LR	48 NM	63-122	NC	20
Cobalt		24.04	27.10	79	61-120	2	23
Copper		12.02	1,351 >LR	-599 NM	59-137	NC	20
Lead		96.15	98.95	82	55-122	1	26
Molybdenum		19.23	18.74	90	66-120	2	20
Nickel		24.04	48.88	78	45-139	1	26
Selenium		48.08	43.73	91	73-120	3	20
Silver		9.615	9.354	96	53-120	3	22
Thallium		48.08	39.07	81	64-120	2	20
Vanadium		24.04	65.96	103	55-139	0	20
Zinc		24.04	394.1	102 NM	49-140	12	23

NC= Not Calculated NM= Not Meaningful: Sample concentration > 4X spike concentration >LR= Response exceeds instrument's linear range RPD= Relative Percent Difference Page 1 of 1



Tab H.	100141	Location:	Hanson Radum	
Lab #:	196141	Location.	Hanson Radulli	
Client:	LFR Levine Fricke	Prep:	METHOD	
Project#:	001-09567-01	Analysis:	EPA 7471A	
Analyte:	Mercury	Basis:	as received	
Type:	BLANK	Diln Fac:	1.000	
Lab ID:	QC397831	Batch#:	127600	
Matrix:	Soil	Prepared:	07/25/07	
Units:	mg/Kg	Analyzed:	07/25/07	

Result	RL	
ND	0.020	

ND= Not Detected RL= Reporting Limit Page 1 of 1



	Californ	nia Title 26 Meta	ls	
Lab #:	196141	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	METHOD	
Project#:	001-09567-01	Analysis:	EPA 7471A	
Analyte:	Mercury	Diln Fac:	1.000	
Matrix:	Soil	Batch#:	127600	
Units:	mg/Kg	Prepared:	07/25/07	
Basis:	as received	Analyzed:	07/25/07	

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC397832	0.5000	0.4540	91	80-120		
BSD	QC397833	0.5000	0.4240	85	80-120	7	20



QC397836

MSD

	Califo	ornia Title 26 Me	tals				
Lab #:	196141	Location:	Hans	on Radum	1		
Client:	LFR Levine Fricke	Prep:	METH	DD			
Project#:	001-09567-01	Analysis:	EPA '	7471A			
Analyte:	Mercury	Diln Fac:	1.00	0			
Field ID:	ZZZZZZZZZZ	Batch#:	1276	00			
MSS Lab ID:	196123-001	Sampled:	07/20	0/07			
Matrix:	Soil	Received:	07/20	0/07			
Units:	mg/Kg	Prepared:	07/2	5/07			
Basis:	as received	Analyzed:	07/2	5/07			
Type Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS QC397835	0.08440	0.4808	0.5990	107	67-143		

0.4717

0.4774

83

23

67-143 21



LFR Levine Fricke	Project : 001-09567-01
1900 Powell Street	Location : Hanson Radum
Emeryville, CA 94608	Level : II

Sample ID	<u>Lab ID</u>
SS-31(B)-GGW	196134-001
SS-31(C)-GGW	196134-002
SS-31(C)-5.5	196134-003
SS-31(C)-10.5	196134-004
SS-31(C)-15.5	196134-005
SS-31(C)-19.5	196134-006
SS-31(C)-25.5	196134-007
SS-31(C)-30	196134-008
SS-31(C)-40	196134-009
SS-31(C)-51	196134-010
SS-31(C)-60.5	196134-011
SS-31(C)-67.5	196134-012
SS-31(D)-5.5	196134-013
SS-31(D)-10.5	196134-014
SS-31(D)-15	196134-015
SS-31(D)-19.5	196134-016

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: Project Manager

Signature:

Operations Manager

Date: 07/31/2007

Date: 07/31/2007

NELAP # 01107CA

Page 1 of ____



CASE NARRATIVE

Laboratory number:196134Client:LFR Levine FrickeProject:001-09567-01Location:Hanson RadumRequest Date:07/23/07Samples Received:07/23/07

This hardcopy data package contains sample and QC results for thirteen soil samples and two water samples, requested for the above referenced project on 07/23/07. The samples were received cold and intact. All data were e-mailed to Katrin Schliewen on 07/27/07.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Water:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Water:

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Soil:

No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):

No analytical problems were encountered.

Pesticides (EPA 8081A):

No analytical problems were encountered.

Polychlorinated Biphenyls (PCBs) (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

No analytical problems were encountered.



		Total	Volatil	e Hydrocarbo	ons
Lab #: Client: Project#:	196134 LFR Levine Fr 001-09567-01	icke		Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8015B
Matrix: Units: Basis: Diln Fac:	Soil mg/Kg as received 1.000			Batch#: Sampled: Received:	127519 07/20/07 07/23/07
Field ID: Type:	SS-31(C)-5.5 SAMPLE			Lab ID: Analyzed:	196134-003 07/23/07
	lyte		Result	R	L
Gasoline C7-C12	2	ND)		1.0
Surro	ogate	%REC			
Trifluorotoluer Bromofluorobenz	ne (FID) zene (FID)	99 107	70-132 66-138		
Field ID:	SS-31(C)-10.5	/		Lab ID:	196134-004
Type:	SAMPLE			Analyzed:	07/23/07
	lyte		Result	R	L
Gasoline C7-C12)	NTD	<u>`</u>		1 0
Gasorrie C/-CI2	2	ND)		1.0
	ogate		Limits		1.0
Surro Trifluorotoluer	ogate ne (FID)	% REC 101	Limits 70-132		1.0
Surro	ogate ne (FID)	%REC	Limits		1.0
Surro Trifluorotoluer	ogate ne (FID)	% REC 101	Limits 70-132	Lab ID: Analyzed:	1.0 196134-005 07/23/07
Surro Trifluorotoluer Bromofluorobenz Field ID: Type: Ana	pgate ne (FID) zene (FID) SS-31(C)-15.5 SAMPLE lyte	%REC 101 108	Limits 70-132 66-138 Result	Analyzed:	196134-005 07/23/07 L
Surro Trifluorotoluer Bromofluorobenz Field ID: Type:	pgate ne (FID) zene (FID) SS-31(C)-15.5 SAMPLE lyte	%REC 101 108	Limits 70-132 66-138 Result	Analyzed:	196134-005 07/23/07
Surro Trifluorotoluer Bromofluorobenz Field ID: Type: Ana Gasoline C7-C12	pgate he (FID) zene (FID) SS-31(C)-15.5 SAMPLE lyte 2 pgate he (FID)	%REC 101 108 ND	Limits 70-132 66-138 Result	Analyzed:	196134-005 07/23/07 L
Surro Trifluorotoluer Bromofluorobenz Field ID: Type: Casoline C7-C12 Trifluorotoluer Bromofluorobenz Field ID: Type:	pgate he (FID) zene (FID) SS-31(C)-15.5 SAMPLE lyte 2 pgate he (FID) zene (FID) SS-31(C)-19.5 SAMPLE	%REC 101 108	Limits 70-132 66-138 Result 70-132 66-138	Analyzed: R Lab ID: Analyzed:	196134-005 07/23/07 L 0.98 196134-006 07/23/07
Surro Trifluorotoluer Bromofluorobenz Field ID: Type: Ana: Gasoline C7-C12 Surro Trifluorotoluer Bromofluorobenz Field ID: Type: Ana:	pgate he (FID) zene (FID) SS-31(C)-15.5 SAMPLE lyte 2 pgate he (FID) zene (FID) SS-31(C)-19.5 SAMPLE lyte	%REC 101 108	Limits 70-132 66-138 Result Timits 70-132 66-138 Result	Analyzed: R Lab ID: Analyzed:	196134-005 07/23/07 L 0.98 196134-006 07/23/07 L
Surro Trifluorotoluer Bromofluorobenz Field ID: Type: Ana Gasoline C7-C12 Surro Trifluorotoluer Bromofluorobenz Field ID: Type: Ana Gasoline C7-C12	pgate he (FID) zene (FID) SS-31(C)-15.5 SAMPLE lyte 2 pgate he (FID) zene (FID) SS-31(C)-19.5 SAMPLE lyte 2	*REC 101 108 ND *REC 105 110 ND	Limits 70-132 66-138 Result D Limits 70-132 66-138 Result	Analyzed: R Lab ID: Analyzed:	196134-005 07/23/07 L 0.98 196134-006 07/23/07
Surro Trifluorotoluer Bromofluorobenz Field ID: Type: Ana Gasoline C7-C12 Surro Trifluorotoluer Bromofluorobenz Field ID: Type: Ana Gasoline C7-C12	pgate he (FID) zene (FID) SS-31(C)-15.5 SAMPLE lyte 2 pgate he (FID) zene (FID) SS-31(C)-19.5 SAMPLE lyte 2 pgate	%REC 101 108	Limits 70-132 66-138 Result Timits 70-132 66-138 Result	Analyzed: R Lab ID: Analyzed:	196134-005 07/23/07 L 0.98 196134-006 07/23/07 L



		Total	Volatil	e Hydrocarb	ons	
Lab #: Client: Project#: Matrix:	196134 LFR Levine F 001-09567-01 Soil	ricke		Location: Prep: Analysis: Batch#:	Hanson Radum EPA 5030B EPA 8015B 127519	
Matrix: Units: Basis: Diln Fac:	mg/Kg as received 1.000			Sampled: Received:	07/20/07 07/23/07	
Field ID: Type:	SS-31(C)-25.5 SAMPLE			Lab ID: Analyzed:	196134-007 07/23/07	
Ana	alyte		Result		RL	
Gasoline C7-C1	12	ND)		1.0	
Surr	rogate	%REC	Limits			
Trifluorotolue Bromofluorober	ene (FID) Dzene (FID)	96 107	70-132 66-138			
BIOMOTIUOIODEI		107	00 150			
Field ID: Type:	SS-31(C)-30 SAMPLE			Lab ID: Analyzed:	196134-008 07/23/07	
	alyte		Result]	RL	
Gasoline C7-C1	LZ	ND)		1.0	
Surr	rogate	%REC	Limits		1.0	
Surr Trifluorotolue	rogate ene (FID)	%REC 96	Limits 70-132		1.0	
Surr	rogate ene (FID)	%REC	Limits		1.0	
Surr Trifluorotolue	rogate ene (FID)	%REC 96	Limits 70-132	Lab ID: Analyzed:	1.0 196134-009 07/23/07	
Surr Trifluorotolue Bromofluorober Field ID: Type: Ana	ss-31(C)-40 SAMPLE	%REC 96 107	Limits 70-132 66-138 Result	Analyzed:	196134-009 07/23/07 RL	
Surr Trifluorotolue Bromofluorober Field ID: Type:	ss-31(C)-40 SAMPLE	%REC 96 107	Limits 70-132 66-138 Result	Analyzed:	196134-009 07/23/07	
Surr Trifluorotolue Bromofluorober Field ID: Type: Ana Gasoline C7-C1	cogate ene (FID) nzene (FID) SS-31(C)-40 SAMPLE alyte 12 cogate ene (FID)	%REC 96 107	Limits 70-132 66-138 Result	Analyzed:	196134-009 07/23/07 RL	
Surr Trifluorotolue Bromofluorober Field ID: Type: Casoline C7-C1 Surr Trifluorotolue	cogate ene (FID) nzene (FID) SS-31(C)-40 SAMPLE alyte 12 cogate ene (FID)	%REC 96 107 ND %REC 98	Limits 70-132 66-138 Result D Limits 70-132	Analyzed:	196134-009 07/23/07 RL	
Surr Trifluorotolue Bromofluorober Field ID: Type: Casoline C7-C1 Surr Trifluorotolue Bromofluorober Field ID: Type:	ss-31(C)-40 sAMPLE alyte 12 ss-31(C)-40 sAMPLE cogate ene (FID) nzene (FID) ss-31(C)-51 sAMPLE	%REC 96 107 ND ND %REC 98 106	Limits 70-132 66-138 Result D Limits 70-132 66-138	Analyzed:	196134-009 07/23/07 RL 1.0 196134-010 07/23/07	
Surr Trifluorotolue Bromofluorober Field ID: Type: Casoline C7-C1 Surr Trifluorotolue Bromofluorober Field ID: Type:	<pre>cogate ene (FID) izene (FID) SS-31(C)-40 SAMPLE alyte 12 cogate ene (FID) izene (FID) izene (FID) SS-31(C)-51 SAMPLE alyte</pre>	%REC 96 107 ND ND %REC 98 106	Limits 70-132 66-138 Result D Limits 70-132 66-138 Result	Analyzed:	196134-009 07/23/07 RL 1.0 196134-010	
Surr Trifluorotolue Bromofluorober Field ID: Type: Casoline C7-C1 Surr Trifluorotolue Bromofluorober Field ID: Type: Ana Gasoline C7-C1	<pre>cogate ene (FID) izene (FID) SS-31(C)-40 SAMPLE alyte l2 cogate ene (FID) izene (FI</pre>	%REC 96 107 ND %REC 98 106	Limits 70-132 66-138 Result 70-132 66-138 Result	Analyzed:	196134-009 07/23/07 RL 1.0 196134-010 07/23/07	
Surr Trifluorotolue Bromofluorober Field ID: Type: Casoline C7-C1 Surr Trifluorotolue Bromofluorober Field ID: Type: Ana Gasoline C7-C1	<pre>cogate ene (FID) nzene (FID) SS-31(C)-40 SAMPLE alyte 12 cogate ene (FID) nzene (FID) SS-31(C)-51 SAMPLE alyte 12 cogate ene (FID) cogate ene (FID)</pre>	%REC 96 107 ND %REC 98 106	Limits 70-132 66-138 Result D Limits 70-132 66-138 Result	Analyzed:	196134-009 07/23/07 RL 1.0 196134-010 07/23/07	



		Total	Volatil	e Hydrocarbo	ons	
Lab #:	196134			Location:	Hanson Radum	
Client:	LFR Levine Fr	icke		Prep:	EPA 5030B	
Project#:	001-09567-01			Analysis:	EPA 8015B	
Matrix:	Soil			Batch#:	127519	
Units:	mg/Kg			Sampled	07/20/07	
Basis: Diln Fac:	as received 1.000			Received:	07/23/07	
DIIII Fac.	1.000					
				- 1		
Field ID: Type:	SS-31(C)-60.5 SAMPLE			Lab ID: Analyzed:	196134-011 07/24/07	
туре:	SAMPLE			Analyzeu.	07724707	
Ana Gasoline C7-C1	lyte	NE	Result	F	2L 1.1	
Gasoline C/-CI	2	INL)		1.1	
	ogate	%REC				
Trifluorotolue		102	70-132			
Bromofluoroben	zene (FID)	106	66-138			
Field ID:	SS-31(D)-5.5			Lab ID:	196134-013	
Type:	SAMPLE			Analyzed:	07/24/07	
Ana	lyte		Result	F	2L	
Codoline dr di	1	175				
Gasoline C7-C1	2	ND)		0.96	
					0.96	
Surr	ogate	8REC			0.96	
	ogate ne (FID)	%REC	Limits		0.96	
Surr Trifluorotolue	ogate ne (FID)	%REC 105	Limits 70-132		0.96	
Surr Trifluorotolue	ogate ne (FID)	%REC 105	Limits 70-132		0.96	
Surr Trifluorotolue	ogate ne (FID)	%REC 105	Limits 70-132	Lab ID:	0.96	
Surr Trifluorotolue Bromofluoroben	ogate ne (FID) zene (FID)	%REC 105	Limits 70-132	Lab ID: Analyzed:		
Surr Trifluorotolue Bromofluoroben Field ID: Type:	ogate ne (FID) zene (FID) SS-31(D)-10.5 SAMPLE	%REC 105 109	Limits 70-132 66-138	Analyzed:	196134-014 07/24/07	
Surr Trifluorotolue Bromofluoroben Field ID: Type:	ogate ne (FID) zene (FID) SS-31(D)-10.5 SAMPLE lyte	%REC 105 109	Limits 70-132 66-138 Result	Analyzed:	196134-014	
Surr Trifluorotolue Bromofluoroben Field ID: Type: Ana Gasoline C7-C1	ogate ne (FID) zene (FID) SS-31(D)-10.5 SAMPLE lyte 2	%REC 105 109 ND	Limits 70-132 66-138 Result	Analyzed:	196134-014 07/24/07	
Surr Trifluorotolue Bromofluoroben Field ID: Type: Ana Gasoline C7-C1 Surr	ogate ne (FID) zene (FID) SS-31(D)-10.5 SAMPLE lyte 2 ogate	%REC 105 109 ND %REC	Limits 70-132 66-138 Result	Analyzed:	196134-014 07/24/07	
Surr Trifluorotolue Bromofluoroben Field ID: Type: Ana Gasoline C7-C1 Surr Trifluorotolue	ogate ne (FID) zene (FID) SS-31(D)-10.5 SAMPLE lyte 2 ogate ne (FID)	*REC 105 109 ND *REC 103	Limits 70-132 66-138 Result D Limits 70-132	Analyzed:	196134-014 07/24/07	
Surr Trifluorotolue Bromofluoroben Field ID: Type: Ana Gasoline C7-C1 Surr	ogate ne (FID) zene (FID) SS-31(D)-10.5 SAMPLE lyte 2 ogate ne (FID)	%REC 105 109 ND %REC	Limits 70-132 66-138 Result	Analyzed:	196134-014 07/24/07	
Surr Trifluorotolue Bromofluoroben Field ID: Type: Ana Gasoline C7-C1 Surr Trifluorotolue	ogate ne (FID) zene (FID) SS-31(D)-10.5 SAMPLE lyte 2 ogate ne (FID)	*REC 105 109 ND *REC 103	Limits 70-132 66-138 Result D Limits 70-132	Analyzed:	196134-014 07/24/07	
Surr Trifluorotolue Bromofluoroben Field ID: Type: Ana Gasoline C7-C1 Surr Trifluorotolue Bromofluoroben	ogate ne (FID) zene (FID) SS-31(D)-10.5 SAMPLE 1yte 2 ogate ne (FID) zene (FID)	*REC 105 109 ND *REC 103	Limits 70-132 66-138 Result D Limits 70-132	Analyzed:	196134-014 07/24/07 2L 0.96	
Surr Trifluorotolue Bromofluoroben Field ID: Type: Ana Gasoline C7-C1 Surr Trifluorotolue Bromofluoroben Field ID:	ogate ne (FID) zene (FID) SS-31(D)-10.5 SAMPLE 1yte 2 ogate ne (FID) zene (FID) SS-31(D)-15	*REC 105 109 ND *REC 103	Limits 70-132 66-138 Result D Limits 70-132	Analyzed:	196134-014 07/24/07 2L 0.96 196134-015	
Surr Trifluorotolue Bromofluoroben Field ID: Type: Ana Gasoline C7-C1 Surr Trifluorotolue Bromofluoroben Field ID: Type:	ogate ne (FID) zene (FID) SS-31(D)-10.5 SAMPLE 1yte 2 ogate ne (FID) zene (FID) SS-31(D)-15 SAMPLE	%REC 105 109	Limits 70-132 66-138 Result 70-132 66-138	Analyzed: F Lab ID: Analyzed:	196134-014 07/24/07 RL 0.96 196134-015 07/24/07	
Surr Trifluorotolue Bromofluoroben Field ID: Type: Casoline C7-C1 Surr Trifluorotolue Bromofluoroben Field ID: Type: Ana	ogate ne (FID) zene (FID) SS-31(D)-10.5 SAMPLE 1yte 2 ogate ne (FID) zene (FID) zene (FID) SS-31(D)-15 SAMPLE 1yte	%REC 105 109 ND %REC 103 108	Limits 70-132 66-138 Result D Limits 70-132 66-138 Result	Analyzed: F Lab ID: Analyzed:	196134-014 07/24/07 EL 0.96 196134-015 07/24/07	
Surr Trifluorotolue Bromofluoroben Field ID: Type: Ana Gasoline C7-C1 Surr Trifluorotolue Bromofluoroben Field ID: Type:	ogate ne (FID) zene (FID) SS-31(D)-10.5 SAMPLE 1yte 2 ogate ne (FID) zene (FID) zene (FID) SS-31(D)-15 SAMPLE 1yte	%REC 105 109	Limits 70-132 66-138 Result D Limits 70-132 66-138 Result	Analyzed: F Lab ID: Analyzed:	196134-014 07/24/07 RL 0.96 196134-015 07/24/07	
Surr Trifluorotolue Bromofluoroben Field ID: Type: Ana Gasoline C7-C1 Surr Trifluorotolue Bromofluoroben Field ID: Type: Gasoline C7-C1 Gasoline C7-C1 Surr Gasoline C7-C1	ogate ne (FID) zene (FID) SS-31(D)-10.5 SAMPLE 1yte 2 ogate ne (FID) zene (FID) SS-31(D)-15 SAMPLE 1yte 2 ogate	*REC 105 109 ND *REC ND *REC	Limits 70-132 66-138 Result 70-132 66-138 Result	Analyzed: F Lab ID: Analyzed:	196134-014 07/24/07 EL 0.96 196134-015 07/24/07	
Surr Trifluorotolue Bromofluoroben Field ID: Type: Ana Gasoline C7-C1 Field ID: Type: Ana Gasoline C7-C1	ogate ne (FID) zene (FID) SS-31(D)-10.5 SAMPLE lyte 2 ogate ne (FID) zene (FID) SS-31(D)-15 SAMPLE lyte 2 ogate ne (FID)	*REC 105 109 ND *REC 103 108	Limits 70-132 66-138 Result 70-132 66-138 Result	Analyzed: F Lab ID: Analyzed:	196134-014 07/24/07 EL 0.96 196134-015 07/24/07	



		Total	Volatil	e Hydrocar	bons
Lab #: Client: Project#:	196134 LFR Levine Fr 001-09567-01	icke		Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8015B
Matrix: Units: Basis: Diln Fac:	Soil mg/Kg as received 1.000			Batch#: Sampled: Received:	127519 07/20/07 07/23/07
Field ID: Type:	SS-31(D)-19.5 SAMPLE			Lab ID: Analyzed:	196134-016 07/24/07
Anal Gasoline C7-C12		NE	Result		RL 0.98
Surro Trifluorotoluen Bromofluorobenz	ogate ne (FID)	%REC 105 111	Limits 70-132 66-138		
Type: Lab ID:	BLANK QC397465			Analyzed:	07/23/07
Anal Gasoline C7-C12		NI	Result		RL 0.20
Surro Trifluorotoluen Bromofluorobenz	ogate ne (FID)	%REC 99 105	Limits 70-132 66-138		0.20



Total Volatile Hydrocarbons						
Lab #:	196134	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 5030B			
Project#:	001-09567-01	Analysis:	EPA 8015B			
Туре:	LCS	Basis:	as received			
Lab ID:	QC397466	Diln Fac:	1.000			
Matrix:	Soil	Batch#:	127519			
Units:	mg/Kg	Analyzed:	07/23/07			

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.041	90	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	70-132
Bromofluorobenzene (FID)	106	66-138



Total Volatile Hydrocarbons							
Lab #:	196134	Location:	Hanson Radum				
Client:	LFR Levine Fricke	Prep:	EPA 5030B				
Project#:	001-09567-01	Analysis:	EPA 8015B				
Field ID:	ZZZZZZZZZ	Diln Fac:	1.000				
MSS Lab ID:	196123-001	Batch#:	127519				
Matrix:	Soil	Sampled:	07/20/07				
Units:	mg/Kg	Received:	07/20/07				
Basis:	as received	Analyzed:	07/23/07				

Туре:	MS			Lab ID:	QC	397467		
	Analyte	MSS Re	sult	Spike	ed	Result	%REC	Limits
Gasoline	C7-C12	C	.02104	1.	.859	1.816	97	36-120
	Surrogate	%REC	Limits					
Trifluoro	otoluene (FID)	107	70-132					
Bromofluc	probenzene (FID)	113	66-138					
Туре:	MSD			Lab ID:	QC	397468		
	Analyte		Spiked		Result	%REC	Limits	RPD Lim
Gasoline	C7-C12		1.984	4	1.602	80	36-120	19 29
	Surrogate	%REC	Limits					
Trifluoro	otoluene (FID)	97	70-132					

105

66-138

Bromofluorobenzene (FID)



	c	Cotal E	Extracta	ble Hydrocarbo	ns
Lab #:	196134			Location:	Hanson Radum
Client:	LFR Levine Fr	ricke		Prep:	EPA 3520C
Project#:	001-09567-01			Analysis:	EPA 8015B
Matrix:	Water			Sampled:	07/20/07
Units:	ug/L			Received:	07/23/07
Diln Fac:	1.000			Prepared:	07/21/07
Batch#:	127485			_	
Field ID:	SS-31(B)-GGW			Analyzed:	07/23/07
Type:	SAMPLE			Cleanup Method:	EPA 3630C
Lab ID:	196134-001				
Ana	lyte		Result	RL	
Diesel C10-C24		ND		50	
Motor Oil C24-	236	ND		300	
Guaran		%REC	Limits		
Hexacosane	ogate	101	61-134		
Field ID: Type: Lab ID:	SS-31(C)-GGW SAMPLE 196134-002			Analyzed: Cleanup Method:	07/23/07 EPA 3630C
Ana	lyte		Result	RL	
Diesel C10-C24	-	ND		50	
Motor Oil C24-	236	ND		300	
d		0.550	• · · · · · · · · ·		
	ogate	%REC 113	Limits 61-134		
Hexacosane		112	01-134		
Туре:	BLANK			Analyzed:	07/24/07
Lab ID:	QC397298			Cleanup Method:	
				-	
	lyte		Result	RL	
Diesel C10-C24		ND		50	
Motor Oil C24-	236	ND		300	
Surr	ogate	%REC	Limits		
Hexacosane		86	61-134		

ND= Not Detected RL= Reporting Limit Page 1 of 1



Total Extractable Hydrocarbons						
Lab #:	196134	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 3520C			
Project#:	001-09567-01	Analysis:	EPA 8015B			
Type:	LCS	Diln Fac:	1.000			
Lab ID:	QC397299	Batch#:	127485			
Matrix:	Water	Prepared:	07/21/07			
Units:	ug/L	Analyzed:	07/22/07			

Cleanup Method: EPA 3630C

Analyte		Spiked	Result	%REC	Limits
Diesel C10-C24		2,500	1,989	80	58-130
Surrogate	%REC	Limits			
Hexacosane	94	61-134			



Total Extractable Hydrocarbons						
Lab #:	196134	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 3520C			
Project#:	001-09567-01	Analysis:	EPA 8015B			
Field ID:	ZZZZZZZZZ	Batch#:	127485			
MSS Lab ID:	196070-002	Sampled:	07/17/07			
Matrix:	Water	Received:	07/19/07			
Units:	ug/L	Prepared:	07/21/07			
Diln Fac:	1.000	Analyzed:	07/23/07			

Type:	MS		L		QC397300	QC397300		
A	nalyte	MSS Res	ult	Spiked	Result	%REC	Limits	
Diesel ClC)-C24	97	97.25		2,808	108	57-134	
	Surrogate	%REC	Limits					
Hexacosane	2	122	61-134					

Type:	MSD			Lab ID:	QC	2397301			
	Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Diesel C	C10-C24		2,500		2,587	100	57-134	8	32
		-							
	Surrogate	%REC	Limits						
Hexacosa	ine	112	61-134						



		Total H	Extracta	ble Hydrocarbo	ns			
Lab #:	196134			Location:	Hanson Radum			
Client:	LFR Levine F	ricke		Prep:	EPA 3520C			
Project#:	001-09567-01	-		Analysis:	EPA 8015B			
Field ID:	ZZZZZZZZZZ			Batch#:	127485			
MSS Lab ID:	196093-002			Sampled:	07/18/07			
Matrix:	Water			Received:	07/19/07			
Units:	ug/L			Prepared:	07/21/07			
Diln Fac:	1.000			Analyzed:	07/23/07			
Type: Lab ID: Analy	MS QC397302	MSS Res		Cleanup Method: Spiked	EPA 3630C	*REC	Limi	+ 9
Diesel C10-C24			.01	2,500	2,118	85	57-1	
Diesei Ciu-C24		<17	.01	2,500	2,110	65	57-1	.54
Surr	ogate	%REC	Limits					
Hexacosane		101	61-134					
Type: Lab ID:	MSD QC397303			Cleanup Method:	EPA 3630C			
Ana	lyte		Spiked	Result	: %REC	Limits	RPD	Lim
Diesel C10-C24			2,500	1,825	73	57-134	15	32



	Т	'otal B	Extracta	ble Hydrocarbo	ns
Lab #: Client: Project#:	196134 LFR Levine Fr 001-09567-01	icke		Location: Prep: Analysis:	Hanson Radum SHAKER TABLE EPA 8015B
Matrix: Units: Basis: Diln Fac:	Soil mg/Kg as received 1.000			Sampled: Received: Prepared:	07/20/07 07/23/07 07/23/07
Field ID: Type: Lab ID:	SS-31(C)-5.5 SAMPLE 196134-003			Batch#: Analyzed: Cleanup Method:	127535 07/25/07 EPA 3630C
	lyte	ND	Result 2.0 H	RL	0
Surr Hexacosane	ogate	%REC 77	Limits 40-127		
Field ID: Type: Lab ID:	SS-31(C)-10.5 SAMPLE 196134-004			Batch#: Analyzed: Cleanup Method:	127535 07/25/07 EPA 3630C
Ana Diesel C10-C24 Motor Oil C24-	lyte C36	ND ND		RL 1. 5.	
Surr Hexacosane	ogate	%REC 93	Limits 40-127		
Field ID: Type: Lab ID:	SS-31(C)-15.5 SAMPLE 196134-005			Batch#: Analyzed: Cleanup Method:	127535 07/25/07 EPA 3630C
Ana Diesel C10-C24	lyte	ND	Result	RL 0.	99
Motor Oil C24-		ND		5.	0
Surr Hexacosane	ogate	% REC 59	Limits 40-127		
Field ID: Type: Lab ID:	SS-31(C)-19.5 SAMPLE 196134-006			Batch#: Analyzed: Cleanup Method:	127535 07/24/07 EPA 3630C
Ana Diesel C10-C24 Motor Oil C24-	lyte C36	ND	Result 2.3 Y	RL Z 1. 5.	
Surr Hexacosane	ogate	%REC 76	Limits 40-127		
H= Heavier hyd L= Lighter hyd Y= Sample exhi	bits unknown sin d	buted t phic pa	o the qua ttern whi	ntitation .ch does not resem	uble standard 46.1



	г	otal I	Extracta	ble Hydrocarbo	າຮ
Lab #:	196134			Location:	Hanson Radum
Client:	LFR Levine Fr	icke		Prep:	SHAKER TABLE
Project#: Matrix:	<u>001-09567-01</u> Soil			Analysis: Sampled:	EPA 8015B 07/20/07
Units:	mg/Kg			Received:	07/23/07
Basis:	as received			Prepared:	07/23/07
Diln Fac:	1.000				
Field ID:	SS-31(C)-25.5			Batch#:	127535
Type:	SAMPLE			Analyzed:	07/24/07
Lab ID:	196134-007			Cleanup Method:	EPA 3630C
Anal Diesel C10-C24	lyte	NE	Result	RL 1.	٥
Motor Oil C24-0		NE		5.	
	ogate	%REC	Limits		
Hexacosane		70	40-127		
Field ID:	SS-31(C)-30			Batch#:	127534
Type:	SAMPLE			Analyzed:	07/25/07
Lab ID:	196134-008			Cleanup Method:	EPA 3630C
Anal	lyte		Result	RL	0
Diesel C10-C24 Motor Oil C24-C		NE NE		1. 5.	
Surro	ogate	%REC	Limits		
Hexacosane		104	40-127		
Field ID:	SS-31(C)-40			Batch#:	127534
Type:	SAMPLE			Analyzed:	07/25/07
Lab ID:	196134-009			Cleanup Method:	
3===					
	lyte		Result	RL	
Diesel C10-C24		NE)	1.	
Diesel C10-C24 Motor Oil C24-C	236	NI NI)		
Diesel C10-C24 Motor Oil C24-C		NE)	1.	
Diesel C10-C24 Motor Oil C24-C Surro	236	NE NE %REC	Limits	1.	
Diesel C10-C24 Motor Oil C24-C Surro Hexacosane	C36 Ogate	NE NE %REC	Limits	1. 5.	0
Diesel C10-C24 Motor Oil C24-C Hexacosane Field ID:	C36 ogate SS-31(C)-51	NE NE %REC	Limits	1. 5. Batch#:	0
Diesel C10-C24 Motor Oil C24-C Surro Hexacosane	C36 Ogate	NE NE %REC	Limits	1. 5.	0 127534 07/25/07
Diesel C10-C24 Motor Oil C24-C Surro Hexacosane Field ID: Type: Lab ID: Anal	C36 pgate SS-31(C)-51 SAMPLE 196134-010 lyte	NI NI %REC 103	Limits	1. 5. Batch#: Analyzed:	0 127534 07/25/07
Diesel C10-C24 Motor Oil C24-C Surro Hexacosane Field ID: Type: Lab ID: Ana Diesel C10-C24	C36 pgate SS-31(C)-51 SAMPLE 196134-010 lyte	NI NI %REC 103 NI	Limits 40-127 Result	1. 5. Batch#: Analyzed: Cleanup Method: RL 0.	0 127534 07/25/07 EPA 3630C 99
Diesel C10-C24 Motor Oil C24-C Surro Hexacosane Field ID: Type: Lab ID: Anal	C36 pgate SS-31(C)-51 SAMPLE 196134-010 lyte	NI NI %REC 103	Limits 40-127 Result	1. 5. Batch#: Analyzed: Cleanup Method: RL	0 127534 07/25/07 EPA 3630C 99
Diesel C10-C24 Motor Oil C24-C Surro Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-C Surro	C36 pgate SS-31(C)-51 SAMPLE 196134-010 lyte	NI NI 103 NI NI %REC	Limits 40-127 Result	1. 5. Batch#: Analyzed: Cleanup Method: RL 0.	0 127534 07/25/07 EPA 3630C
Diesel C10-C24 Motor Oil C24-C Surro Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-C	C36 ogate SS-31(C)-51 SAMPLE 196134-010 Lyte C36	NI NI %REC 103	Limits 40-127 Result	1. 5. Batch#: Analyzed: Cleanup Method: RL 0.	0 127534 07/25/07 EPA 3630C

H= Heavier hydrocarbons contributed to the quantitation L= Lighter hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard Z= Sample exhibits unknown single peak or peaks ND= Not Detected RL= Reporting Limit Page 2 of 4

46.1



	т	otal F	Extracta	ble Hydrocarbo	ns
7 1 1		ocar i			
Lab #: Client:	196134 LFR Levine Fr	icke		Location: Prep:	Hanson Radum SHAKER TABLE
Project#:	001-09567-01	rone		Analysis:	EPA 8015B
Matrix:	Soil			Sampled:	07/20/07
Units: Basis:	mg/Kg as received			Received: Prepared:	07/23/07 07/23/07
Diln Fac:	1.000			FIEpareu.	01/23/01
Field ID:	SS-31(C)-60.5			Batch#:	127534
Type:	SAMPLE			Analyzed:	07/25/07
Lab ID:	196134-011			Cleanup Method:	EPA 3630C
Ana	lyte		Result	RL	
Diesel C10-C24	-		5.7 Y		
Motor Oil C24-0		ND)	5.	U
Surro	ogate	%REC	Limits		
Hexacosane		97	40-127		
Field ID:	SS-31(D)-5.5			Batch#:	127534
Type: Lab ID:	SAMPLE 196134-013			Analyzed: Cleanup Method:	07/25/07 FDA 3630C
	190134-013			creanup Mechou.	EFA 3030C
Ana.			Result	RL	
Diesel C10-C24 Motor Oil C24-0		ND ND		0. 5.	99
MOLOI OII CZI (,	5.	0
	ogate	%REC			
Surro Hexacosane	ogate	% REC 77	Limits 40-127		
	ogate				
Hexacosane	-			Dot ob#:	107504
Hexacosane Field ID:	SS-31(D)-10.5			Batch#: Analyzed:	127534 07/25/07
Hexacosane	-			Batch#: Analyzed: Cleanup Method:	07/25/07
Hexacosane Field ID: Type: Lab ID:	SS-31(D)-10.5 SAMPLE 196134-014	77	40-127	Analyzed: Cleanup Method:	07/25/07
Hexacosane Field ID: Type: Lab ID: Ana	SS-31(D)-10.5 SAMPLE	77	40-127 Result	Analyzed: Cleanup Method: RL	07/25/07 EPA 3630C
Hexacosane Field ID: Type: Lab ID:	SS-31(D)-10.5 SAMPLE 196134-014 lyte	77	40-127	Analyzed: Cleanup Method: <u>RL</u> Y Z 0.	07/25/07 EPA 3630C 99
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0	SS-31(D)-10.5 SAMPLE 196134-014 Lyte	77	40-127 Result 1.7 H 9.4 H	Analyzed: Cleanup Method: <u>RL</u> Y Z 0.	07/25/07 EPA 3630C 99
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0	SS-31(D)-10.5 SAMPLE 196134-014 lyte	77	40-127 Result 1.7 H	Analyzed: Cleanup Method: <u>RL</u> Y Z 0.	07/25/07 EPA 3630C 99
Hexacosane Field ID: Type: Lab ID: Ana: Diesel C10-C24 Motor Oil C24-0 Surro	SS-31(D)-10.5 SAMPLE 196134-014 Lyte	77 %REC	40-127 Result 1.7 H 9.4 H Limits	Analyzed: Cleanup Method: <u>RL</u> Y Z 0.	07/25/07 EPA 3630C 99
Hexacosane Field ID: Type: Lab ID: Ana: Diesel C10-C24 Motor Oil C24-0 Surro	SS-31(D)-10.5 SAMPLE 196134-014 Lyte	77 %REC	40-127 Result 1.7 H 9.4 H Limits	Analyzed: Cleanup Method: <u>RL</u> Y Z 0.	07/25/07 EPA 3630C 99
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0 Surro	SS-31(D)-10.5 SAMPLE 196134-014 Lyte	77 %REC	40-127 Result 1.7 H 9.4 H Limits	Analyzed: Cleanup Method: <u>RL</u> Y Z 0.	07/25/07 EPA 3630C 99
Hexacosane Field ID: Type: Lab ID: Motor Oil C24-0 Motor Oil C24-0 Hexacosane Field ID: Type:	SS-31(D)-10.5 SAMPLE 196134-014 Lyte C36 Sgate SS-31(D)-15 SAMPLE	77 %REC	40-127 Result 1.7 H 9.4 H Limits	Analyzed: Cleanup Method: <u>RL</u> Y Z 0. L 5. Batch#: Analyzed:	07/25/07 EPA 3630C 99 0 127534 07/25/07
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0 Hexacosane Field ID:	SS-31(D)-10.5 SAMPLE 196134-014 Lyte C36 SS-31(D)-15	77 %REC	40-127 Result 1.7 H 9.4 H Limits	Analyzed: Cleanup Method: <u>RL</u> Y Z 0. L 5. Batch#:	07/25/07 EPA 3630C 99 0 127534 07/25/07
Hexacosane Field ID: Type: Lab ID: Ana: Diesel C10-C24 Motor Oil C24-C Hexacosane Field ID: Type: Lab ID:	SS-31(D)-10.5 SAMPLE 196134-014 Lyte C36 Sgate SS-31(D)-15 SAMPLE	77 %REC 79	40-127 Result 1.7 H 9.4 H Limits	Analyzed: Cleanup Method: <u>RL</u> Y Z 0. L 5. Batch#: Analyzed:	07/25/07 EPA 3630C 99 0 127534 07/25/07
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-C Hexacosane Field ID: Type: Lab ID: Ana: Diesel C10-C24	SS-31(D)-10.5 SAMPLE 196134-014 Lyte 236 Dgate SS-31(D)-15 SAMPLE 196134-015 Lyte	77 %REC 79	Result 1.7 H 9.4 H Limits 40-127 Result 3.2 Y	Analyzed: Cleanup Method: Y Z 0. L 5. Batch#: Analyzed: Cleanup Method: Z 0.	07/25/07 EPA 3630C 99 0 127534 07/25/07 EPA 3630C 99
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-0 Hexacosane Field ID: Type: Lab ID: Ana	SS-31(D)-10.5 SAMPLE 196134-014 Lyte 236 Dgate SS-31(D)-15 SAMPLE 196134-015 Lyte	77 %REC 79	Result 1.7 H 9.4 H Limits 40-127 Result 3.2 Y	Analyzed: Cleanup Method: Y Z 0. L 5. Batch#: Analyzed: Cleanup Method: RL	07/25/07 EPA 3630C 99 0 127534 07/25/07 EPA 3630C 99
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-C Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-C	SS-31(D)-10.5 SAMPLE 196134-014 Lyte C36 SS-31(D)-15 SAMPLE 196134-015 Lyte C36	77 %REC 79	40-127 Result 1.7 H 9.4 H Limits 40-127 Result 3.2 Y	Analyzed: Cleanup Method: Y Z 0. L 5. Batch#: Analyzed: Cleanup Method: Z 0.	07/25/07 EPA 3630C 99 0 127534 07/25/07 EPA 3630C 99
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-C Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-C	SS-31(D)-10.5 SAMPLE 196134-014 Lyte 236 Dgate SS-31(D)-15 SAMPLE 196134-015 Lyte	77 %REC 79 ND	Result 1.7 H 9.4 H Limits 40-127 Result 3.2 Y	Analyzed: Cleanup Method: Y Z 0. L 5. Batch#: Analyzed: Cleanup Method: Z 0.	07/25/07 EPA 3630C 99 0 127534 07/25/07 EPA 3630C 99
Hexacosane Field ID: Type: Lab ID: Mathematical Disest C10-C24 Motor Oil C24-(Motor Oil C24-(Field ID: Type: Lab ID: Mathematical Disest C10-C24 Motor Oil C24-(Surrow	SS-31(D)-10.5 SAMPLE 196134-014 Lyte C36 SS-31(D)-15 SAMPLE 196134-015 Lyte C36	77 %REC 79 ND %REC	40-127 Result 1.7 H 9.4 H Limits 40-127 Result 3.2 Y Limits	Analyzed: Cleanup Method: Y Z 0. L 5. Batch#: Analyzed: Cleanup Method: Z 0.	07/25/07 EPA 3630C 99 0 127534 07/25/07 EPA 3630C 99

H= Heavier hydrocarbons contributed to the quantitation L= Lighter hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard Z= Sample exhibits unknown single peak or peaks

ND= Not Detected

RL= Reporting Limit

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	Т	otal E	Extracta	ble Hydrocarbo	ns
Lab #: Client: Project#: Matrix:	196134 LFR Levine Fr 001-09567-01 Soil	icke		Location: Prep: Analysis: Sampled:	Hanson Radum SHAKER TABLE EPA 8015B 07/20/07
Units: Basis: Diln Fac:	mg/Kg as received 1.000			Received: Prepared:	07/23/07 07/23/07 07/23/07
Field ID: Type: Lab ID:	SS-31(D)-19.5 SAMPLE 196134-016			Batch#: Analyzed: Cleanup Method:	127534 07/25/07 EPA 3630C
Anal Diesel C10-C24	yte	ND	Result	RL	99
Motor Oil C24-C	36	ND ND		5.	
Surro Hexacosane	gate	% REC 98	Limits 40-127		
Type: Lab ID: Batch#:	BLANK QC397574 127534			Analyzed: Cleanup Method:	07/24/07 EPA 3630C
Anal	yte		Result	RL	0
Diesel C10-C24 Motor Oil C24-C	36	ND ND		1. 5.	
Surro Hexacosane	gate	%REC 66	Limits 40-127		
Type: Lab ID: Batch#:	BLANK QC397580 127535			Analyzed: Cleanup Method:	07/24/07 EPA 3630C
Anal	yte		Result	RL	-
Diesel C10-C24 Motor Oil C24-C	36	ND ND		1. 5.	
Surro Hexacosane		% REC 72	Limits 40-127		

H= Heavier hydrocarbons contributed to the quantitation L= Lighter hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard Z= Sample exhibits unknown single peak or peaks ND= Not Detected RL= Reporting Limit Page 4 of 4



Total Extractable Hydrocarbons						
Lab #:	196134	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	SHAKER TABLE			
Project#:	001-09567-01	Analysis:	EPA 8015B			
Туре:	LCS	Diln Fac:	1.000			
Lab ID:	QC397575	Batch#:	127534			
Matrix:	Soil	Prepared:	07/23/07			
Units:	mg/Kg	Analyzed:	07/24/07			
Basis:	as received					

Cleanup Method: EPA 3630C

Hexacosane

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.90	40.08	80	58-127
Surrogate	%REC Limits			

40-127

85



		Total E	xtracta	ble Hydrocarbo	ns			
Lab #:	196134			Location:	Hanson Radum			
Client:	LFR Levine F	'ricke		Prep:	SHAKER TABLE			
Project#:	001-09567-01			Analysis:	EPA 8015B			
Field ID:	ZZZZZZZZZ			Batch#:	127534			
MSS Lab ID:	196123-001			Sampled:	07/20/07			
Matrix:	Soil			Received:	07/20/07			
Units:	mg/Kg			Prepared:	07/23/07			
Basis:	as received			Analyzed:	07/24/07			
Diln Fac:	1.000							
Type: Lab ID: Analy	MS QC397576 yte	MSS Res	ult	Cleanup Method: Spiked	EPA 3630C Result	%REC	Limi	ts
Diesel C10-C24			.24	49.93	99.61	111	29-1	.47
Sur: Hexacosane	rogate	%REC 83	Limits 40-127					
Type: Lab ID:	MSD QC397577			Cleanup Method:	EPA 3630C			
Ana	alyte		Spiked	Result	: %REC	Limits	RPD	Lim
Diesel C10-C24	4		49.95	110.	8 133	29-147	11	46
Suri	rogate	%REC	Limits					

Hexacosane 90 40-127



Total Extractable Hydrocarbons						
Lab #:	196134	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	SHAKER TABLE			
Project#:	001-09567-01	Analysis:	EPA 8015B			
Туре:	LCS	Diln Fac:	1.000			
Lab ID:	QC397581	Batch#:	127535			
Matrix:	Soil	Prepared:	07/23/07			
Units:	mg/Kg	Analyzed:	07/24/07			
Basis:	as received					

Cleanup Method: EPA 3630C

Hexacosane

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.84	36.64	74	58-127
Surrogate	%REC Limits			

40-127

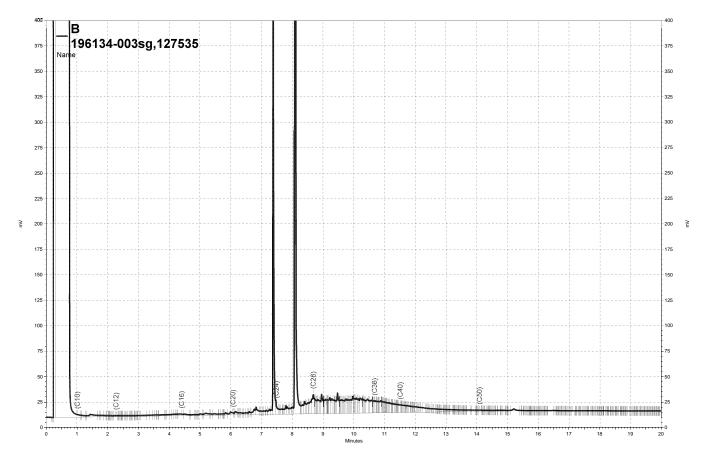
78



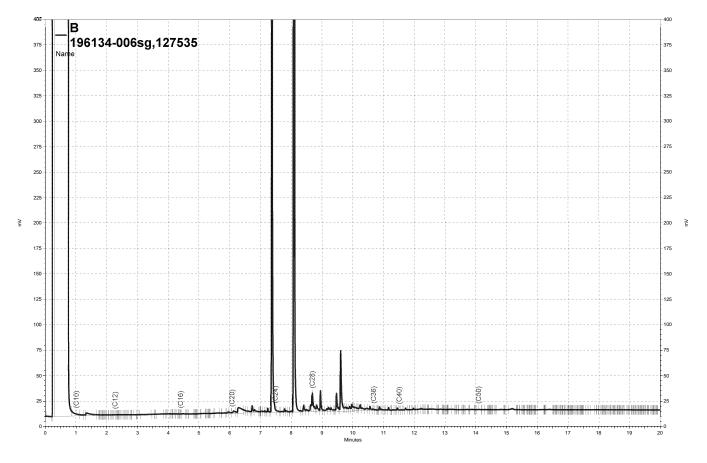
		Total	Extracta	able Hydrocarbo	ns		
Lab #:	196134			Location:	Hanson Radum		
Client:	LFR Levine F	ricke		Prep:	SHAKER TABLE		
Project#:	001-09567-01			Analysis:	EPA 8015B		
Field ID:	ZZZZZZZZZZ			Batch#:	127535		
MSS Lab ID:	196124-006			Sampled:	07/20/07		
Matrix:	Soil			Received:	07/20/07		
Units:	mg/Kg			Prepared:	07/23/07		
Basis:	as received			Analyzed:	07/24/07		
Diln Fac:	1.000						
Type: Lab ID:	MS QC397582			Cleanup Method:			
Analyt	e	MSS Re		Spiked	Result	%REC	Limits
Diesel C10-C24			2.332	49.92	30.59	57	29-147
Surro	gate	%REC	Limits				
Hexacosane		57	40-127				
Type: Lab ID:	MSD QC397583			Cleanup Method:	EPA 3630C		

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.88	40.57	77	29-147	28	46

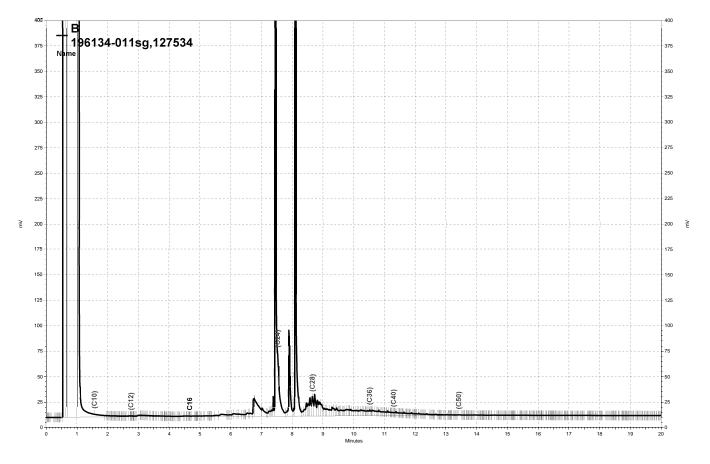
Surrogate	%REC	Limits
Hexacosane	79	40-127



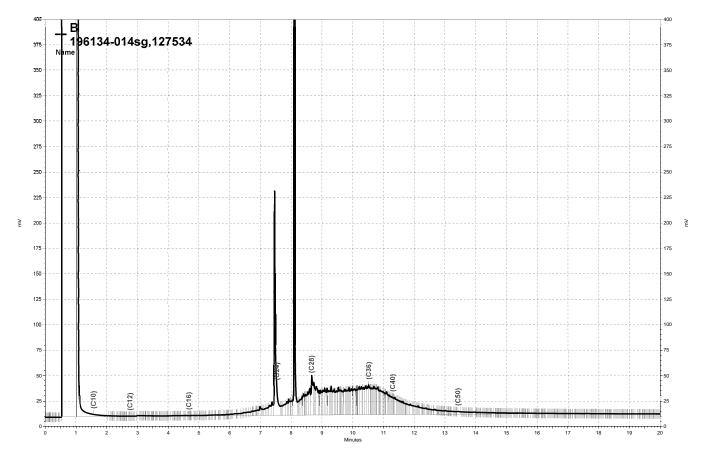
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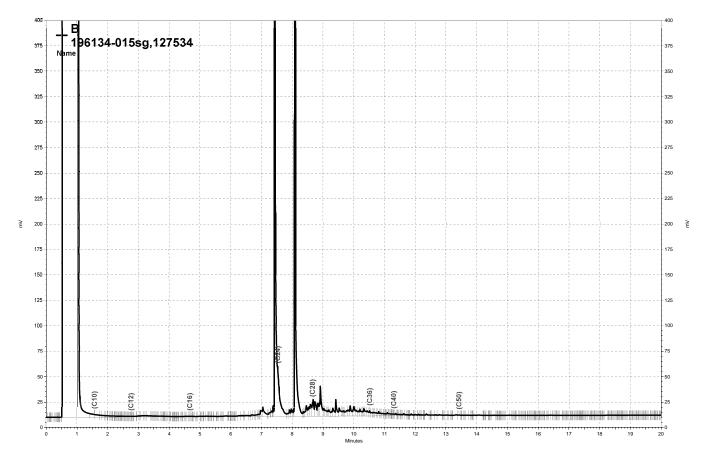


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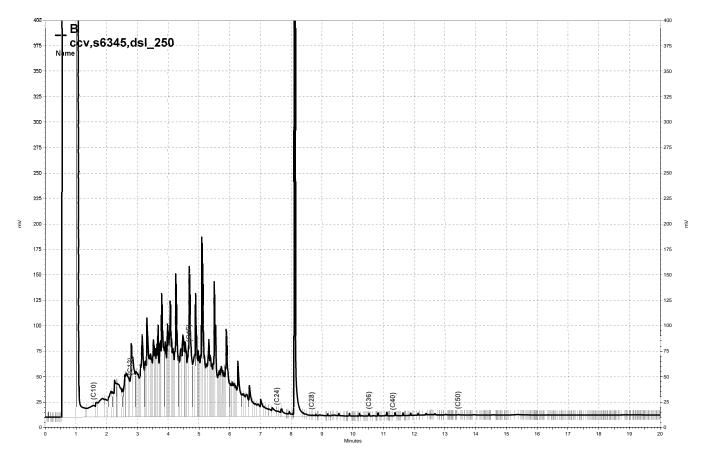


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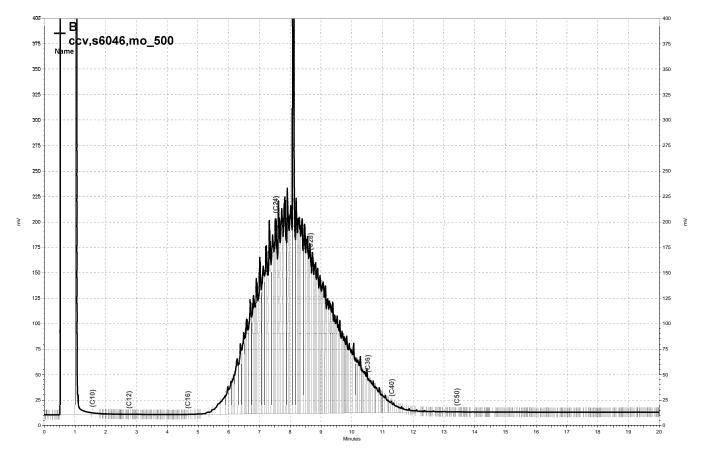




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		Gasoline	by GC/MS	
Lab #:	196134		Location:	Hanson Radum
Client:	LFR Levine Frick	e	Prep:	EPA 5030B
Project#:	001-09567-01		Analysis:	EPA 8260B
Field ID:	SS-31(B)-GGW		Batch#:	127501
Lab ID:	196134-001		Sampled:	07/20/07
Matrix:	Water		Received:	07/23/07
Units:	ug/L		Analyzed:	07/23/07
Diln Fac:	1 000			
Analy	rte	Result		RT.
Gasoline C7-C12		ND		50
tert-Butyl Alcoh	nol (TBA)	ND		10
Freon 12		ND		1.0
Chloromethane		ND		1.0
Vinyl Chloride		ND		0.5
Isopropyl Ether	(DIPE)	ND		0.5
Bromomethane		ND		1.0
Ethyl tert-Butyl		ND		0.5
Methyl tert-Amyl Chloroethane	Ether (TAME)	ND ND		0.5 1.0
Trichlorofluorom	othana	ND ND		1.0
Acetone	lechalle	ND ND		10
Freon 113		ND		0.5
1,1-Dichloroethe	ne	ND		0.5
Methylene Chlori		ND		10
Carbon Disulfide		ND		0.5
MTBE	-	ND		0.5
trans-1,2-Dichlo	proethene	ND		0.5
Vinyl Acetate		ND		10
1,1-Dichloroetha	ine	ND		0.5
2-Butanone		ND		10
cis-1,2-Dichloro		ND		0.5
2,2-Dichloroprop	pane	ND		0.5
Chloroform		ND		0.5
Bromochlorometha		ND		0.5
1,1,1-Trichloroe		ND		0.5
1,1-Dichloroprop	ene	ND		0.5

Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	

ND= Not Detected RL= Reporting Limit Page 1 of 2



	Gasolin	e by GC/MS	
Lab #: 196134		Location:	Hanson Radum
Client: LFR Levine F		Prep:	EPA 5030B
Project#: 001-09567-01		Analysis:	EPA 8260B
Field ID: SS-31(B)-GGW		Batch#:	127501
Lab ID: 196134-001		Sampled:	07/20/07
Matrix: Water		Received:	07/23/07
Units: ug/L		Analyzed:	07/23/07
Diln Fac: 1.000			
Amo Just o	Degult		
Analyte Propylbenzene	Result ND		RL 0.5
Bromobenzene	ND ND		0.5
1,3,5-Trimethylbenzene	ND		0.5
2-Chlorotoluene	ND		0.5
4-Chlorotoluene	ND		0.5
tert-Butylbenzene	ND		0.5
1,2,4-Trimethylbenzene	ND		0.5
sec-Butylbenzene	ND		0.5
para-Isopropyl Toluene	ND		0.5
1,3-Dichlorobenzene	ND		0.5
1,4-Dichlorobenzene	ND		0.5
n-Butylbenzene	ND		0.5
1,2-Dichlorobenzene	ND		0.5
1,2-Dibromo-3-Chloropropane	ND		2.0
1,2,4-Trichlorobenzene	ND		0.5
Hexachlorobutadiene	ND		0.5
Naphthalene	ND		2.0
1,2,3-Trichlorobenzene	ND		0.5
Gummagaha	%REC Limits		
Surrogate Dibromofluoromethane	96 80-123		
1,2-Dichloroethane-d4	104 79-134		
Toluene-d8	97 80-120		
Bromofluorobenzene	104 80-122		



Gasoline by GC/MS					
Lab #: Client: Project#:	196134 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B		
Field ID: Lab ID: Matrix: Units: Diln Fac:	SS-31(C)-GGW 196134-002 Water ug/L 1.000	Batch#: Sampled: Received: Analyzed:	127501 07/20/07 07/23/07 07/23/07		

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Bromomethane	ND	1.0
	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME) Chloroethane	ND ND	1.0
		- • •
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND ND	0.5
	ND ND	0.5
1,2-Dibromoethane		
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5

ND= Not Detected RL= Reporting Limit Page 1 of 2



	Gasolin	e by GC/MS	
Lab #: 196134		Location:	Hanson Radum
Client: LFR Levine F	ricke	Prep:	EPA 5030B
Project#: 001-09567-01		Analysis:	EPA 8260B
Field ID: SS-31(C)-GGW		Batch#:	127501
Lab ID: 196134-002		Sampled:	07/20/07
Matrix: Water		Received:	07/23/07
Units: ug/L		Analyzed:	07/23/07
Diln Fac: 1.000			
Analyte	Result		RL
Propylbenzene	ND		0.5
Bromobenzene	ND		0.5
1,3,5-Trimethylbenzene	ND		0.5
2-Chlorotoluene	ND		0.5
4-Chlorotoluene	ND		0.5
tert-Butylbenzene	ND		0.5
1,2,4-Trimethylbenzene	ND		0.5
sec-Butylbenzene	ND		0.5
para-Isopropyl Toluene	ND		0.5
1,3-Dichlorobenzene	ND		0.5
1,4-Dichlorobenzene	ND		0.5
n-Butylbenzene	ND		0.5
1,2-Dichlorobenzene	ND		0.5
1,2-Dibromo-3-Chloropropane	ND		2.0
1,2,4-Trichlorobenzene	ND		0.5
Hexachlorobutadiene	ND		0.5
Naphthalene	ND		2.0
1,2,3-Trichlorobenzene	ND		0.5
Surrogate	%REC Limits		
Dibromofluoromethane	98 80-123		
1,2-Dichloroethane-d4	104 79-134		
Toluene-d8	98 80-120		
Bromofluorobenzene	105 80-122		



	Gasoline by GC/MS					
Lab #: Client: Project#:	196134 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B			
Matrix: Units: Diln Fac:	Water ug/L 1.000	Batch#: Analyzed:	127501 07/23/07			

Type: BS		Lab ID: QC	2397407	
Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	108.0	86	68-132
Isopropyl Ether (DIPE)	25.00	20.34	81	65-120
Ethyl tert-Butyl Ether (ETBE		20.65	83	75-124
Methyl tert-Amyl Ether (TAME) 25.00	24.78	99	77-120
1,1-Dichloroethene	25.00	23.47	94	80-132
Benzene	25.00	24.91	100	80-120
Trichloroethene	25.00	25.58	102	80-120
Toluene	25.00	26.08	104	80-120
Chlorobenzene	25.00	25.85	103	80-120
Surrogate	%REC Limits			
Dibromofluoromethane	93 80-123			
1,2-Dichloroethane-d4	98 79-134			

Dibromofluoromethane	93	80-123		
1,2-Dichloroethane-d4	98	79-134		
Toluene-d8	98	80-120		
Bromofluorobenzene	96	80-122		

Type: BSD			Lab ID:	QC39	7408			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)		125.0		110.6	88	68-132	2	20
Isopropyl Ether (DIPE)		25.00		19.69	79	65-120	3	20
Ethyl tert-Butyl Ether (ETBE)		25.00		20.60	82	75-124	0	20
Methyl tert-Amyl Ether (TAME)		25.00		24.17	97	77-120	2	20
1,1-Dichloroethene		25.00		22.86	91	80-132	3	20
Benzene		25.00		23.60	94	80-120	5	20
Trichloroethene		25.00		24.33	97	80-120	5	20
Toluene		25.00		24.22	97	80-120	7	20
Chlorobenzene		25.00		24.80	99	80-120	4	20
Surrogate	%REC	Limits						
Dibromofluoromethane	95	80-123						
1,2-Dichloroethane-d4	97	79-134						
Toluene-d8	97	80-120						
Bromofluorobenzene	97	80-122						



Gasoline by GC/MS					
Lab #:	196134	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 5030B		
Project#:	001-09567-01	Analysis:	EPA 8260B		
Matrix:	Water	Batch#:	127501		
Units:	ug/L	Analyzed:	07/23/07		
Diln Fac:	1.000				

Type:

BS

Lab ID: QC397409

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	934.9	93	70-130

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-123
1,2-Dichloroethane-d4	99	79-134
Toluene-d8	101	80-120
Bromofluorobenzene	97	80-122

Type:	BSD			Lab ID:	QC3	97410			
	Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Gasoline C	7-C12		1,000		902.7	90	70-130	4	20
	Surrogate	%REC	Limits						
Dibromoflu	oromethane	92	80-123						
1,2-Dichlo	roethane-d4	97	79-134						
Toluene-d8		97	80-120						
Bromofluor	obenzene	98	80-122						



	Gasoline by GC/MS				
Lab #: Client:	196134 LFR Levine Fricke	Location: Prep:	Hanson Radum EPA 5030B		
Project#:	001-09567-01 BLANK	Analysis: Diln Fac:	EPA 8260B 1.000		
Type: Lab ID: Matrix: Units:	QC397411 Water	Batch#: Analyzed:	127501 07/23/07		
UNILS.	ug/L				

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
	ND	0.5
Isopropyl Ether (DIPE)		1.0
Bromomethane	ND	
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5

ND= Not Detected RL= Reporting Limit

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		Gasoline	by GC/MS	
Lab #: Client: Project#:	196134 LFR Levine Fricke 001-09567-01		Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B
Type: Lab ID:	BLANK QC397411		Diln Fac: Batch#:	1.000 127501
Matrix: Units:	Water ug/L		Analyzed:	07/23/07
An	alyte	Result		RL
Propylbenzene	:	ND		0.5

Propylbenzene	ND		0.5
Bromobenzene	ND		0.5
1,3,5-Trimethylbenzene	ND		0.5
2-Chlorotoluene	ND		0.5
4-Chlorotoluene	ND		0.5
tert-Butylbenzene	ND		0.5
1,2,4-Trimethylbenzene	ND		0.5
sec-Butylbenzene	ND		0.5
para-Isopropyl Toluene	ND		0.5
1,3-Dichlorobenzene	ND		0.5
1,4-Dichlorobenzene	ND		0.5
n-Butylbenzene	ND		0.5
1,2-Dichlorobenzene	ND		0.5
1,2-Dibromo-3-Chloropropane	ND		2.0
1,2,4-Trichlorobenzene	ND		0.5
Hexachlorobutadiene	ND		0.5
Naphthalene	ND		2.0
1,2,3-Trichlorobenzene	ND		0.5
Surrogate	%REC	Limits	
Dibromofluoromethane	91	80-123	
1,2-Dichloroethane-d4	103	79-134	
Toluene-d8	98	80-120	
Bromofluorobenzene	103	80-122	

ND= Not Detected RL= Reporting Limit Page 2 of 2



Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(C)-5.5	Diln Fac:	1.000	
Lab ID:	196134-003	Batch#:	127494	
Matrix:	Soil	Sampled:	07/20/07	
Units:	ug/Kg	Received:	07/23/07	
Basis:	as received	Analyzed:	07/23/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	100	
MTBE	ND	5.0	
Isopropyl Ether (DIPE)	ND	5.0	
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	
1,2-Dichloroethane	ND	5.0	
Benzene	ND	5.0	
Methyl tert-Amyl Ether (TAME)	ND	5.0	
Toluene	ND	5.0	
1,2-Dibromoethane	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	

Surrogate	%REC	Limits	
Dibromofluoromethane	101	78-126	
1,2-Dichloroethane-d4	109	76-135	
Toluene-d8	100	80-120	
Bromofluorobenzene	102	80-126	



Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(C)-10.5	Diln Fac:	0.9091	
Lab ID:	196134-004	Batch#:	127494	
Matrix:	Soil	Sampled:	07/20/07	
Units:	ug/Kg	Received:	07/23/07	
Basis:	as received	Analyzed:	07/23/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	91	
MTBE	ND	4.5	
Isopropyl Ether (DIPE)	ND	4.5	
Ethyl tert-Butyl Ether (ETBE)	ND	4.5	
1,2-Dichloroethane	ND	4.5	
Benzene	ND	4.5	
Methyl tert-Amyl Ether (TAME)	ND	4.5	
Toluene	ND	4.5	
1,2-Dibromoethane	ND	4.5	
Ethylbenzene	ND	4.5	
m,p-Xylenes	ND	4.5	
o-Xylene	ND	4.5	

Surrogate	%REC	Limits	
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	110	76-135	
Toluene-d8	100	80-120	
Bromofluorobenzene	102	80-126	



Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(C)-15.5	Diln Fac:	0.9091	
Lab ID:	196134-005	Batch#:	127494	
Matrix:	Soil	Sampled:	07/20/07	
Units:	ug/Kg	Received:	07/23/07	
Basis:	as received	Analyzed:	07/23/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	91	
MTBE	ND	4.5	
Isopropyl Ether (DIPE)	ND	4.5	
Ethyl tert-Butyl Ether (ETBE)	ND	4.5	
1,2-Dichloroethane	ND	4.5	
Benzene	ND	4.5	
Methyl tert-Amyl Ether (TAME)	ND	4.5	
Toluene	ND	4.5	
1,2-Dibromoethane	ND	4.5	
Ethylbenzene	ND	4.5	
m,p-Xylenes	ND	4.5	
o-Xylene	ND	4.5	

Surrogate	%REC	limits	
Dibromofluoromethane	102	78-126	
1,2-Dichloroethane-d4	113	/6-135	
Toluene-d8	100	30-120	
Bromofluorobenzene	101	30-126	



Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(C)-19.5	Diln Fac:	0.9804	
Lab ID:	196134-006	Batch#:	127494	
Matrix:	Soil	Sampled:	07/20/07	
Units:	ug/Kg	Received:	07/23/07	
Basis:	as received	Analyzed:	07/23/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	98	
MTBE	ND	4.9	
Isopropyl Ether (DIPE)	ND	4.9	
Ethyl tert-Butyl Ether (ETBE)	ND	4.9	
1,2-Dichloroethane	ND	4.9	
Benzene	ND	4.9	
Methyl tert-Amyl Ether (TAME)	ND	4.9	
Toluene	ND	4.9	
1,2-Dibromoethane	ND	4.9	
Ethylbenzene	ND	4.9	
m,p-Xylenes	ND	4.9	
o-Xylene	ND	4.9	

Surrogate	%REC	Limits	
Dibromofluoromethane	106	78-126	
1,2-Dichloroethane-d4	116	76-135	
Toluene-d8	100	80-120	
Bromofluorobenzene	103	80-126	



Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(C)-25.5	Diln Fac:	0.9804	
Lab ID:	196134-007	Batch#:	127494	
Matrix:	Soil	Sampled:	07/20/07	
Units:	ug/Kg	Received:	07/23/07	
Basis:	as received	Analyzed:	07/23/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	98	
MTBE	ND	4.9	
Isopropyl Ether (DIPE)	ND	4.9	
Ethyl tert-Butyl Ether (ETBE)	ND	4.9	
1,2-Dichloroethane	ND	4.9	
Benzene	ND	4.9	
Methyl tert-Amyl Ether (TAME)	ND	4.9	
Toluene	ND	4.9	
1,2-Dibromoethane	ND	4.9	
Ethylbenzene	ND	4.9	
m,p-Xylenes	ND	4.9	
o-Xylene	ND	4.9	

Surrogate	%REC	Limits	
Dibromofluoromethane	103	78-126	
1,2-Dichloroethane-d4	116	76-135	
Toluene-d8	101	30-120	
Bromofluorobenzene	103	30-126	



Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(C)-30	Diln Fac:	0.9615	
Lab ID:	196134-008	Batch#:	127494	
Matrix:	Soil	Sampled:	07/20/07	
Units:	ug/Kg	Received:	07/23/07	
Basis:	as received	Analyzed:	07/23/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	96	
MTBE	ND	4.8	
Isopropyl Ether (DIPE)	ND	4.8	
Ethyl tert-Butyl Ether (ETBE)	ND	4.8	
1,2-Dichloroethane	ND	4.8	
Benzene	ND	4.8	
Methyl tert-Amyl Ether (TAME)	ND	4.8	
Toluene	ND	4.8	
1,2-Dibromoethane	ND	4.8	
Ethylbenzene	ND	4.8	
m,p-Xylenes	ND	4.8	
o-Xylene	ND	4.8	

Surrogate	%REC	Limits	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	119	76-135	
Toluene-d8	101	80-120	
Bromofluorobenzene	102	80-126	



Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(C)-40	Diln Fac:	0.9804	
Lab ID:	196134-009	Batch#:	127494	
Matrix:	Soil	Sampled:	07/20/07	
Units:	ug/Kg	Received:	07/23/07	
Basis:	as received	Analyzed:	07/23/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	98	
MTBE	ND	4.9	
Isopropyl Ether (DIPE)	ND	4.9	
Ethyl tert-Butyl Ether (ETBE)	ND	4.9	
1,2-Dichloroethane	ND	4.9	
Benzene	ND	4.9	
Methyl tert-Amyl Ether (TAME)	ND	4.9	
Toluene	ND	4.9	
1,2-Dibromoethane	ND	4.9	
Ethylbenzene	ND	4.9	
m,p-Xylenes	ND	4.9	
o-Xylene	ND	4.9	

Surrogate	%REC	Limits	
Dibromofluoromethane	106	78-126	
1,2-Dichloroethane-d4	120	76-135	
Toluene-d8	100	80-120	
Bromofluorobenzene	101	80-126	



Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(C)-51	Diln Fac:	1.000	
Lab ID:	196134-010	Batch#:	127494	
Matrix:	Soil	Sampled:	07/20/07	
Units:	ug/Kg	Received:	07/23/07	
Basis:	as received	Analyzed:	07/23/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	100	
MTBE	ND	5.0	
Isopropyl Ether (DIPE)	ND	5.0	
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	
1,2-Dichloroethane	ND	5.0	
Benzene	ND	5.0	
Methyl tert-Amyl Ether (TAME)	ND	5.0	
Toluene	ND	5.0	
1,2-Dibromoethane	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	

Surrogate	%REC	Limits	
Dibromofluoromethane	107	78-126	
1,2-Dichloroethane-d4	119	76-135	
Toluene-d8	101	80-120	
Bromofluorobenzene	103	80-126	



Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(C)-60.5	Diln Fac:	0.9804	
Lab ID:	196134-011	Batch#:	127494	
Matrix:	Soil	Sampled:	07/20/07	
Units:	ug/Kg	Received:	07/23/07	
Basis:	as received	Analyzed:	07/23/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	98	
MTBE	ND	4.9	
Isopropyl Ether (DIPE)	ND	4.9	
Ethyl tert-Butyl Ether (ETBE)	ND	4.9	
1,2-Dichloroethane	ND	4.9	
Benzene	ND	4.9	
Methyl tert-Amyl Ether (TAME)	ND	4.9	
Toluene	ND	4.9	
1,2-Dibromoethane	ND	4.9	
Ethylbenzene	ND	4.9	
m,p-Xylenes	ND	4.9	
o-Xylene	ND	4.9	

Surrogate	%REC	Limits	
Dibromofluoromethane	107	78-126	
1,2-Dichloroethane-d4	121	76-135	
Toluene-d8	100	80-120	
Bromofluorobenzene	102	80-126	



Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(D)-5.5	Diln Fac:	0.9615	
Lab ID:	196134-013	Batch#:	127494	
Matrix:	Soil	Sampled:	07/20/07	
Units:	ug/Kg	Received:	07/23/07	
Basis:	as received	Analyzed:	07/23/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	96	
MTBE	ND	4.8	
Isopropyl Ether (DIPE)	ND	4.8	
Ethyl tert-Butyl Ether (ETBE)	ND	4.8	
1,2-Dichloroethane	ND	4.8	
Benzene	ND	4.8	
Methyl tert-Amyl Ether (TAME)	ND	4.8	
Toluene	ND	4.8	
1,2-Dibromoethane	ND	4.8	
Ethylbenzene	ND	4.8	
m,p-Xylenes	ND	4.8	
o-Xylene	ND	4.8	

Surrogate	%REC	Limits	
Dibromofluoromethane	108	78-126	
1,2-Dichloroethane-d4	123	76-135	
Toluene-d8	102	80-120	
Bromofluorobenzene	105	80-126	



Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(D)-10.5	Diln Fac:	0.9434	
Lab ID:	196134-014	Batch#:	127494	
Matrix:	Soil	Sampled:	07/20/07	
Units:	ug/Kg	Received:	07/23/07	
Basis:	as received	Analyzed:	07/23/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	94	
MTBE	ND	4.7	
Isopropyl Ether (DIPE)	ND	4.7	
Ethyl tert-Butyl Ether (ETBE)	ND	4.7	
1,2-Dichloroethane	ND	4.7	
Benzene	ND	4.7	
Methyl tert-Amyl Ether (TAME)	ND	4.7	
Toluene	ND	4.7	
1,2-Dibromoethane	ND	4.7	
Ethylbenzene	ND	4.7	
m,p-Xylenes	ND	4.7	
o-Xylene	ND	4.7	

Surrogate	%REC	Limits	
Dibromofluoromethane	109	78-126	
1,2-Dichloroethane-d4	126	76-135	
Toluene-d8	102	80-120	
Bromofluorobenzene	102	80-126	



Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(D)-15	Diln Fac:	0.9091	
Lab ID:	196134-015	Batch#:	127494	
Matrix:	Soil	Sampled:	07/20/07	
Units:	ug/Kg	Received:	07/23/07	
Basis:	as received	Analyzed:	07/24/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	91	
MTBE	ND	4.5	
Isopropyl Ether (DIPE)	ND	4.5	
Ethyl tert-Butyl Ether (ETBE)	ND	4.5	
1,2-Dichloroethane	ND	4.5	
Benzene	ND	4.5	
Methyl tert-Amyl Ether (TAME)	ND	4.5	
Toluene	ND	4.5	
1,2-Dibromoethane	ND	4.5	
Ethylbenzene	ND	4.5	
m,p-Xylenes	ND	4.5	
o-Xylene	ND	4.5	

Surrogate	%REC	Limits	
Dibromofluoromethane	108	78-126	
1,2-Dichloroethane-d4	126	76-135	
Toluene-d8	102	80-120	
Bromofluorobenzene	104	80-126	



07/20/07

07/23/07

BTXE & Oxygenates Hanson Radum 196134 Location: LFR Levine Fricke Prep: EPA 5030B Project#: 001-09567-01 Analysis: EPA 8260B SS-31(D)-19.5 Field ID: Diln Fac: 0.9259 196134-016 Batch#: 127494

Sampled:

Received:

•			.,,,
Basis: as re	eceived	Analyzed: 0	7/24/07
Analyte	Result	t RL	
tert-Butyl Alcohol (TB	BA) ND	93	
MTBE	ND	4.6	
Isopropyl Ether (DIPE)	ND	4.6	
Ethyl tert-Butyl Ether	(ETBE) ND	4.6	
1,2-Dichloroethane	ND	4.6	
Benzene	ND	4.6	
Methyl tert-Amyl Ether	(TAME) ND	4.6	
Toluene	ND	4.6	
1,2-Dibromoethane	ND	4.6	
Ethylbenzene	ND	4.6	
m,p-Xylenes	ND	4.6	
o-Xylene	ND	4.6	

Surrogate	%REC	Limits	
Dibromofluoromethane	108	78-126	
1,2-Dichloroethane-d4	124	76-135	
Toluene-d8	102	80-120	
Bromofluorobenzene	103	80-126	

Lab #:

Client:

Lab ID:

Matrix:

Units:

Soil

ug/Kg



	BTXI	E & Oxygenates		
Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Type:	LCS	Basis:	as received	
Lab ID:	QC397378	Diln Fac:	1.000	
Matrix:	Soil	Batch#:	127494	
Units:	ug/Kg	Analyzed:	07/23/07	

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	125.2	100	56-130
MTBE	25.00	23.94	96	66-120
Isopropyl Ether (DIPE)	25.00	22.73	91	57-120
Ethyl tert-Butyl Ether (ETBE)	25.00	21.67	87	68-120
1,2-Dichloroethane	25.00	25.72	103	73-120
Benzene	25.00	25.43	102	80-120
Methyl tert-Amyl Ether (TAME)	25.00	25.40	102	73-120
Toluene	25.00	25.49	102	80-120
1,2-Dibromoethane	25.00	25.09	100	80-120
Ethylbenzene	25.00	26.99	108	80-125
m,p-Xylenes	50.00	52.22	104	80-123
o-Xylene	25.00	26.38	106	80-122

Surrogate	%REC	Limits	
Dibromofluoromethane	101	78-126	
1,2-Dichloroethane-d4	106	76-135	
Toluene-d8	100	80-120	
Bromofluorobenzene	98	80-126	



	BTXE	E & Oxygenates		
Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Type:	BLANK	Basis:	as received	
Lab ID:	QC397379	Diln Fac:	1.000	
Matrix:	Soil	Batch#:	127494	
Units:	ug/Kg	Analyzed:	07/23/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	100	
MTBE	ND	5.0	
Isopropyl Ether (DIPE)	ND	5.0	
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	
1,2-Dichloroethane	ND	5.0	
Benzene	ND	5.0	
Methyl tert-Amyl Ether (TAME)	ND	5.0	
Toluene	ND	5.0	
1,2-Dibromoethane	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	

Surrogate	%REC	Limits	
Dibromofluoromethane	104	78-126	
1,2-Dichloroethane-d4	107	76-135	
Toluene-d8	98	80-120	
Bromofluorobenzene	100	80-126	



	BTXE & Oxygenates				
Lab #:	196134	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 5030B		
Project#:	001-09567-01	Analysis:	EPA 8260B		
Type:	BLANK	Basis:	as received		
Lab ID:	QC397380	Diln Fac:	1.000		
Matrix:	Soil	Batch#:	127494		
Units:	ug/Kg	Analyzed:	07/23/07		

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	100	
MTBE	ND	5.0	
Isopropyl Ether (DIPE)	ND	5.0	
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	
1,2-Dichloroethane	ND	5.0	
Benzene	ND	5.0	
Methyl tert-Amyl Ether (TAME)	ND	5.0	
Toluene	ND	5.0	
1,2-Dibromoethane	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	

Surrogate	%REC	Limits	
Dibromofluoromethane	93	78-126	
1,2-Dichloroethane-d4	93	76-135	
Toluene-d8	97	80-120	
Bromofluorobenzene	93	80-126	



	BTXE & Oxygenates				
Lab #: Client:	196134 LFR Levine Fricke	Location:	Hanson Radum EPA 5030B		
Project#:	001-09567-01	Prep: Analysis:	EPA 8260B		
Field ID:	ZZZZZZZZZZ	Diln Fac:	0.9804		
MSS Lab ID:	196096-011	Batch#:	127494		
Matrix:	Soil	Sampled:	07/17/07		
Units:	ug/Kg	Received:	07/19/07		
Basis:	as received	Analyzed:	07/23/07		

Type: MS			Lab ID:	QC397381		
Analyte	MSS	Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)		<3.013	245.1	162.3	66	45-123
MTBE		1.011	49.02	41.34	82	55-120
Isopropyl Ether (DIPE)		<0.1696	49.02	41.09	84	50-120
Ethyl tert-Butyl Ether (ETBE)		<0.08887	49.02	39.85	81	58-120
1,2-Dichloroethane		<0.1943	49.02	42.15	86	56-120
Benzene		0.2064	49.02	47.19	96	61-122
Methyl tert-Amyl Ether (TAME)		<0.1769	49.02	43.93	90	60-120
Toluene		<0.5418	49.02	44.85	92	57-124
1,2-Dibromoethane		<0.2179	49.02	39.30	80	57-120
Ethylbenzene		<0.5715	49.02	42.87	87	55-129
m,p-Xylenes		<1.282	98.04	81.15	83	53-127
o-Xylene		<0.5054	49.02	41.21	84	54-127
Surrogate	%REC	Limits				
Dibromofluoromethane	100	78-126				
1,2-Dichloroethane-d4	92	76-135				
Toluene-d8	99	80-120				
Bromofluorobenzene	106	80-126				

Type: MSD			Lab ID:	QC3	97382			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)		245.1		140.9	57	45-123	14	32
MTBE		49.02		38.58	77	55-120	7	20
Isopropyl Ether (DIPE)		49.02		40.43	82	50-120	2	20
Ethyl tert-Butyl Ether (ETBE)		49.02		39.10	80	58-120	2	20
1,2-Dichloroethane		49.02		37.01	76	56-120	13	20
Benzene		49.02		46.77	95	61-122	1	20
Methyl tert-Amyl Ether (TAME)		49.02		44.24	90	60-120	1	20
Toluene		49.02		46.95	96	57-124	5	21
1,2-Dibromoethane		49.02		36.61	75	57-120	7	20
Ethylbenzene		49.02		47.19	96	55-129	10	23
m,p-Xylenes		98.04		92.06	94	53-127	13	23
o-Xylene		49.02		45.41	93	54-127	10	22
Surrogate	%REC	Limits						
Dibromofluoromethane	92	78-126						
1,2-Dichloroethane-d4	81	76-135						
Toluene-d8	97	80-120						
Bromofluorobenzene	99	80-126						



	Semivolatile	Organics by GC	/MS
Lab #:	196134	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 3550B
Project#:	001-09567-01	Analysis:	EPA 8270C
Field ID:	SS-31(C)-5.5	Batch#:	127543
Lab ID:	196134-003	Sampled:	07/20/07
Matrix:	Soil	Received:	07/23/07
Units:	ug/Kg	Prepared:	07/24/07
Basis:	as received	Analyzed:	07/25/07
Diln Fac:	1.000	_	

Analyte	Result	RL	
N-Nitrosodimethylamine	ND	330	
Phenol	ND	330	
bis(2-Chloroethyl)ether	ND	330	
2-Chlorophenol	ND	330	
1,3-Dichlorobenzene	ND	330	
1,4-Dichlorobenzene	ND	330	
Benzyl alcohol	ND ND	330	
1,2-Dichlorobenzene	ND ND	330	
	ND ND	330	
2-Methylphenol	ND ND	330	
bis(2-Chloroisopropyl) ether	ND ND	330	
4-Methylphenol		330	
N-Nitroso-di-n-propylamine	ND ND	330	
Hexachloroethane Nitrobenzene		330	
	ND	330	
Isophorone	ND		
2-Nitrophenol	ND	660	
2,4-Dimethylphenol	ND	330	
Benzoic acid	ND	1,700	
bis(2-Chloroethoxy)methane	ND	330	
2,4-Dichlorophenol	ND	330	
1,2,4-Trichlorobenzene	ND	330	
Naphthalene	ND	66	
4-Chloroaniline	ND	330	
Hexachlorobutadiene	ND	330	
4-Chloro-3-methylphenol	ND	330	
2-Methylnaphthalene	ND	66	
Hexachlorocyclopentadiene	ND	660	
2,4,6-Trichlorophenol	ND	330	
2,4,5-Trichlorophenol	ND	330	
2-Chloronaphthalene	ND	330	
2-Nitroaniline	ND	660	
Dimethylphthalate	ND	330	
Acenaphthylene	ND	66	
2,6-Dinitrotoluene	ND	330	
3-Nitroaniline	ND	660	
Acenaphthene	ND	66	
2,4-Dinitrophenol	ND	660	
4-Nitrophenol	ND	660	
Dibenzofuran	ND	330	
2,4-Dinitrotoluene	ND	330	
Diethylphthalate	ND	330	
Fluorene	ND	66	
4-Chlorophenyl-phenylether	ND	330	
4-Nitroaniline	ND	660	
4,6-Dinitro-2-methylphenol	ND	660	
N-Nitrosodiphenylamine	ND	330	
Azobenzene	ND	330	
4-Bromophenyl-phenylether	ND	330	
Hexachlorobenzene	ND	330	
Pentachlorophenol	ND	660	
Phenanthrene	ND	66	
Anthracene	ND	66	
Di-n-butylphthalate	ND	330	

ND= Not Detected RL= Reporting Limit Page 1 of 2



Semivolatile Organics by GC/MS				
Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8270C	
Field ID:	SS-31(C)-5.5	Batch#:	127543	
Lab ID:	196134-003	Sampled:	07/20/07	
Matrix:	Soil	Received:	07/23/07	
Units:	ug/Kg	Prepared:	07/24/07	
Basis:	as received	Analyzed:	07/25/07	
Diln Fac:	1.000			

Analyte	Result	RL	
Fluoranthene	ND	66	
Pyrene	ND	66	
Butylbenzylphthalate	ND	330	
3,3'-Dichlorobenzidine	ND	660	
Benzo(a)anthracene	ND	66	
Chrysene	ND	66	
bis(2-Ethylhexyl)phthalate	ND	330	
Di-n-octylphthalate	ND	330	
Benzo(b)fluoranthene	ND	66	
Benzo(k)fluoranthene	ND	66	
Benzo(a)pyrene	ND	66	
Indeno(1,2,3-cd)pyrene	ND	66	
Dibenz(a,h)anthracene	ND	66	
Benzo(g,h,i)perylene	ND	66	
Surrogate	%REC Limits		
2-Fluorophenol	50 28-120		
Phenol-d5	57 30-120		
2,4,6-Tribromophenol	73 20-120		
Nitrobenzene-d5	52 39-120		
2-Fluorobiphenyl	61 44-120		
Terphenyl-d14	64 39-120		



Semivolatile Organics by GC/MS			
Lab #:	196134	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 3550B
Project#:	001-09567-01	Analysis:	EPA 8270C
Field ID:	SS-31(C)-10.5	Batch#:	127543
Lab ID:	196134-004	Sampled:	07/20/07
Matrix:	Soil	Received:	07/23/07
Units:	ug/Kg	Prepared:	07/24/07
Basis:	as received	Analyzed:	07/25/07
Diln Fac:	1.000	_	

Analyte	Result	RL	
N-Nitrosodimethylamine	ND	330	
Phenol	ND	330	
bis(2-Chloroethyl)ether	ND	330	
2-Chlorophenol	ND	330	
1,3-Dichlorobenzene	ND ND	330	
		330	
1,4-Dichlorobenzene	ND		
Benzyl alcohol	ND	330	
1,2-Dichlorobenzene	ND	330	
2-Methylphenol	ND	330	
bis(2-Chloroisopropyl) ether	ND	330	
4-Methylphenol	ND	330	
N-Nitroso-di-n-propylamine	ND	330	
Hexachloroethane	ND	330	
Nitrobenzene	ND	330	
Isophorone	ND	330	
2-Nitrophenol	ND	660	
2,4-Dimethylphenol	ND	330	
Benzoic acid	ND	1,700	
bis(2-Chloroethoxy)methane	ND	330	
2,4-Dichlorophenol	ND	330	
1,2,4-Trichlorobenzene	ND	330	
Naphthalene	ND	66	
4-Chloroaniline	ND	330	
Hexachlorobutadiene	ND	330	
4-Chloro-3-methylphenol	ND	330	
2-Methylnaphthalene	ND	66	
Hexachlorocyclopentadiene	ND	660	
2,4,6-Trichlorophenol	ND	330	
2,4,5-Trichlorophenol	ND	330	
2-Chloronaphthalene	ND	330	
2-Nitroaniline	ND	660	
Dimethylphthalate	ND	330	
Acenaphthylene	ND	66	
2,6-Dinitrotoluene	ND	330	
3-Nitroaniline	ND	660	
Acenaphthene	ND	66	
2,4-Dinitrophenol	ND	660	
4-Nitrophenol	ND ND	660	
Dibenzofuran	ND ND	330	
2,4-Dinitrotoluene	ND ND	330	
Diethylphthalate	ND ND	330	
	ND ND	66	
Fluorene		330	
4-Chlorophenyl-phenylether	ND		
4-Nitroaniline	ND	660	
4,6-Dinitro-2-methylphenol	ND	660	
N-Nitrosodiphenylamine	ND	330	
Azobenzene	ND	330	
4-Bromophenyl-phenylether	ND	330	
Hexachlorobenzene	ND	330	
Pentachlorophenol	ND	660	
Phenanthrene	ND	66	
Anthracene	ND	66	
Di-n-butylphthalate	ND	330	

ND= Not Detected RL= Reporting Limit Page 1 of 2



Semivolatile Organics by GC/MS			
Lab #:	196134	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 3550B
Project#:	001-09567-01	Analysis:	EPA 8270C
Field ID:	SS-31(C)-10.5	Batch#:	127543
Lab ID:	196134-004	Sampled:	07/20/07
Matrix:	Soil	Received:	07/23/07
Units:	ug/Kg	Prepared:	07/24/07
Basis:	as received	Analyzed:	07/25/07
Diln Fac:	1.000		

Analyte	Result	RL	
Fluoranthene	ND	66	
Pyrene	ND	66	
Butylbenzylphthalate	ND	330	
3,3 [°] -Dichlorobenzidine	ND	660	
Benzo(a)anthracene	ND	66	
Chrysene	ND	66	
bis(2-Ethylhexyl)phthalate	ND	330	
Di-n-octylphthalate	ND	330	
Benzo(b)fluoranthene	ND	66	
Benzo(k)fluoranthene	ND	66	
Benzo(a)pyrene	ND	66	
Indeno(1,2,3-cd)pyrene	ND	66	
Dibenz(a,h)anthracene	ND	66	
Benzo(g,h,i)perylene	ND	66	
Current and ha	PEG Limita		
Surrogate	<u>%REC Limits</u> 59 28-120		
2-Fluorophenol Phenol-d5			
2,4,6-Tribromophenol Nitrobenzene-d5	79 20-120 59 39-120		
2-Fluorobiphenyl	60 44-120		
Terphenyl-d14	67 39-120		



Semivolatile Organics by GC/MS			
Lab #:	196134	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 3550B
Project#:	001-09567-01	Analysis:	EPA 8270C
Field ID:	SS-31(D)-5.5	Batch#:	127543
Lab ID:	196134-013	Sampled:	07/20/07
Matrix:	Soil	Received:	07/23/07
Units:	ug/Kg	Prepared:	07/24/07
Basis: Diln Fac:	as received 1.000	Analyzed:	07/25/07

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND ND	330
		330
1,4-Dichlorobenzene	ND	
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	660
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,600
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	66
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	66
Hexachlorocyclopentadiene	ND	660
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	660
Dimethylphthalate	ND	330
Acenaphthylene	ND	66
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	660
Acenaphthene	ND	66
2,4-Dinitrophenol	ND	660
4-Nitrophenol	ND ND	660
Dibenzofuran	ND ND	330
2,4-Dinitrotoluene	ND ND	330
Diethylphthalate	ND ND	330
	ND ND	66
Fluorene		330
4-Chlorophenyl-phenylether	ND	
4-Nitroaniline	ND	660
4,6-Dinitro-2-methylphenol	ND	660
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	660
Phenanthrene	ND	66
Anthracene	ND	66
Di-n-butylphthalate	ND	330

ND= Not Detected RL= Reporting Limit Page 1 of 2



Semivolatile Organics by GC/MS				
Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8270C	
Field ID:	SS-31(D)-5.5	Batch#:	127543	
Lab ID:	196134-013	Sampled:	07/20/07	
Matrix:	Soil	Received:	07/23/07	
Units:	ug/Kg	Prepared:	07/24/07	
Basis:	as received	Analyzed:	07/25/07	
Diln Fac:	1.000			

Analyte	Result	RL	
Fluoranthene	ND	66	
Pyrene	ND	66	
Butylbenzylphthalate	ND	330	
3,3'-Dichlorobenzidine	ND	660	
Benzo(a)anthracene	ND	66	
Chrysene	ND	66	
bis(2-Ethylhexyl)phthalate	ND	330	
Di-n-octylphthalate	ND	330	
Benzo(b)fluoranthene	ND	66	
Benzo(k)fluoranthene	ND	66	
Benzo(a)pyrene	ND	66	
Indeno(1,2,3-cd)pyrene	ND	66	
Dibenz(a,h)anthracene	ND	66	
Benzo(g,h,i)perylene	ND	66	
Surrogate	%REC Limits		
2-Fluorophenol	55 28-120		
Phenol-d5	58 30-120		
2,4,6-Tribromophenol	72 20-120		
Nitrobenzene-d5	54 39-120		
2-Fluorobiphenyl	60 44-120		
Terphenyl-d14	65 39-120		



Semivolatile Organics by GC/MS			
Lab #:	196134	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 3550B
Project#:	001-09567-01	Analysis:	EPA 8270C
Field ID:	SS-31(D)-10.5	Batch#:	127666
Lab ID:	196134-014	Sampled:	07/20/07
Matrix:	Soil	Received:	07/23/07
Units:	ug/Kg	Prepared:	07/26/07
Basis: Diln Fac:	as received 1.000	Analyzed:	07/26/07

Analyte	Result	RL	
N-Nitrosodimethylamine	ND	330	_
Phenol	ND	330	
bis(2-Chloroethyl)ether	ND	330	
2-Chlorophenol	ND	330	
	ND ND	330	
1,3-Dichlorobenzene		330	
1,4-Dichlorobenzene	ND		
Benzyl alcohol	ND	330	
1,2-Dichlorobenzene	ND	330	
2-Methylphenol	ND	330	
bis(2-Chloroisopropyl) ether	ND	330	
4-Methylphenol	ND	330	
N-Nitroso-di-n-propylamine	ND	330	
Hexachloroethane	ND	330	
Nitrobenzene	ND	330	
Isophorone	ND	330	
2-Nitrophenol	ND	670	
2,4-Dimethylphenol	ND	330	
Benzoic acid	ND	1,700	
bis(2-Chloroethoxy)methane	ND	330	
2,4-Dichlorophenol	ND	330	
1,2,4-Trichlorobenzene	ND	330	
Naphthalene	ND	67	
4-Chloroaniline	ND	330	
Hexachlorobutadiene	ND	330	
4-Chloro-3-methylphenol	ND	330	
2-Methylnaphthalene	ND	67	
Hexachlorocyclopentadiene	ND	670	
2,4,6-Trichlorophenol	ND	330	
2,4,5-Trichlorophenol	ND	330	
2-Chloronaphthalene	ND	330	
2-Nitroaniline	ND	670	
Dimethylphthalate	ND	330	
Acenaphthylene	ND	67	
2,6-Dinitrotoluene	ND	330	
3-Nitroaniline	ND	670	
Acenaphthene	ND	67	
2,4-Dinitrophenol	ND	670	
4-Nitrophenol	ND	670	
Dibenzofuran	ND ND	330	
2,4-Dinitrotoluene	ND ND	330	
Diethylphthalate	ND ND	330	
	ND ND	67	
Fluorene 4-Chlorophenyl-phenylether	ND ND	330	
		670	
4-Nitroaniline	ND		
4,6-Dinitro-2-methylphenol	ND	670	
N-Nitrosodiphenylamine	ND	330	
Azobenzene	ND	330	
4-Bromophenyl-phenylether	ND	330	
Hexachlorobenzene	ND	330	
Pentachlorophenol	ND	670	
Phenanthrene	ND	67	
Anthracene	ND	67	
Di-n-butylphthalate	ND	330	

ND= Not Detected RL= Reporting Limit Page 1 of 2



Semivolatile Organics by GC/MS					
Lab #:	196134	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3550B		
Project#:	001-09567-01	Analysis:	EPA 8270C		
Field ID:	SS-31(D)-10.5	Batch#:	127666		
Lab ID:	196134-014	Sampled:	07/20/07		
Matrix:	Soil	Received:	07/23/07		
Units:	ug/Kg	Prepared:	07/26/07		
Basis:	as received	Analyzed:	07/26/07		
Diln Fac:	1.000				

Analyte	Result	RL
Fluoranthene	ND	67
Pyrene	ND	67
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	670
Benzo(a)anthracene	ND	67
Chrysene	ND	67
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	67
Benzo(k)fluoranthene	ND	67
Benzo(a)pyrene	ND	67
Indeno(1,2,3-cd)pyrene	ND	67
Dibenz(a,h)anthracene	ND	67
Benzo(g,h,i)perylene	ND	67
Surrogate	<u>%REC</u> Limits	
2-Fluorophenol	74 28-120	
Phenol-d5	75 30-120	
2,4,6-Tribromophenol	82 20-120	
Nitrobenzene-d5	73 39-120	
2-Fluorobiphenyl	72 44-120	
Terphenyl-d14	68 39-120	



	Semivolat:	ile Organics by G	C/MS	
Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8270C	
Type:	BLANK	Diln Fac:	1.000	
Lab ID:	QC397616	Batch#:	127543	
Matrix:	Soil	Prepared:	07/24/07	
Units:	uq/Kq	Analyzed:	07/24/07	
Basis:	as received	-		

Analyte	Result	RL	
N-Nitrosodimethylamine	ND	330	
Phenol	ND	330	
bis(2-Chloroethyl)ether	ND	330	
2-Chlorophenol	ND	330	
1,3-Dichlorobenzene	ND	330	
1,4-Dichlorobenzene	ND	330	
Benzyl alcohol	ND	330	
	ND	330	
1,2-Dichlorobenzene		330	
2-Methylphenol	ND		
bis(2-Chloroisopropyl) ether	ND	330	
4-Methylphenol	ND	330	
N-Nitroso-di-n-propylamine	ND	330	
Hexachloroethane	ND	330	
Nitrobenzene	ND	330	
Isophorone	ND	330	
2-Nitrophenol	ND	660	
2,4-Dimethylphenol	ND	330	
Benzoic acid	ND	1,700	
bis(2-Chloroethoxy)methane	ND	330	
2,4-Dichlorophenol	ND	330	
1,2,4-Trichlorobenzene	ND	330	
Naphthalene	ND	66	
4-Chloroaniline	ND	330	
Hexachlorobutadiene	ND	330	
4-Chloro-3-methylphenol	ND	330	
2-Methylnaphthalene	ND	66	
Hexachlorocyclopentadiene	ND	660	
2,4,6-Trichlorophenol	ND	330	
2,4,5-Trichlorophenol	ND	330	
2-Chloronaphthalene	ND	330	
2-Nitroaniline	ND	660	
	ND	330	
Dimethylphthalate		66	
Acenaphthylene	ND		
2,6-Dinitrotoluene	ND	330	
3-Nitroaniline	ND	660	
Acenaphthene	ND	66	
2,4-Dinitrophenol	ND	660	
4-Nitrophenol	ND	660	
Dibenzofuran	ND	330	
2,4-Dinitrotoluene	ND	330	
Diethylphthalate	ND	330	
Fluorene	ND	66	
4-Chlorophenyl-phenylether	ND	330	
4-Nitroaniline	ND	660	
4,6-Dinitro-2-methylphenol	ND	660	
N-Nitrosodiphenylamine	ND	330	
Azobenzene	ND	330	
4-Bromophenyl-phenylether	ND	330	
Hexachlorobenzene	ND	330	
Pentachlorophenol	ND	660	
Phenanthrene	ND	66	
Anthracene	ND	66	
Di-n-butylphthalate	ND	330	
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ND= Not Detected RL= Reporting Limit



	Semivolat	ile Organics by G	C/MS	
Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8270C	
Type: Lab ID:	BLANK	Diln Fac:	1.000	
Lab ID:	QC397616	Batch#:	127543	
Matrix:	Soil	Prepared:	07/24/07	
Units:	ug/Kg	Analyzed:	07/24/07	
Basis:	as received	_		

Analyte	Result	RL	
Fluoranthene	ND	66	
Pyrene	ND	66	
Butylbenzylphthalate	ND	330	
3,3'-Dichlorobenzidine	ND	660	
Benzo(a)anthracene	ND	66	
Chrysene	ND	66	
bis(2-Ethylhexyl)phthalate	ND	330	
Di-n-octylphthalate	ND	330	
Benzo(b)fluoranthene	ND	66	
Benzo(k)fluoranthene	ND	66	
Benzo(a)pyrene	ND	66	
Indeno(1,2,3-cd)pyrene	ND	66	
Dibenz(a,h)anthracene	ND	66	
Benzo(g,h,i)perylene	ND	66	
Surrogate	%REC Limits		
2-Fluorophenol	70 28-120		
Phenol-d5	69 30-120		
2,4,6-Tribromophenol	88 20-120		
Nitrobenzene-d5	69 <u>39-120</u>		
2-Fluorobiphenyl	78 44-120		
Terphenyl-d14	73 39-120		
Terbuenta-ara	75 59-120		



	Semivolati	le Organics by G	C/MS	
Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8270C	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC397617	Batch#:	127543	
Matrix:	Soil	Prepared:	07/24/07	
Units:	ug/Kg	Analyzed:	07/24/07	
Basis:	as received			

Analyte	Spiked	Result	%REC	Limits
Phenol	2,655	1,849	70	40-120
2-Chlorophenol	2,655	1,833	69	40-120
1,4-Dichlorobenzene	1,328	1,047	79	45-120
N-Nitroso-di-n-propylamine	1,328	824.0	62	34-120
1,2,4-Trichlorobenzene	1,328	1,094	82	45-120
4-Chloro-3-methylphenol	2,655	2,184	82	45-120
Acenaphthene	1,328	1,020	77	42-120
4-Nitrophenol	2,655	1,856	70	31-120
2,4-Dinitrotoluene	1,328	1,196	90	41-120
Pentachlorophenol	2,655	2,245	85	21-120
Pyrene	1,328	1,094	82	41-120

Surrogate	%REC	Limits
2-Fluorophenol	66	28-120
Phenol-d5	68	30-120
2,4,6-Tribromophenol	102	20-120
Nitrobenzene-d5	68	39-120
2-Fluorobiphenyl	75	44-120
Terphenyl-d14	76	39-120



	Semivolat	ile Organics by G	C/MS	
Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8270C	
Type:	BLANK	Diln Fac:	1.000	
Lab ID:	QC398143	Batch#:	127666	
Matrix:	Soil	Prepared:	07/26/07	
Units:	ug/Kg	Analyzed:	07/26/07	
Basis:	as received	-		

Analyte	Result	RL	
N-Nitrosodimethylamine	ND	330	
Phenol	ND	330	
bis(2-Chloroethyl)ether	ND	330	
2-Chlorophenol	ND	330	
1,3-Dichlorobenzene	ND	330	
1,4-Dichlorobenzene	ND	330	
Benzyl alcohol	ND	330	
1,2-Dichlorobenzene	ND	330	
2-Methylphenol	ND	330	
bis(2-Chloroisopropyl) ether	ND	330	
4-Methylphenol	ND	330	
N-Nitroso-di-n-propylamine	ND	330	
Hexachloroethane	ND ND	330	
Nitrobenzene	ND ND	330	
		330	
Isophorone	ND		
2-Nitrophenol	ND	660	
2,4-Dimethylphenol	ND	330	
Benzoic acid	ND	1,600	
bis(2-Chloroethoxy)methane	ND	330	
2,4-Dichlorophenol	ND	330	
1,2,4-Trichlorobenzene	ND	330	
Naphthalene	ND	66	
4-Chloroaniline	ND	330	
Hexachlorobutadiene	ND	330	
4-Chloro-3-methylphenol	ND	330	
2-Methylnaphthalene	ND	66	
Hexachlorocyclopentadiene	ND	660	
2,4,6-Trichlorophenol	ND	330	
2,4,5-Trichlorophenol	ND	330	
2-Chloronaphthalene	ND	330	
2-Nitroaniline	ND	660	
Dimethylphthalate	ND	330	
Acenaphthylene	ND	66	
2,6-Dinitrotoluene	ND	330	
3-Nitroaniline	ND	660	
Acenaphthene	ND	66	
2,4-Dinitrophenol	ND	660	
4-Nitrophenol	ND	660	
Dibenzofuran	ND	330	
2,4-Dinitrotoluene	ND	330	
Diethylphthalate	ND	330	
Fluorene	ND	66	
4-Chlorophenyl-phenylether	ND	330	
4-Nitroaniline	ND	660	
4,6-Dinitro-2-methylphenol	ND	660	
N-Nitrosodiphenylamine	ND	330	
Azobenzene	ND	330	
4-Bromophenyl-phenylether	ND	330	
Hexachlorobenzene	ND	330	
Pentachlorophenol	ND	660	
Phenanthrene	ND	66	
Anthracene	ND	66	
Di-n-butylphthalate	ND	330	
22 II Sucjiphichatace	112	550	

ND= Not Detected RL= Reporting Limit



	Semivolat	ile Organics by G	C/MS	
Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8270C	
Type: Lab ID:	BLANK	Diln Fac:	1.000	
Lab ID:	QC398143	Batch#:	127666	
Matrix:	Soil	Prepared:	07/26/07	
Units:	ug/Kg	Analyzed:	07/26/07	
Basis:	as received	_		

Analyte	Result	RL	
Fluoranthene	ND	66	
Pyrene	ND	66	
Butylbenzylphthalate	ND	330	
3,3'-Dichlorobenzidine	ND	660	
Benzo(a)anthracene	ND	66	
Chrysene	ND	66	
bis(2-Ethylhexyl)phthalate	ND	330	
Di-n-octylphthalate	ND	330	
Benzo(b)fluoranthene	ND	66	
Benzo(k)fluoranthene	ND	66	
Benzo(a)pyrene	ND	66	
Indeno(1,2,3-cd)pyrene	ND	66	
Dibenz(a,h)anthracene	ND	66	
Benzo(g,h,i)perylene	ND	66	
Surrogate	%REC Limits		
2-Fluorophenol	75 28-120		
Phenol-d5	79 30-120		
2,4,6-Tribromophenol	85 20-120		
Nitrobenzene-d5	75 39-120		
2-Fluorobiphenyl	79 44-120		
Terphenyl-d14	73 39-120		



	Semivolat	ile Organics by (GC/MS	
Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8270C	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC398144	Batch#:	127666	
Matrix:	Soil	Prepared:	07/26/07	
Units:	ug/Kg	Analyzed:	07/26/07	
Basis:	as received			

Analyte	Spiked	Result	%REC	Limits
Phenol	2,644	1,927	73	40-120
2-Chlorophenol	2,644	1,921	73	40-120
1,4-Dichlorobenzene	1,322	1,044	79	45-120
N-Nitroso-di-n-propylamine	1,322	922.2	70	34-120
1,2,4-Trichlorobenzene	1,322	1,078	82	45-120
4-Chloro-3-methylphenol	2,644	2,099	79	45-120
Acenaphthene	1,322	996.4	75	42-120
4-Nitrophenol	2,644	1,885	71	31-120
2,4-Dinitrotoluene	1,322	1,111	84	41-120
Pentachlorophenol	2,644	1,824	69	21-120
Pyrene	1,322	1,004	76	41-120

Surrogate	%REC	Limits
2-Fluorophenol	69	28-120
Phenol-d5	73	30-120
2,4,6-Tribromophenol	99	20-120
Nitrobenzene-d5	71	39-120
2-Fluorobiphenyl	74	44-120
Terphenyl-d14	71	39-120



	Semivolatile (Organics by GC/	'MS
Lab #:	196134	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 3550B
Project#:	001-09567-01	Analysis:	EPA 8270C
Field ID:	ZZZZZZZZZ	Batch#:	127666
MSS Lab ID:	196124-006	Sampled:	07/20/07
Matrix:	Soil	Received:	07/20/07
Units:	ug/Kg	Prepared:	07/26/07
Basis:	as received	Analyzed:	07/27/07
Diln Fac:	1.000	_	

Type: MS		Lab ID:	QC398145		
Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<68.23	2,659	1,835	69	38-120
2-Chlorophenol	<71.02	2,659	1,856	70	38-120
1,4-Dichlorobenzene	<16.96	1,329	1,049	79	49-120
N-Nitroso-di-n-propylamine	<14.03	1,329	841.8	63	43-120
1,2,4-Trichlorobenzene	<15.15	1,329	1,107	83	47-120
4-Chloro-3-methylphenol	<70.29	2,659	2,005	75	44-120
Acenaphthene	<14.95	1,329	954.3	72	48-120
4-Nitrophenol	<84.28	2,659	1,630	61	30-120
2,4-Dinitrotoluene	<15.28	1,329	1,051	79	41-120
Pentachlorophenol	<66.87	2,659	1,193	45	13-120
Pyrene	<14.94	1,329	948.4	71	42-120
Gummogoto	%REC Limits				
Surrogate					
2-Fluorophenol	69 28-120				
Phenol-d5	70 30-120				

Surrogate	%REC	LIMITS	
2-Fluorophenol	69	28-120	
Phenol-d5	70	30-120	
2,4,6-Tribromophenol	99	20-120	
Nitrobenzene-d5	69	39-120	
2-Fluorobiphenyl	75	44-120	
Terphenyl-d14	70	39-120	

Type: MSD		Lab ID:	QC398146		
Analyte	Spiked	Result	%REC	Limits 3	RPD Lim
Phenol	2,659	1,893	71	38-120	3 26
2-Chlorophenol	2,659	1,879	71	38-120	1 28
1,4-Dichlorobenzene	1,329	1,001	75	49-120	5 27
N-Nitroso-di-n-propylamine	1,329	906.8	68	43-120	7 28
1,2,4-Trichlorobenzene	1,329	1,093	82	47-120	1 26
4-Chloro-3-methylphenol	2,659	2,159	81	44-120	7 28
Acenaphthene	1,329	1,015	76	48-120	6 29
4-Nitrophenol	2,659	1,858	70	30-120	13 38
2,4-Dinitrotoluene	1,329	1,129	85	41-120	7 26
Pentachlorophenol	2,659	1,279	48	13-120	7 55
Pyrene	1,329	1,038	78	42-120	9 30
Surrogate	%REC Limits				
2-Fluorophenol	69 28-120				
Phenol-d5	73 30-120				
2,4,6-Tribromophenol	103 20-120				
Nitrobenzene-d5	72 39-120				
2-Fluorobiphenyl	77 44-120				
Terphenyl-d14	76 39-120				



	Semivolatile C	organics by GC/	MS
Lab #:	196134	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 3550B
Project#:	001-09567-01	Analysis:	EPA 8270C
Field ID:	ZZZZZZZZZ	Batch#:	127666
MSS Lab ID:	196215-012	Sampled:	07/24/07
Matrix:	Soil	Received:	07/25/07
Units:	ug/Kg	Prepared:	07/26/07
Basis:	as received	Analyzed:	07/27/07
Diln Fac:	1.000	-	

Type: MS		Lab ID:	QC398147		
Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<67.94	2,665	2,098	79	38-120
2-Chlorophenol	<70.72	2,665	2,076	78	38-120
1,4-Dichlorobenzene	<16.89	1,332	1,150	86	49-120
N-Nitroso-di-n-propylar	nine <13.97	1,332	1,017	76	43-120
1,2,4-Trichlorobenzene	<15.09	1,332	1,169	88	47-120
4-Chloro-3-methylpheno	L <69.99	2,665	2,229	84	44-120
Acenaphthene	<14.89	1,332	1,051	79	48-120
4-Nitrophenol	<83.91	2,665	2,029	76	30-120
2,4-Dinitrotoluene	<15.22	1,332	1,131	85	41-120
Pentachlorophenol	<66.58	2,665	1,888	71	13-120
Pyrene	<14.88	1,332	1,059	79	42-120
Surrogate	%REC Limits				
2-Fluorophenol	77 28-120				
Phenol-d5	80 30-120				
2,4,6-Tribromophenol	103 20-120				
Nithinghomeono d					

	Analyte		Spiked		Result	%REC	Limits	RPD Li	m
Туре:	MSD			Lab ID:		QC398148			
Nitrober 2-Fluoro Terpheny	obiphenyl	79 79 75	39-120 44-120 39-120						

Analyte	L L	spiked	Result	%REC	Limits	RPD	Lim
Phenol	2	2,658	1,857	70	38-120	12	26
2-Chlorophenol	2	2,658	1,879	71	38-120	10	28
1,4-Dichlorobenzene	1	,329	1,039	78	49-120	10	27
N-Nitroso-di-n-propylamine	1	,329	881.9	66	43-120	14	28
1,2,4-Trichlorobenzene		,329	1,084	82	47-120	7	26
4-Chloro-3-methylphenol	2	2,658	2,056	77	44-120	8	28
Acenaphthene	1	,329	970.9	73	48-120	8	29
4-Nitrophenol	2	2,658	1,807	68	30-120	11	38
2,4-Dinitrotoluene	1	,329	1,054	79	41-120	7	26
Pentachlorophenol	2	2,658	1,838	69	13-120	2	55
Pyrene	1	,329	954.3	72	42-120	10	30
Surrogate	%REC	Limits					
2-Fluorophenol	69	28-120					
Phenol-d5	71	30-120					
2,4,6-Tribromophenol	98	20-120					
Nitrobenzene-d5	69	39-120					
2-Fluorobiphenyl	73	44-120					
Terphenyl-d14	68	39-120					



Organochlorine Pesticides				
Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8081A	
Field ID:	SS-31(C)-5.5	Batch#:	127545	
Lab ID:	196134-003	Sampled:	07/20/07	
Matrix:	Soil	Received:	07/23/07	
Units:	ug/Kg	Prepared:	07/24/07	
Basis:	as received	Analyzed:	07/26/07	
Diln Fac:	1.000			

Analyte	Result	RL	
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.3	
4,4'-DDE	ND	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin aldehyde	ND	3.3	
4,4'-DDT	ND	3.3	
alpha-Chlordane	ND	1.7	
gamma-Chlordane	ND	1.7	
Methoxychlor	ND	17	
Toxaphene	ND	60	

Surrogate	%REC	Limits
TCMX	77	50-120
Decachlorobiphenyl	85	54-133



Organochlorine Pesticides				
Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8081A	
Field ID:	SS-31(C)-10.5	Batch#:	127545	
Lab ID:	196134-004	Sampled:	07/20/07	
Matrix:	Soil	Received:	07/23/07	
Units:	ug/Kg	Prepared:	07/24/07	
Basis:	as received	Analyzed:	07/26/07	
Diln Fac:	1.000			

Analyte	Result	RL	
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.3	
4,4'-DDE	ND	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin aldehyde	ND	3.3	
4,4'-DDT	ND	3.3	
alpha-Chlordane	ND	1.7	
gamma-Chlordane	ND	1.7	
Methoxychlor	ND	17	
Toxaphene	ND	60	

Surrogate	%REC	Limits
TCMX	92	50-120
Decachlorobiphenyl	100	54-133



Organochlorine Pesticides				
Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8081A	
Field ID:	SS-31(D)-5.5	Batch#:	127545	
Lab ID:	196134-013	Sampled:	07/20/07	
Matrix:	Soil	Received:	07/23/07	
Units:	ug/Kg	Prepared:	07/24/07	
Basis:	as received	Analyzed:	07/26/07	
Diln Fac:	1.000			

Analyte	Result	RL	
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.3	
4,4'-DDE	ND	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin aldehyde	ND	3.3	
4,4'-DDT	ND	3.3	
alpha-Chlordane	ND	1.7	
gamma-Chlordane	ND	1.7	
Methoxychlor	ND	17	
Toxaphene	ND	60	

Surrogate	%REC	Limits
TCMX	102	50-120
Decachlorobiphenyl	113	54-133



Organochlorine Pesticides				
Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3550B	
Project#:	001-09567-01	Analysis:	EPA 8081A	
Field ID:	SS-31(D)-10.5	Batch#:	127545	
Lab ID:	196134-014	Sampled:	07/20/07	
Matrix:	Soil	Received:	07/23/07	
Units:	ug/Kg	Prepared:	07/24/07	
Basis:	as received	Analyzed:	07/26/07	
Diln Fac:	1.000			

Analyte	Result	RL	
alpha-BHC	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.3	
4,4'-DDE	ND	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin aldehyde	ND	3.3	
4,4'-DDT	ND	3.3	
alpha-Chlordane	ND	1.7	
gamma-Chlordane	ND	1.7	
Methoxychlor	ND	17	
Toxaphene	ND	60	

Surrogate	%REC	Limits
TCMX	98	50-120
Decachlorobiphenyl	107	54-133



	Organochlorine Pesticides								
Lab #:	196134	Location:	Hanson Radum						
Client:	LFR Levine Fricke	Prep:	EPA 3550B						
Project#:	001-09567-01	Analysis:	EPA 8081A						
Type:	BLANK	Diln Fac:	1.000						
Lab ID:	QC397627	Batch#:	127545						
Matrix:	Soil	Prepared:	07/24/07						
Units:	ug/Kg	Analyzed:	07/25/07						
Basis:	as received								

alpha-BHC			
-	ND	1.7	
beta-BHC	ND	1.7	
gamma-BHC	ND	1.7	
delta-BHC	ND	1.7	
Heptachlor	ND	1.7	
Aldrin	ND	1.7	
Heptachlor epoxide	ND	1.7	
Endosulfan I	ND	1.7	
Dieldrin	ND	3.3	
4,4'-DDE	ND	3.3	
Endrin	ND	3.3	
Endosulfan II	ND	3.3	
Endosulfan sulfate	ND	3.3	
4,4'-DDD	ND	3.3	
Endrin aldehyde	ND	3.3	
4,4'-DDT	ND	3.3	
alpha-Chlordane	ND	1.7	
gamma-Chlordane	ND	1.7	
Methoxychlor	ND	17	
Toxaphene	ND	59	

Surrogate	%REC	Limits
TCMX	107	50-120
Decachlorobiphenyl	117	54-133



Organochlorine Pesticides								
Lab #:	196134	Location:	Hanson Radum					
Client:	LFR Levine Fricke	Prep:	EPA 3550B					
Project#:	001-09567-01	Analysis:	EPA 8081A					
Type:	LCS	Diln Fac:	1.000					
Lab ID:	QC397631	Batch#:	127545					
Matrix:	Soil	Prepared:	07/24/07					
Units:	ug/Kg	Analyzed:	07/25/07					
Basis:	as received							

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	13.20	8.652	66	42-120
Heptachlor	13.20	9.825	74	44-130
Aldrin	13.20	9.239	70	47-120
Dieldrin	26.40	22.53	85	50-121
Endrin	26.40	12.50	47	39-130
4,4'-DDT	26.40	24.31	92	45-127

Surrogate	%REC	Limits
TCMX	62	50-120
Decachlorobiphenyl	94	54-133



	Organochlorine Pesticides							
Lab #:	196134	Location:	Hanson Radum					
Client:	LFR Levine Fricke	Prep:	EPA 3550B					
Project#:	001-09567-01	Analysis:	EPA 8081A					
Field ID:	ZZZZZZZZZ	Batch#:	127545					
MSS Lab ID:	196124-006	Sampled:	07/20/07					
Matrix:	Soil	Received:	07/20/07					
Units:	ug/Kg	Prepared:	07/24/07					
Basis:	as received	Analyzed:	07/31/07					
Diln Fac:	1.000							

Type: Lab ID: MS QC397632 Cleanup Method: EPA 3620B

Analyte	MSS Result	Spiked	Result	%REC	Limits	
gamma-BHC	<0.3685	13.26	9.911	75	45-120	
Heptachlor	<0.4792	13.26	10.79	81	50-124	
Aldrin	<0.3149	13.26	10.52 #	79	47-122	
Dieldrin	<0.9902	26.52	22.46	85	47-122	
Endrin	<1.174	26.52	22.14 #	83	46-127	
4,4'-DDT	<1.265	26.52	23.60	89	27-136	

Surrogate	%REC	Limits
TCMX	87	50-120
Decachlorobiphenyl	128	54-133

Type: Lab ID: MSD QC397633 Cleanup Method: EPA 3620B

Analyte Spiked Result %REC Limits RPD Lim 13.32 11.74 88 45-120 16 39 gamma-BHC Heptachlor 13.32 12.61 50-124 95 15 37 Aldrin 13.32 12.18 # 47-122 91 14 35 Dieldrin 26.64 24.43 92 47-122 8 34 Endrin 26.64 28.32 # 106 46-127 24 37 4,4'-DDT 26.64 23.80 27-136 49 89 0

Surrogate	%REC	Limits
TCMX	92	50-120
Decachlorobiphenyl	104	54-133

#= CCV drift outside limits; average CCV drift within limits per method requirements RPD= Relative Percent Difference



	Рс	lychlo	orinated	Biphenyls (PC	Bs)
Lab #: Client: Project#:	196134 LFR Levine Fr 001-09567-01	icke		Location: Prep: Analysis:	Hanson Radum EPA 3550B EPA 8082
Matrix: Units: Basis: Diln Fac:	Soil ug/Kg as received 1.000			Batch#: Sampled: Received: Prepared:	127545 07/20/07 07/23/07 07/24/07
Field ID: Type: Lab ID:	SS-31(C)-5.5 SAMPLE 196134-003			Analyzed: Cleanup Method:	07/25/07 EPA 3665A
Anal	vte		Result	RL	
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260		NI NI NI NI NI))))	12 24 12 12 12 12 12 12 12	
Surro	gate	%REC	Limits		
TCMX Decachlorobiphe	nvl	107 106	63-141 50-158		
Field ID: Type: Lab ID:	SS-31(C)-10.5 SAMPLE 196134-004			Analyzed: Cleanup Method:	07/25/07 EPA 3665A
Anal	yte		Result	RL	
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260		NE NI NI NI NI NI)))	12 24 12 12 12 12 12 12	
Surro	gate	%REC	Limits		
TCMX Decachlorobiphe		115 121	63-141 50-158		
Field ID: Type: Lab ID:	SS-31(D)-5.5 SAMPLE 196134-013			Analyzed: Cleanup Method:	07/25/07 EPA 3665A
Anal Aroclor-1016	yte		Result	RL 12	
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260		NI NI NI NI NI NI)))	12 24 12 12 12 12 12 12	
Surro	gate	%REC	Limits		
TCMX Decachlorobiphe	nyl	119 117	63-141 50-158		

ND= Not Detected RL= Reporting Limit Page 1 of 2



	Po	olychlo	orinated	Biphenyls (PC	Bs)
Lab #: Client: Project#: Matrix:	196134 LFR Levine F 001-09567-01 Soil	ricke		Location: Prep: Analysis: Batch#:	Hanson Radum EPA 3550B EPA 8082 127545
Units: Basis: Diln Fac:	ug/Kg as received 1.000			Sampled: Received: Prepared:	07/20/07 07/23/07 07/24/07
Field ID: Type: Lab ID:	SS-31(D)-10.5 SAMPLE 196134-014			Analyzed: Cleanup Method:	07/25/07 EPA 3665A
Ana	lyte		Result	RL	
Aroclor-1016 Aroclor-1221 Aroclor-1232 Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260		ND ND ND ND ND ND		12 24 12 12 12 12 12 12 12	
	ogate	%REC	Limits		
TCMX Decachlorobiph	lenyl	116 124	63-141 50-158		
Type: Lab ID:	BLANK OC397627			Analyzed: Cleanup Method:	07/24/07 FDA 3665A

Lab ID:	QC397627		Cleanup Method:	EPA 3665A
	Analyte	Result	RL	
Aroclor-10	016	ND	12	
Aroclor-12	221	ND	24	
Aroclor-12	232	ND	12	
Aroclor-12	242	ND	12	
Aroclor-12	248	ND	12	
Aroclor-12	254	ND	12	
Aroclor-12	260	ND	12	

S	urrogate	%REC	Limits
TCMX		119	63-141
Decachlorob	iphenyl	128	50-158



	Polychlorinated	Biphenyls (PC	Bs)
Lab #:	196134	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 3550B
Project#:	001-09567-01	Analysis:	EPA 8082
Туре:	LCS	Diln Fac:	1.000
Lab ID:	QC397628	Batch#:	127545
Matrix:	Soil	Prepared:	07/24/07
Units:	ug/Kg	Analyzed:	07/24/07
Basis:	as received		

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	%REC	Limits
Aroclor-1232	164.3	188.8	115	68-138

Surrogate	%REC	Limits
TCMX	119	63-141
Decachlorobiphenyl	122	50-158



	Polychlorinated	Biphenyls (PC	Bs)
Lab #:	196134	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 3550B
Project#:	001-09567-01	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZ	Batch#:	127545
MSS Lab ID:	196124-006	Sampled:	07/20/07
Matrix:	Soil	Received:	07/20/07
Units:	ug/Kg	Prepared:	07/24/07
Basis:	as received	Analyzed:	07/24/07
Diln Fac:	1.000		

Type: Lab ID:

MS QC397629 Cleanup Method: EPA 3665A

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1232	<2.400	164.6	166.8	101	72-140

Surrogate	%REC	Limits
TCMX	109	63-141
Decachlorobiphenyl	108	50-158

Type: Lab ID:	MSD QC397630			Cleanup Method: EPA	3665A			
	Analyte		Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-123	32		166.6	179.9	108	72-140	б	27
S	Surrogate	%REC	Limits					
TCMX		113	63-141					
Decachlorob	oiphenyl	116	50-158					



California Title 26 Metals					
Lab #:	196134	Project#:	001-09567-01		
Client:	LFR Levine Fricke	Location:	Hanson Radum		
Field ID:	SS-31(C)-5.5	Diln Fac:	1.000		
Lab ID:	196134-003	Sampled:	07/20/07		
Matrix:	Soil	Received:	07/23/07		
Units:	mg/Kg	Analyzed:	07/25/07		
Basis:	as received				
Analyte	Result	RL Batch# Prepa	red Prep	Analysis	

Analyte	Result	RL	Batch# Prepared	Prep	Analysis
Antimony	ND	0.50	127580 07/24/07	EPA 3050B	EPA 6010B
Arsenic	7.3	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Barium	260	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Beryllium	0.41	0.10	127580 07/24/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Chromium	22	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Cobalt	8.2	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Copper	18	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Lead	5.2	0.15	127580 07/24/07	EPA 3050B	EPA 6010B
Mercury	0.089	0.020	127600 07/25/07	METHOD	EPA 7471A
Molybdenum	ND	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Nickel	28	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Selenium	ND	0.50	127580 07/24/07	EPA 3050B	EPA 6010B
Silver	ND	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Thallium	ND	0.50	127580 07/24/07	EPA 3050B	EPA 6010B
Vanadium	35	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Zinc	38	1.0	127580 07/24/07	EPA 3050B	EPA 6010B



California Title 26 Metals					
Lab #:	196134		Project#:	001-09567-01	
Client:	LFR Levine Fricke		Location:	Hanson Radum	
Field ID:	SS-31(C)-10.5		Diln Fac:	1.000	
Lab ID:	196134-004		Sampled:	07/20/07	
Matrix:	Soil		Received:	07/23/07	
Units:	mg/Kg		Analyzed:	07/25/07	
Basis:	as received				
Analyte	Result	RL	Batch# Prepared	Prep	Analysis
Antimony		0 5 0	127500 07/24/07		

Analyte	Result	RL	Batch# Prepared	Prep	Analysis
Antimony	ND	0.50	127580 07/24/07 EPA	3050B EI	PA 6010B
Arsenic	6.3	0.25	127580 07/24/07 EPA	3050B EI	PA 6010B
Barium	270	0.25	127580 07/24/07 EPA	3050B EI	PA 6010B
Beryllium	0.42	0.10	127580 07/24/07 EPA	3050B EI	PA 6010B
Cadmium	ND	0.25	127580 07/24/07 EPA	3050B EI	PA 6010B
Chromium	44	0.25	127580 07/24/07 EPA	3050B EI	PA 6010B
Cobalt	12	0.25	127580 07/24/07 EPA	3050B EI	PA 6010B
Copper	25	0.25	127580 07/24/07 EPA	3050B EI	PA 6010B
Lead	6.4	0.15	127580 07/24/07 EPA	3050B EI	PA 6010B
Mercury	0.091	0.020	127600 07/25/07 METH	HOD EI	PA 7471A
Molybdenum	ND	0.25	127580 07/24/07 EPA	3050B EI	PA 6010B
Nickel	71	0.25	127580 07/24/07 EPA	3050B EI	PA 6010B
Selenium	ND	0.50	127580 07/24/07 EPA	3050B EI	PA 6010B
Silver	ND	0.25	127580 07/24/07 EPA	3050B EI	PA 6010B
Thallium	ND	0.50	127580 07/24/07 EPA	3050B EI	PA 6010B
Vanadium	36	0.25	127580 07/24/07 EPA	3050B EI	PA 6010B
Zinc	45	1.0	127580 07/24/07 EPA	3050B E1	PA 6010B



California Title 26 Metals					
Lab #:	196134	Project#:	001-09567-01		
Client:	LFR Levine Fricke	Location:	Hanson Radum		
Field ID:	SS-31(D)-5.5	Diln Fac:	1.000		
Lab ID:	196134-013	Sampled:	07/20/07		
Matrix:	Soil	Received:	07/23/07		
Units:	mg/Kg	Analyzed:	07/25/07		
Basis:	as received				

Analyte	Result	RL	Batch# Prepared Prep Analysis
Antimony	ND	0.50	127580 07/24/07 EPA 3050B EPA 6010B
Arsenic	5.0	0.25	127580 07/24/07 EPA 3050B EPA 6010B
Barium	270	0.25	127580 07/24/07 EPA 3050B EPA 6010B
Beryllium	0.39	0.10	127580 07/24/07 EPA 3050B EPA 6010B
Cadmium	ND	0.25	127580 07/24/07 EPA 3050B EPA 6010B
Chromium	39	0.25	127580 07/24/07 EPA 3050B EPA 6010B
Cobalt	9.7	0.25	127580 07/24/07 EPA 3050B EPA 6010B
Copper	22	0.25	127580 07/24/07 EPA 3050B EPA 6010B
Lead	4.6	0.15	127580 07/24/07 EPA 3050B EPA 6010B
Mercury	0.058	0.020	127600 07/25/07 METHOD EPA 7471A
Molybdenum	ND	0.25	127580 07/24/07 EPA 3050B EPA 6010B
Nickel	63	0.25	127580 07/24/07 EPA 3050B EPA 6010B
Selenium	ND	0.50	127580 07/24/07 EPA 3050B EPA 6010B
Silver	ND	0.25	127580 07/24/07 EPA 3050B EPA 6010B
Thallium	ND	0.50	127580 07/24/07 EPA 3050B EPA 6010B
Vanadium	30	0.25	127580 07/24/07 EPA 3050B EPA 6010B
Zinc	38	1.0	127580 07/24/07 EPA 3050B EPA 6010B



	Califor	nia Title 26 Metals	
Lab #:	196134	Project#:	001-09567-01
Client:	LFR Levine Fricke	Location:	Hanson Radum
Field ID:	SS-31(D)-10.5	Diln Fac:	1.000
Lab ID:	196134-014	Sampled:	07/20/07
Matrix:	Soil	Received:	07/23/07
Units:	mg/Kg	Analyzed:	07/25/07
Basis:	as received		
Analyte	Result	RL Batch# Prepared	Prep Analysis

Analyte	Result	RL	Batch# Prepared	Prep	Analysis
Antimony	ND	0.50	127580 07/24/07	EPA 3050B	EPA 6010B
Arsenic	6.0	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Barium	330	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Beryllium	0.44	0.10	127580 07/24/07	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Chromium	38	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Cobalt	11	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Copper	25	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Lead	6.6	0.15	127580 07/24/07	EPA 3050B	EPA 6010B
Mercury	0.087	0.020	127600 07/25/07	METHOD	EPA 7471A
Molybdenum	ND	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Nickel	57	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Selenium	ND	0.50	127580 07/24/07	EPA 3050B	EPA 6010B
Silver	ND	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Thallium	ND	0.50	127580 07/24/07	EPA 3050B	EPA 6010B
Vanadium	36	0.25	127580 07/24/07	EPA 3050B	EPA 6010B
Zinc	45	1.0	127580 07/24/07	EPA 3050B	EPA 6010B



California Title 26 Metals				
Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 3050B	
Project#:	001-09567-01	Analysis:	EPA 6010B	
Type:	BLANK	Diln Fac:	1.000	
Lab ID:	QC397759	Batch#:	127580	
Matrix:	Soil	Prepared:	07/24/07	
Units:	mg/Kg	Analyzed:	07/25/07	
Basis:	as received			

Analyte	Result	RL	
Antimony	ND	0.50	
Arsenic	ND	0.25	
Barium	ND	0.25	
Beryllium	ND	0.10	
Cadmium	ND	0.25	
Chromium	ND	0.25	
Cobalt	ND	0.25	
Copper	ND	0.25	
Lead	ND	0.15	
Molybdenum	ND	0.25	
Nickel	ND	0.25	
Selenium	ND	0.50	
Silver	ND	0.25	
Thallium	ND	0.50	
Vanadium	ND	0.25	
Zinc	ND	1.0	



	Californ	nia Title 26 Meta	ls	
Lab #: Client: Project#:	196134 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 3050B EPA 6010B	
Matrix: Units: Basis: Diln Fac:	Soil mg/Kg as received 1.000	Batch#: Prepared: Analyzed:	127580 07/24/07 07/25/07	

Type: BS	Lab ID:	QC3977	60	
Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	97.85	98	80-120
Arsenic	50.00	48.81	98	80-120
Barium	100.0	98.96	99	80-120
Beryllium	2.500	2.394	96	80-120
Cadmium	10.00	10.08	101	80-120
Chromium	100.0	96.09	96	80-120
Cobalt	25.00	23.47	94	80-120
Copper	12.50	11.79	94	80-120
Lead	100.0	95.17	95	80-120
Molybdenum	20.00	20.34	102	80-120
Nickel	25.00	23.56	94	80-120
Selenium	50.00	48.95	98	80-120
Silver	10.00	9.538	95	80-120
Thallium	50.00	47.17	94	80-120
Vanadium	25.00	24.24	97	80-120
Zinc	25.00	24.42	98	80-120

Type:	BSD	Lab ID:	QC397	761			
	Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony		100.0	98.74	99	80-120	1	20
Arsenic		50.00	48.42	97	80-120	1	20
Barium		100.0	100.1	100	80-120	1	20
Beryllium		2.500	2.424	97	80-120	1	20
Cadmium		10.00	10.16	102	80-120	1	20
Chromium		100.0	97.18	97	80-120	1	20
Cobalt		25.00	23.76	95	80-120	1	20
Copper		12.50	11.91	95	80-120	1	20
Lead		100.0	96.75	97	80-120	2	20
Molybdenum		20.00	20.77	104	80-120	2	20
Nicĥel		25.00	23.85	95	80-120	1	20
Selenium		50.00	50.20	100	80-120	3	20
Silver		10.00	9.695	97	80-120	2	20
Thallium		50.00	47.65	95	80-120	1	20
Vanadium		25.00	24.51	98	80-120	1	20
Zinc		25.00	24.47	98	80-120	0	20



	California Title 26 Metals				
Lab #:	196134	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3050B		
Project#:	001-09567-01	Analysis:	EPA 6010B		
Field ID:	ZZZZZZZZZZ	Batch#:	127580		
MSS Lab ID:	196147-001	Sampled:	07/20/07		
Matrix:	Soil	Received:	07/23/07		
Units:	mg/Kg	Prepared:	07/24/07		
Basis:	as received	Analyzed:	07/25/07		
Diln Fac:	1.000	-			

Type:	MS	Lab ID:	QC397762		
Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.1763	93.46	45.95	49	1-129
Arsenic	1.998	46.73	47.18	97	72-120
Barium	65.70	93.46	159.8	101	49-138
Beryllium	0.3264	2.336	2.535	95	80-120
Cadmium	<0.02395	9.346	8.852	95	72-120
Chromium	7.338	93.46	93.65	92	63-122
Cobalt	3.009	23.36	24.04	90	61-120
Copper	5.529	11.68	16.58	95	59-137
Lead	2.300	93.46	85.55	89	55-122
Molybdenum	0.1733	18.69	17.88	95	66-120
Nickel	2.666	23.36	23.53	89	45-139
Selenium	<0.04713	46.73	44.67	96	73-120
Silver	<0.05716	9.346	8.830	94	53-120
Thallium	<0.08561	46.73	40.58	87	64-120
Vanadium	33.31	23.36	55.69	96	55-139
Zinc	17.77	23.36	40.34	97	49-140

Type: MSD	Lab ID:	QC397	763			
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	93.46	45.87	49	1-129	0	23
Arsenic	46.73	49.36	101	72-120	5	20
Barium	93.46	168.8	110	49-138	6	23
Beryllium	2.336	2.627	98	80-120	4	20
Cadmium	9.346	9.195	98	72-120	4	20
Chromium	93.46	96.55	95	63-122	3	20
Cobalt	23.36	25.17	95	61-120	5	23
Copper	11.68	17.61	103	59-137	6	20
Lead	93.46	89.51	93	55-122	5	26
Molybdenum	18.69	18.60	99	66-120	4	20
Nickel	23.36	24.95	95	45-139	6	26
Selenium	46.73	43.31	93	73-120	3	20
Silver	9.346	9.048	97	53-120	2	22
Thallium	46.73	41.92	90	64-120	3	20
Vanadium	23.36	58.60	108	55-139	5	20
Zinc	23.36	43.34	109	49-140	7	23



Lab #:	196134	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	METHOD	
Project#:	001-09567-01	Analysis:	EPA 7471A	
Analyte:	Mercury	Basis:	as received	
Type:	BLANK	Diln Fac:	1.000	
Lab ID:	QC397831	Batch#:	127600	
Matrix:	Soil	Prepared:	07/25/07	
Units:	mg/Kg	Analyzed:	07/25/07	

Result	RL	
ND	0.020	

ND= Not Detected RL= Reporting Limit Page 1 of 1



California Title 26 Metals					
Lab #:	196134	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	METHOD		
Project#:	001-09567-01	Analysis:	EPA 7471A		
Analyte:	Mercury	Diln Fac:	1.000		
Matrix:	Soil	Batch#:	127600		
Units:	mg/Kg	Prepared:	07/25/07		
Basis:	as received	Analyzed:	07/25/07		

Туре	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC397832	0.5000	0.4540	91	80-120		
BSD	QC397833	0.5000	0.4240	85	80-120	7	20



QC397836

MSD

California Title 26 Metals							
Lab #:	196134	Location:	Hans	on Radum	1		
Client:	LFR Levine Fricke	Prep:	METH	OD			
Project#:	001-09567-01	Analysis:	EPA	7471A			
Analyte:	Mercury	Diln Fac:	1.00	0			
Field ID:	ZZZZZZZZZ	Batch#:	1276	00			
MSS Lab ID:	196123-001	Sampled:	07/2	0/07			
Matrix:	Soil	Received:	07/2	0/07			
Units:	mg/Kg	Prepared:	07/2	5/07			
Basis:	as received	Analyzed:	07/2	5/07			
Type Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS QC397835	0.08440	0.4808	0.5990	107	67-143		

0.4717

0.4774

83

23

67-143 21



LFR Levine Fricke 1900 Powell Street Emeryville, CA 94608	Project : 001-09567-01 Location : Hanson Radum Level : II	
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<u>Sample ID</u>	<u>Lab ID</u>
SS-31(D)-GGW	196163-001
SS-123(F1)-GGW	196163-002
SS-31(D)-25	196163-003
SS-31(D)-30	196163-004
SS-31(D)-40	196163-005
SS-31(D)-50.5	196163-006
SS-31(D)-60.5	196163-007
SS-123(F1)-5.5	196163-008
SS-123(F1)-15.5	196163-009
SS-123(F2)-6	196163-010
SS-123(F2)-11.5	196163-011
SS-123(F2)-16.5	196163-012

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: Project Manager Signature:

Operations Manager

Date: 07/30/2007

Date: 07/30/2007

NELAP # 01107CA

Page 1 of ____



CASE NARRATIVE

Laboratory number:196163Client:LFR Levine FrickeProject:001-09567-01Location:Hanson RadumRequest Date:07/23/07Samples Received:07/23/07

This hardcopy data package contains sample and QC results for nine soil samples and two water samples, requested for the above referenced project on 07/23/07. The samples were received cold and intact. All data were e-mailed to Katrin Schliewen on 07/26/07.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Water:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:

High RPD was observed for diesel C10-C24 in the MS/MSD of SS-31(D)-50.5 (lab # 196163-006). No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Water:

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B) Soil:

No analytical problems were encountered.



	Total	Volatil	le Hydrocar	bons	
Lab #: 1961	63		Location:	Hanson Radum	1
Client: LFR	Levine Fricke		Prep:	EPA 5030B	
Project#: 001-	09567-01		Analysis:	EPA 8015B	
Matrix: Soil			Batch#:	127568	
Units: mg/K	a		Sampled:	07/23/07	
5.	eceived		Received:	07/23/07	
Diln Fac: 1.00			Analyzed:	07/24/07	
			-		
	(D)-25		Lab ID:	196163-003	
Type: SAMPL	Ε				
Analyte		Result		RL	
Gasoline C7-C12	NI)		1.0	
Surrogate	%REC	Limits			
Trifluorotoluene (FID	-	70-132			
Bromofluorobenzene (F	ID) 102	66-138			
Field ID: SS-31 Type: SAMPL	(D)-30 E		Lab ID:	196163-004	
Analyte		Result		RL	
Gasoline C7-C12	NI)		0.99	
aurea act a	8-DEC	Limits			
Surrogate Trifluorotoluene (FID) 101	70-132			
-					
Bromofluorobenzene (F	10) 107	66-138			
Field ID: SS-31	(D)-40		Lab ID:	196163-005	
Type: SAMPL	Ε				
Analyte		Result		RL	
Gasoline C7-C12	NI)		1.0	
Surrogate	%REC	Limits			
Trifluorotoluene (FID) 107	70-132			
Bromofluorobenzene (F		66-138			
`					



		Total	Volatil	.e Hydrocarb	ons	
		TOCAL				
Lab #:	196163			Location:	Hanson Radum	
Client:	LFR Levine Fr	icke		Prep:	EPA 5030B	
Project#:	001-09567-01			Analysis:	EPA 8015B	
Matrix:	Soil			Batch#:	127568	
Units:	mg/Kg			Sampled:	07/23/07	
Basis:	as received			Received:	07/23/07	
Diln Fac:	1.000			Analyzed:	07/24/07	
Field ID:	SS-31(D)-50.5			Lab ID:	196163-006	
Type:	SAMPLE					
	nalyte		Result		RL	
Gasoline C7-C	212	ND)		0.95	
		A = = a				
	rrogate	%REC	Limits 70-132			
Trifluorotolu Bromofluorobe		99 104	70-132 66-138			
	· · ·					
Field ID: Type:	SS-31(D)-60.5 SAMPLE			Lab ID:	196163-007	
Туре:			Result		196163-007 RL	
Туре:	SAMPLE	NĽ				
Type: Ar Gasoline C7-C	SAMPLE malyte	ND)		RL	
Type: Ar Gasoline C7-C	SAMPLE malyte C12 rrogate	ND %REC	Limits		RL	
Type: Gasoline C7-C	SAMPLE malyte C12 rrogate Lene (FID)	ND %REC 102	Limits 70-132		RL	
Type: Ar Gasoline C7-C	SAMPLE malyte C12 rrogate Lene (FID)	ND %REC	Limits		RL	
Type: Gasoline C7-C	SAMPLE malyte C12 rrogate Lene (FID)	ND %REC 102	Limits 70-132		RL	
Type: Type: Gasoline C7-C Sur Trifluorotolu Bromofluorobe Type:	SAMPLE nalyte C12 rrogate Lene (FID) enzene (FID) BLANK	NE %REC 102 104	Limits 70-132 66-138	Lab ID:	RL 1.0 QC397711	
Type: Type: Gasoline C7-C Sur Trifluorotolu Bromofluorobe Type:	SAMPLE nalyte C12 rrogate Lene (FID) enzene (FID) BLANK halyte	NE %REC 102 104	Limits 70-132 66-138 Result	Lab ID:	RL 1.0	
Type: Type: Gasoline C7-C Sur Trifluorotolu Bromofluorobe Type: Ar Gasoline C7-C	SAMPLE nalyte Cl2 rrogate Lene (FID) enzene (FID) BLANK BLANK nalyte Cl2	NE %REC 102 104 NE	Limits 70-132 66-138 Result	Lab ID:	RL 1.0 QC397711 RL	
Type: Type: Gasoline C7-C Sur Trifluorotolu Bromofluorobe Type: Ar Gasoline C7-C Sur	SAMPLE nalyte Cl2 rrogate Lene (FID) enzene (FID) BLANK balyte Cl2 rrogate	ND %REC 102 104 ND %REC	Limits 70-132 66-138 Result	Lab ID:	RL 1.0 QC397711 RL	
Type: Type: Gasoline C7-C Sur Trifluorotolu Bromofluorobe Type: Ar Gasoline C7-C	SAMPLE nalyte C12 rrogate Lene (FID) enzene (FID) BLANK nalyte C12 rrogate Lene (FID)	NE %REC 102 104 NE	Limits 70-132 66-138 Result	Lab ID:	RL 1.0 QC397711 RL	



Total Volatile Hydrocarbons						
Lab #:	196163	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 5030B			
Project#:	001-09567-01	Analysis:	EPA 8015B			
Туре:	LCS	Basis:	as received			
Lab ID:	QC397712	Diln Fac:	1.000			
Matrix:	Soil	Batch#:	127568			
Units:	mg/Kg	Analyzed:	07/24/07			

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.959	100	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	70-132
Bromofluorobenzene (FID)	101	66-138



Total Volatile Hydrocarbons					
Lab #:	196163	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 5030B		
Project#:	001-09567-01	Analysis:	EPA 8015B		
Field ID:	SS-31(D)-25	Diln Fac:	1.000		
MSS Lab ID:	196163-003	Batch#:	127568		
Matrix:	Soil	Sampled:	07/23/07		
Units:	mg/Kg	Received:	07/23/07		
Basis:	as received	Analyzed:	07/24/07		

Туре:	MS			Lab ID:	Q	C397713		
	Analyte	MSS Result		Spiked		Result	%REC	Limits
Gasoline	C7-C12	0	.09166	9	.901	9.881	99	36-120
	Surrogate	%REC	Limits					
Trifluoro	toluene (FID)	114	70-132					
Bromofluo	robenzene (FID)	112	66-138					
Туре:	MSD			Lab ID:	Q	C397714		
	Analyte		Spiked		Result	%REC	Limits	RPD Lim
Gasoline	C7-C12		10.20		10.22	99	36-120	0 29
	Surrogate	%REC	Limits					

Surrogate	%REC	Limits	
Trifluorotoluene (FID)	107	70-132	
Bromofluorobenzene (FID)	107	66-138	



Total Extrac	ctable Hydrocarbons
Lab #: 196163	Location: Hanson Radum
Client: LFR Levine Fricke	Prep: EPA 3520C
Project#: 001-09567-01	Analysis: EPA 8015B
Matrix: Water	Sampled: 07/23/07
Units: ug/L	Received: 07/23/07
Diln Fac: 1.000	Prepared: 07/24/07
Batch#: 127571	Analyzed: 07/25/07
Field ID: SS-31(D)-GGW	Lab ID: 196163-001
Type: SAMPLE	Cleanup Method: EPA 3630C
Analyte Result	t RL
Diesel C10-C24 ND	50
Motor Oil C24-C36 ND	300
Surrogate%RECLimitHexacosane8961-13	
Field ID: SS-123(F1)-GGW Type: SAMPLE	Lab ID: 196163-002 Cleanup Method: EPA 3630C
Analyte Result	t RL
Diesel C10-C24 ND	50
Motor Oil C24-C36 ND	300
Surrogate %REC Limit	ts
Hexacosane 101 61-13	34
Type: BLANK Lab ID: QC397725	Cleanup Method: EPA 3630C
Lab ID: QC397725	
Lab ID: QC397725 Analyte Result	t RL
Lab ID: QC397725 Analyte Result Diesel C10-C24 ND	t RL 50 300



	1	otal 1	Extracta	ble Hydrocarbo	ns			
Lab #:	196163			Location:	Hanson Radum			
Client:	LFR Levine Fr	ricke		Prep:	EPA 3520C			
Project#:	001-09567-01			Analysis:	EPA 8015B			
Matrix:	Water			Batch#:	127571			
Units:	ug/L			Prepared:	07/24/07			
Diln Fac:	1.000			Analyzed:	07/25/07			
Type: Lab ID:	BS QC397726			Cleanup Method:	EPA 3630C			
	Analyte		Spiked	Result	%REC	Limits		
Diesel C10-	C24		2,500	2,330	93	58-130		
S	urrogate	%REC	Limits					
Hexacosane		99	61-134					
Type: Lab ID:	BSD QC397727			Cleanup Method:	EPA 3630C			
	Analyte		Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-	C24		2,500	2,389	96	58-130	3	27
S	urrogate	%REC	Limits					
Hexacosane		100	61-134					



	Т	otal I	Extracta	ble Hydrocarbo	ns
Lab #:	196163			Location:	Hanson Radum
Client:	LFR Levine Fr	icke		Prep:	SHAKER TABLE
Project#: Matrix:	<u>001-09567-01</u> Soil			Analysis: Sampled:	EPA 8015B 07/23/07
Units:	mg/Kg			Received:	07/23/07
Basis:	as received			Prepared:	07/24/07
Batch#:	127577			Analyzed:	07/25/07
					1 000
Field ID: Type:	SS-31(D)-25 SAMPLE			Diln Fac: Cleanup Method:	1.000 FDA 3630C
Lab ID:	196163-003			erealing Meenou!	EIA SUSUE
1000 10	190100 000				
	alyte		Result	RL	
Diesel C10-C24		NE			99
Motor Oil C24	-036	ND)	5.	0
Sur	rogate	%REC	Limits		
Hexacosane		85	40-127		
Field ID:	SS-31(D)-30			Diln Fac:	
Type:	SAMPLE			Cleanup Method:	EPA 3630C
Lab ID:	196163-004				
۵n:	alyte		Result	RL	
Diesel C10-C2		NE		1.	0
Motor Oil C24		NE		5.	
-					
Sur	rogate	%REC	Limits		
Hexacosane		74	40-127		
Hexacosane					
Hexacosane Field ID:	SS-31(D)-40			Diln Fac:	1.000
Hexacosane Field ID: Type:	SS-31(D)-40 SAMPLE			Diln Fac: Cleanup Method:	1.000 EPA 3630C
Hexacosane Field ID:	SS-31(D)-40			Diln Fac: Cleanup Method:	1.000 EPA 3630C
Hexacosane Field ID: Type: Lab ID:	SS-31(D)-40 SAMPLE	74	40-127	Diln Fac: Cleanup Method: RL	1.000 EPA 3630C
Hexacosane Field ID: Type: Lab ID: Diesel C10-C2	SS-31(D)-40 SAMPLE 196163-005 alyte 4	74 	40-127	Cleanup Method: RL 1.	EPA 3630C
Hexacosane Field ID: Type: Lab ID: Ana	SS-31(D)-40 SAMPLE 196163-005 alyte 4	74	40-127	Cleanup Method:	EPA 3630C
Hexacosane Field ID: Type: Lab ID: Diesel C10-C2 Motor Oil C24	SS-31(D)-40 SAMPLE 196163-005 alyte 4 -C36	74 NE NE	40-127	Cleanup Method: RL 1.	EPA 3630C
Hexacosane Field ID: Type: Lab ID: Diesel C10-C2 Motor Oil C24	SS-31(D)-40 SAMPLE 196163-005 alyte 4	74 	40-127	Cleanup Method: RL 1.	EPA 3630C
Hexacosane Field ID: Type: Lab ID: Diesel C10-C2 Motor Oil C24	SS-31(D)-40 SAMPLE 196163-005 alyte 4 -C36	74 NE NE	40-127 Result	Cleanup Method: RL 1.	EPA 3630C
Hexacosane Field ID: Type: Lab ID: Diesel C10-C2 Motor Oil C24	SS-31(D)-40 SAMPLE 196163-005 alyte 4 -C36	74 NE NE	40-127 Result	Cleanup Method: RL 1.	EPA 3630C
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24 Hexacosane	SS-31(D)-40 SAMPLE 196163-005 alyte 4 -C36 rogate	74 NE NE	40-127 Result	Cleanup Method: RL 1. 5.	EPA 3630C
Hexacosane Field ID: Type: Lab ID: Motor Oil C24: Motor Oil C24: Field ID:	SS-31(D)-40 SAMPLE 196163-005 alyte 4 -C36 rogate SS-31(D)-50.5	74 NE NE	40-127 Result	Cleanup Method: RL 1. 5. Diln Fac:	EPA 3630C
Hexacosane Field ID: Type: Lab ID: Motor Oil C24: Motor Oil C24: Hexacosane Field ID: Type:	SS-31(D)-40 SAMPLE 196163-005 alyte 4 -C36 rogate SS-31(D)-50.5 SAMPLE	74 NE NE	40-127 Result	Cleanup Method: RL 1. 5.	EPA 3630C
Hexacosane Field ID: Type: Lab ID: Motor Oil C24: Motor Oil C24: Field ID:	SS-31(D)-40 SAMPLE 196163-005 alyte 4 -C36 rogate SS-31(D)-50.5	74 NE NE	40-127 Result	Cleanup Method: RL 1. 5. Diln Fac:	EPA 3630C
Hexacosane Field ID: Type: Lab ID: Motor Oil C24: Motor Oil C24: Field ID: Type: Lab ID: Ana	SS-31(D)-40 SAMPLE 196163-005 alyte 4 -C36 rogate SS-31(D)-50.5 SAMPLE 196163-006 alyte	74 NI NI 8REC 77	40-127 Result Limits 40-127 Result	Cleanup Method: RL 1. 5. Diln Fac: Cleanup Method: RL	EPA 3630C 0 0 1.000 EPA 3630C
Hexacosane Field ID: Type: Lab ID: Diesel C10-C2: Motor Oil C24: Motor Oil C24: Field ID: Type: Lab ID: Diesel C10-C2: Ana Diesel C10-C2:	SS-31(D)-40 SAMPLE 196163-005 alyte 4 -C36 rogate SS-31(D)-50.5 SAMPLE 196163-006 alyte 4	74 NL NE 77 NE	40-127 Result Limits 40-127 Result	Cleanup Method: RL 1. 5. Diln Fac: Cleanup Method: RL 1.	EPA 3630C 0 0 1.000 EPA 3630C
Hexacosane Field ID: Type: Lab ID: Motor Oil C24: Motor Oil C24: Hexacosane Field ID: Type: Lab ID: Ana	SS-31(D)-40 SAMPLE 196163-005 alyte 4 -C36 rogate SS-31(D)-50.5 SAMPLE 196163-006 alyte 4	74 NI NI 8REC 77	40-127 Result Limits 40-127 Result	Cleanup Method: RL 1. 5. Diln Fac: Cleanup Method: RL	EPA 3630C 0 0 1.000 EPA 3630C
Hexacosane Field ID: Type: Lab ID: Motor Oil C24: Motor Oil C24: Field ID: Type: Lab ID: Diesel C10-C2: Motor Oil C24:	SS-31(D)-40 SAMPLE 196163-005 alyte 4 -C36 rogate SS-31(D)-50.5 SAMPLE 196163-006 alyte 4 -C36	74 NE NE 77	40-127 Result 0 Limits 40-127 Result	Cleanup Method: RL 1. 5. Diln Fac: Cleanup Method: RL 1.	EPA 3630C 0 0 1.000 EPA 3630C
Hexacosane Field ID: Type: Lab ID: Motor Oil C24: Motor Oil C24: Field ID: Type: Lab ID: Diesel C10-C2: Motor Oil C24: Motor Oil C24:	SS-31(D)-40 SAMPLE 196163-005 alyte 4 -C36 rogate SS-31(D)-50.5 SAMPLE 196163-006 alyte 4	74 NL NE 77 NE	40-127 Result 0 Limits 40-127 Result	Cleanup Method: RL 1. 5. Diln Fac: Cleanup Method: RL 1.	EPA 3630C 0 0 1.000 EPA 3630C
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24 Field ID: Type: Lab ID: Diesel C10-C2 Motor Oil C24 Surr Ana Diesel C10-C2 Motor Oil C24	SS-31(D)-40 SAMPLE 196163-005 alyte 4 -C36 rogate SS-31(D)-50.5 SAMPLE 196163-006 alyte 4 -C36	74 NE NE 77 77 NE NE	40-127 Result 0 Limits 40-127 Result 0 Limits	Cleanup Method: RL 1. 5. Diln Fac: Cleanup Method: RL 1.	EPA 3630C 0 0 1.000 EPA 3630C
Hexacosane Field ID: Type: Lab ID: Diesel C10-C2: Motor Oil C24: Motor Oil C24: Field ID: Type: Lab ID: Diesel C10-C2: Motor Oil C24: Motor Oil C24: Motor Oil C24: Hexacosane	SS-31(D)-40 SAMPLE 196163-005 alyte 4 -C36 rogate SS-31(D)-50.5 SAMPLE 196163-006 alyte 4 -C36 rogate	74 NI NE %REC 77 NE NE NE NE 77	40-127 Result 0 Limits 40-127 Result 0 Limits 40-127	Cleanup Method: RL 1. 5. Diln Fac: Cleanup Method: RL 1. 5.	EPA 3630C 0 0 1.000 EPA 3630C
Hexacosane Field ID: Type: Lab ID: Motor Oil C24 Motor Oil C24 Field ID: Type: Lab ID: Type: Lab ID: Motor Oil C24 Motor Oil C24 Motor Oil C24 Motor Oil C24 Hexacosane H= Heavier hyde	SS-31(D)-40 SAMPLE 196163-005 alyte 4 -C36 rogate SS-31(D)-50.5 SAMPLE 196163-006 alyte 4 -C36 rogate drocarbons contri	74 NL NE %REC 77 NL NE NE 77 27 27 20 27	40-127 Result 1 1 1 1 1 1 1 1 1 1 1 1 1	Cleanup Method: RL 1. 5. Diln Fac: Cleanup Method: RL 1. 5. Antitation	EPA 3630C 0 0 1.000 EPA 3630C
Hexacosane Field ID: Type: Lab ID: Motor Oil C24: Motor Oil C24: Field ID: Type: Lab ID: Diesel C10-C2: Motor Oil C24: Motor Oil C24: Motor Oil C24: Hexacosane H= Heavier hydrighter hydrol hyd	SS-31(D)-40 SAMPLE 196163-005 alyte 4 -C36 rogate SS-31(D)-50.5 SAMPLE 196163-006 alyte 4 -C36 rogate drocarbons contri drocarbons contri	74 NE NE 77 77 %REC 77 %REC 77 buted t	40-127 Result 0 Limits 40-127 A0-127 Limits 40-127 	Cleanup Method: RL 1. 5. Diln Fac: Cleanup Method: RL 1. 5. Antitation	EPA 3630C 0 0 1.000 EPA 3630C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

DO= Diluted Out ND= Not Detected RL= Reporting Limit Page 1 of 3



	Tot	al Extracta	ble Hydrocarbo	ns
Lab #: Client: Project#:	196163 LFR Levine Fric 001-09567-01	se	Location: Prep: Analysis:	Hanson Radum SHAKER TABLE EPA 8015B
Matrix: Units: Basis: Datab#:	Soil mg/Kg as received 127577		Sampled: Received: Prepared:	07/23/07 07/23/07 07/24/07
Batch#:	12/5//		Analyzed:	07/25/07
Field ID: Type: Lab ID:	SS-31(D)-60.5 SAMPLE 196163-007		Diln Fac: Cleanup Method:	1.000 EPA 3630C
Ana	lyte	Result	RL	
Diesel C10-C24		ND	0.	99
Motor Oil C24-0	236	ND	5.	0
Surro	ogate	REC Limits		
Hexacosane	9:			
Field ID: Type: Lab ID:	SS-123(F1)-5.5 SAMPLE 196163-008		Diln Fac: Cleanup Method:	1.000 EPA 3630C
Anal	lyte	Result	RL	
Diesel C10-C24		14 H Y		
Motor Oil C24-0	.30	46 H I	5.	0
Surro	ogate (
		REC Limits		
Hexacosane	79 222			
			Diln Fac: Cleanup Method:	1.000 EPA 3630C
Hexacosane Field ID: Type: Lab ID: Ana	7: SS-123(F1)-15.5 SAMPLE 196163-009			
Hexacosane Field ID: Type: Lab ID: Ana Diesel C10-C24	7: SS-123(F1)-15.5 SAMPLE 196163-009 L yte	9 40-127 Result 20 H Y	Cleanup Method: RL 0.	EPA 3630C
Hexacosane Field ID: Type: Lab ID: Ana	7: SS-123(F1)-15.5 SAMPLE 196163-009 L yte	9 40-127 Result	Cleanup Method: RL 0.	EPA 3630C
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24	7: SS-123(F1)-15.5 SAMPLE 196163-009 L yte C36	9 40-127 Result 20 H Y	Cleanup Method: RL 0.	EPA 3630C
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-C	7: SS-123(F1)-15.5 SAMPLE 196163-009 L yte C36	9 40-127 Result 20 H Y 110 H I %REC Limits	Cleanup Method: RL 0.	EPA 3630C
Hexacosane Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-C	7: SS-123(F1)-15.5 SAMPLE 196163-009 Lyte C36 Sgate	9 40-127 Result 20 H Y 110 H I %REC Limits	Cleanup Method: RL 0.	EPA 3630C 99 0 10.00
Hexacosane Field ID: Type: Lab ID: Motor Oil C24-0 Motor Oil C24-0 Field ID: Type: Lab ID: Anal	7: SS-123(F1)-15.5 SAMPLE 196163-009 Lyte C36 SS-123(F2)-6 SAMPLE 196163-010	Result 20 H Y 110 H I %REC Limits 40-127	Cleanup Method: RL 0. 5. Diln Fac: Cleanup Method: RL	EPA 3630C 99 0 10.00 EPA 3630C
Hexacosane Field ID: Type: Lab ID:	7: SS-123(F1)-15.5 SAMPLE 196163-009 Lyte 236 9: SS-123(F2)-6 SAMPLE 196163-010 Lyte	Result 20 H Y 110 H I %REC Limits 5 40-127	Cleanup Method: RL 0. 5. Diln Fac: Cleanup Method: RL 9.	EPA 3630C 99 0 10.00 EPA 3630C
Hexacosane Field ID: Type: Lab ID: Mathematical Surrows Field ID: Type: Lab ID: Anal	7: SS-123(F1)-15.5 SAMPLE 196163-009 Lyte 236 9: SS-123(F2)-6 SAMPLE 196163-010 Lyte	Result 20 H Y 110 H I %REC Limits 40-127	Cleanup Method: RL 0. 5. Diln Fac: Cleanup Method: RL 9.	EPA 3630C 99 0 10.00 EPA 3630C
Hexacosane Field ID: Type: Lab ID: Motor Oil C24-0 Field ID: Type: Lab ID: Type: Lab ID: Motor Oil C24-0 Motor Oil C24-0	7: SS-123(F1)-15.5 SAMPLE 196163-009 Lyte 236 SS-123(F2)-6 SAMPLE 196163-010 Lyte 236	Result 20 H Y 110 H I & Result 5 40-127 Result 5 40-127 \$40-127 \$6 40-127 \$6 40-127 \$6 40-127	Cleanup Method: RL 0. 5. Diln Fac: Cleanup Method: RL 9.	EPA 3630C 99 0 10.00 EPA 3630C
Hexacosane Field ID: Type: Lab ID: Motor Oil C24-0 Field ID: Type: Lab ID: Type: Lab ID: Motor Oil C24-0 Field ID: Type: Lab ID: Mainter Surrow Hexacosane	7: SS-123(F1)-15.5 SAMPLE 196163-009 Lyte 236 SS-123(F2)-6 SAMPLE 196163-010 Lyte 236	Result 20 H Y 110 H I & Result 5 40-127 Result 5 40-127 \$REC Limits 5 40-127 \$KREC Limits 5 40-127	Cleanup Method: RL 0. 5. Diln Fac: Cleanup Method: RL 9.	EPA 3630C 99 0 10.00 EPA 3630C

L= Lighter hydrocarbons contributed to the quantitation L= Lighter hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard DO= Diluted Out ND= Not Detected DL= Detected

RL= Reporting Limit

Page 2 of 3



	Total	Extracta	ble Hydrocarbo	ns
Lab #: Client: Project#: Matrix: Units: Basis: Batch#:	196163 LFR Levine Fricke 001-09567-01 Soil mg/Kg as received 127577		Location: Prep: Analysis: Sampled: Received: Prepared: Analyzed:	Hanson Radum SHAKER TABLE EPA 8015B 07/23/07 07/23/07 07/24/07 07/25/07
Field ID: Type: Lab ID:	SS-123(F2)-11.5 SAMPLE 196163-011		Diln Fac: Cleanup Method:	5 000
Anal	lyte	Result	RL	A
Diesel C10-C24 Motor Oil C24-C	236	35 H Y 290 H I		0
Surro	gate %RE(C Limits		
Hexacosane	82	40-127		
Type: Lab ID:	BLANK QC397747		Diln Fac: Cleanup Method:	1.000 EPA 3630C
Anal Diesel C10-C24		Result	RL	0
Motor Oil C24-C		1D 1D	1. 5.	
Surro Hexacosane	ogate %REC	C Limits 40-127		
HEACUSAILE	/3	H0-T71		



Total Extractable Hydrocarbons					
Lab #:	196163	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	SHAKER TABLE		
Project#:	001-09567-01	Analysis:	EPA 8015B		
Туре:	LCS	Diln Fac:	1.000		
Lab ID:	QC397748	Batch#:	127577		
Matrix:	Soil	Prepared:	07/24/07		
Units:	mg/Kg	Analyzed:	07/25/07		
Basis:	as received				

Cleanup Method: EPA 3630C

Hexacosane

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.82	36.61	73	58-127
Surrogate	%REC Limits			

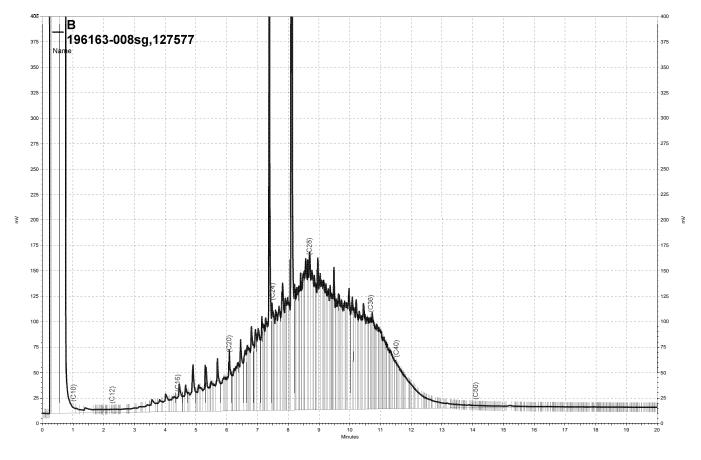
40-127

72

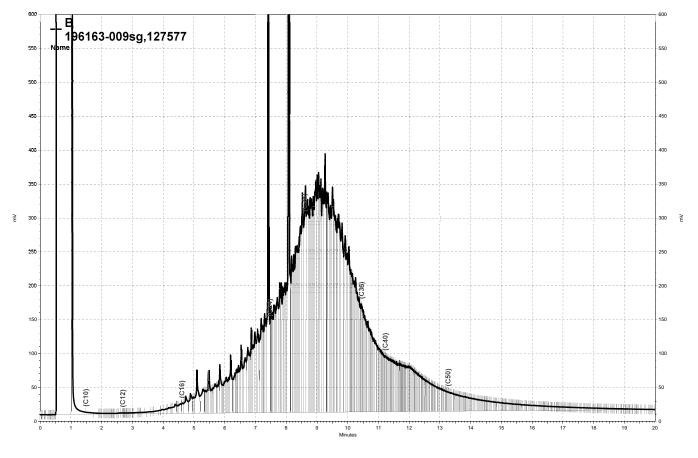


	Т	otal E	xtracta	ble Hydrocarbo	ns			
Lab #:	196163			Location:	Hanson Radum			
Client:	LFR Levine Fr	icke		Prep:	SHAKER TABLE			
Project#:	001-09567-01			Analysis:	EPA 8015B			
Field ID:	SS-31(D)-50.5			Batch#:	127577			
MSS Lab ID:	196163-006			Sampled:	07/23/07			
Matrix:	Soil			Received:	07/23/07			
Units:	mg/Kg			Prepared:	07/24/07			
Basis:	as received			Analyzed:	07/25/07			
Diln Fac:	1.000							
Type: Lab ID: Analyt	QC397749	MSS Res	ult	Spiked	Result	%REC	Lim	its
Diesel C10-C24		<0	.1859	50.04	23.34	47	29-	147
Gumm		%REC	Limits					
Hexacosane	ogate	47	40-127					
Type: Lab ID:	MSD QC397750	1,	10 12,	Cleanup Method:	EPA 3630C			
	-							
	lyte		Spiked	Result		Limits		Lim
Diesel C10-C24			50.41	39.	44 78	29-147	51 *	46

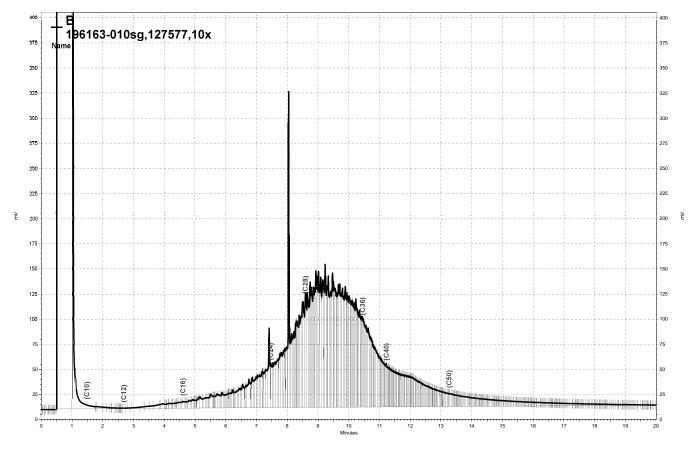
Surrogate	%REC	Limits
Hexacosane	78	40-127



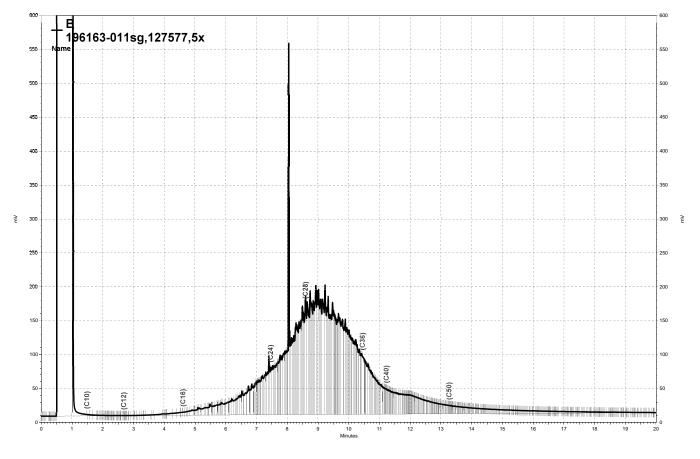
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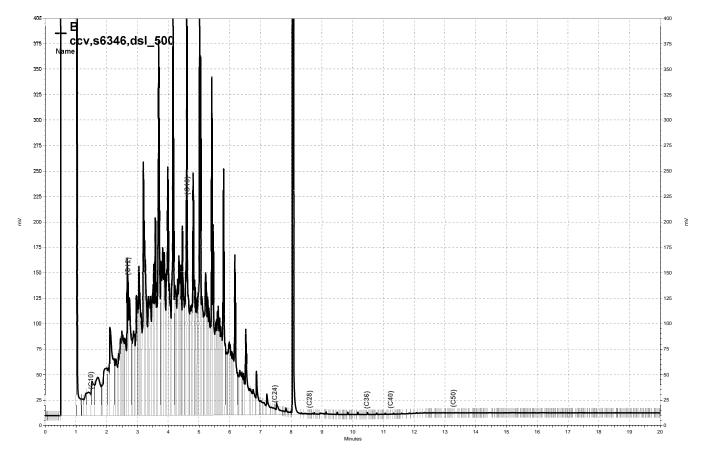
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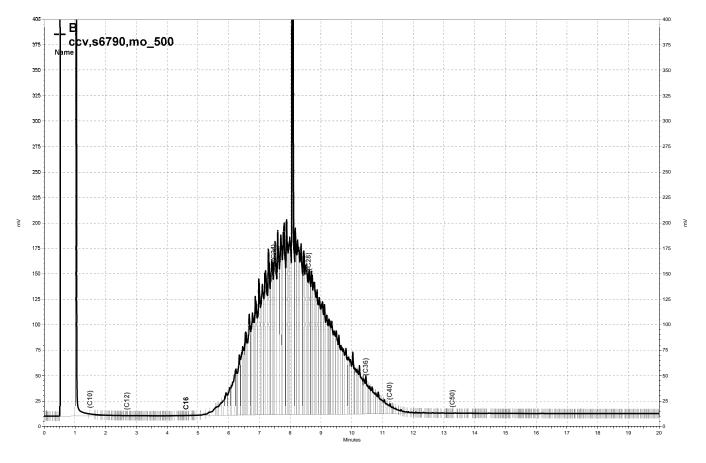
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		Gasoline	by GC/MS	
Lab #:	196163		Location:	Hanson Radum
Client:	LFR Levine Fricke		Prep:	EPA 5030B
Project#: Field ID:	<u>001-09567-01</u> SS-31(D)-GGW		<u>Analysis:</u> Batch#:	<u> </u>
Lab ID:	196163-001		Sampled:	07/23/07
Matrix:	Water		Received:	07/23/07
Units:	ug/L		Analyzed:	07/24/07
Diln Fac:	1.000			
Anal	vte	Result		RI.
Gasoline C7-C12		ND		50
tert-Butyl Alco	hol (TBA)	ND		10
Freon 12		ND		1.0
Chloromethane		ND		1.0
Vinyl Chloride Isopropyl Ether		ND ND		0.5 0.5
Bromomethane		ND		1.0
Ethyl tert-Buty	l Ether (ETBE)	ND		0.5

Gasoline C/-Cl2	ND	50	
tert-Butyl Alcohol (TBA)	ND	10	
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Isopropyl Ether (DIPE)	ND	0.5	
Bromomethane	ND	1.0	
Ethyl tert-Butyl Ether (ETBE)	ND	0.5	
Methyl tert-Amyl Ether (TAME)	ND	0.5	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Acetone	ND	10	
	ND	0.5	
Freon 113			
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	10	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
		0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
		0.5	
1,2-Dibromoethane	ND		
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
	ND	0.5	
1,1,2,2-Tetrachloroethane	IND	0.5	



	Gasolin	e by GC/MS	
Lab #: 196163		Location:	Hanson Radum
Client: LFR Levine F	ricke	Prep:	EPA 5030B
Project#: 001-09567-01		Analysis:	EPA 8260B
Field ID: SS-31(D)-GGW		Batch#:	127548
Lab ID: 196163-001		Sampled:	07/23/07
Matrix: Water		Received:	07/23/07
Units: ug/L		Analyzed:	07/24/07
Diln Fac: 1.000			
Analyte	Result		RL
Propylbenzene	ND		0.5
Bromobenzene	ND		0.5
1,3,5-Trimethylbenzene	ND		0.5
2-Chlorotoluene	ND		0.5
4-Chlorotoluene	ND		0.5
tert-Butylbenzene	ND		0.5
1,2,4-Trimethylbenzene	ND		0.5 0.5
sec-Butylbenzene	ND		0.5
para-Isopropyl Toluene	ND		0.5
1,3-Dichlorobenzene	ND		0.5
1,4-Dichlorobenzene	ND ND		0.5
n-Butylbenzene 1,2-Dichlorobenzene	ND ND		0.5
1,2-Dichiorobelizelle	ND ND		2.0
1,2-Dibromo-3-Chloropropane 1,2,4-Trichlorobenzene	ND ND		0.5
Hexachlorobutadiene	ND ND		0.5
Naphthalene	ND		2.0
1,2,3-Trichlorobenzene	ND		0.5
	ND		0.5
Surrogate	%REC Limits		
Dibromofluoromethane	96 80-123		
1,2-Dichloroethane-d4	104 79-134		
Toluene-d8	97 80-120		
Bromofluorobenzene	102 80-122		



Gasoline by GC/MS						
Lab #: Client: Project#:	196163 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B			
Field ID: Lab ID: Matrix: Units: Diln Fac:	SS-123(F1)-GGW 196163-002 Water ug/L 1.000	Batch#: Sampled: Received: Analyzed:	127548 07/23/07 07/23/07 07/24/07			

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Bromomethane	ND	1.0
	ND	0.5
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME) Chloroethane	ND ND	1.0
		- • •
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND ND	0.5
	ND ND	0.5
1,2-Dibromoethane		
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5

ND= Not Detected RL= Reporting Limit Page 1 of 2



		G	asoline	by GC/MS		
Lab #:	196163			Location:	Hanson Radum	
Client:	LFR Levine Frick	ce		Prep:	EPA 5030B	
Project#:	001-09567-01			Analysis:	EPA 8260B	
Field ID:	SS-123(F1)-GGW			Batch#:	127548	
Lab ID:	196163-002			Sampled:	07/23/07	
Matrix:	Water			Received:	07/23/07	
Units:	ug/L			Analyzed:	07/24/07	
Diln Fac:	1.000					
<u> </u>			Result		RL	
Analy	Le	ND	Result		0.5	
Propylbenzene Bromobenzene		ND			0.5	
		ND			0.5	
1,3,5-Trimethylbe 2-Chlorotoluene	enzene	ND			0.5	
4-Chlorotoluene		ND			0.5	
tert-Butylbenzene	2	ND			0.5	
1,2,4-Trimethylbe		ND			0.5	
sec-Butylbenzene	enzene	ND			0.5	
para-Isopropyl To	luene	ND			0.5	
1,3-Dichlorobenze		ND			0.5	
1,4-Dichlorobenze		ND			0.5	
n-Butylbenzene		ND			0.5	
1,2-Dichlorobenze	ene	ND			0.5	
1,2-Dibromo-3-Ch		ND			2.0	
1,2,4-Trichlorobe		ND			0.5	
Hexachlorobutadie		ND			0.5	
Naphthalene		ND			2.0	
1,2,3-Trichlorobe	enzene	ND			0.5	
, , ,						
Surroga		REC	Limits			
Dibromofluorometh			80-123			
1,2-Dichloroethan		24	79-134			
Toluene-d8	99		80-120			
Bromofluorobenzer	ne 10)7	80-122			



	Gasoline	by GC/MS	
Lab #: Client: Project#:	196163 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B
Matrix: Units: Diln Fac:	Water ug/L 1.000	Batch#: Analyzed:	127548 07/24/07

Туре:	BS			Lab ID:	QC	2397639		
	Analyte		Spiked		Result	%REC	Limits	
	Alcohol (TBA)		125.0		113.4	91	68-132	
Isopropyl E	ther (DIPE)		25.00		21.18	85	65-120	
Ethyl tert-	Butyl Ether (ETBE)		25.00		21.52	86	75-124	
	-Amyl Ether (TAME)		25.00		26.02	104	77-120	
1,1-Dichlor			25.00		26.02	104	80-132	
Benzene			25.00		25.63	103	80-120	
Trichloroet	hene		25.00		27.10	108	80-120	
Toluene			25.00		26.95	108	80-120	
Chlorobenze	ene		25.00		26.34	105	80-120	
S	urrogate	%REC	Limits					
Dibromofluc	promethane	97	80-123					
	oethane-d4	101	79-134					

Dibromofluoromethane	97	80-123
1,2-Dichloroethane-d4	101	79–134
Toluene-d8	101	80-120
Bromofluorobenzene	98	80-122

Type: BSD			Lab ID:	QC39	97640			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA	7)	125.0		112.6	90	68-132	1	20
Isopropyl Ether (DIPE)		25.00		19.99	80	65-120	6	20
Ethyl tert-Butyl Ether	(ETBE)	25.00		20.37	81	75-124	5	20
Methyl tert-Amyl Ether	(TAME)	25.00		24.22	97	77-120	7	20
1,1-Dichloroethene		25.00		24.08	96	80-132	8	20
Benzene		25.00		24.78	99	80-120	3	20
Trichloroethene		25.00		26.17	105	80-120	3	20
Toluene		25.00		25.93	104	80-120	4	20
Chlorobenzene		25.00		24.84	99	80-120	6	20
	.							
Surrogate	%REC	Limits						
Dibromofluoromethane	94	80-123						
1,2-Dichloroethane-d4	101	79-134						
Toluene-d8	100	80-120						
Bromofluorobenzene	98	80-122						



	Gasc	line by GC/MS		
Lab #:	196163	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Matrix:	Water	Batch#:	127548	
Units:	ug/L	Analyzed:	07/24/07	
Diln Fac:	1.000			

Type:

BS

Lab ID:

QC397641

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,500	1,511	101	70-130

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-123
1,2-Dichloroethane-d4	103	79-134
Toluene-d8	102	80-120
Bromofluorobenzene	95	80-122

Type: BSD			Lab ID:		QC397642			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Gasoline C7-C12		1,500		1,440	96	70-130	5	20
Surrogate	%REC	Limits						
Dibromofluoromethane	91	80-123						
1,2-Dichloroethane-d4	99	79-134						
Toluene-d8	96	80-120						
Bromofluorobenzene	97	80-122						



	Gasoline by GC/MS						
Lab #: Client: Project#:	196163 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B				
Type: Lab ID: Matrix: Units:	BLANK QC397643 Water ug/L	Diln [®] Fac: Batch#: Analyzed:	1.000 127548 07/24/07				

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Chloroethane	ND	1.0
Trichlorofluoromethane	ND ND	1.0
Acetone	ND	10 0.5
Freon 113	ND	0.5
1,1-Dichloroethene	ND	
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
	ND ND	0.5
1,2,3-Trichloropropane		0.5

ND= Not Detected RL= Reporting Limit Page 1 of 2



Lab #:	196163	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Type: Lab ID:	BLANK	Diln Fac:	1.000	
Lab ID:	QC397643	Batch#:	127548	
Matrix:	Water	Analyzed:	07/24/07	
Jnits:	ug/L	-		

Propylbenzene	ND		0.5
Bromobenzene	ND		0.5
1,3,5-Trimethylbenzene	ND		0.5
2-Chlorotoluene	ND		0.5
4-Chlorotoluene	ND		0.5
tert-Butylbenzene	ND		0.5
1,2,4-Trimethylbenzene	ND		0.5
sec-Butylbenzene	ND		0.5
para-Isopropyl Toluene	ND		0.5
1,3-Dichlorobenzene	ND		0.5
1,4-Dichlorobenzene	ND		0.5
n-Butylbenzene	ND		0.5
1,2-Dichlorobenzene	ND		0.5
1,2-Dibromo-3-Chloropropane	ND		2.0
1,2,4-Trichlorobenzene	ND		0.5
Hexachlorobutadiene	ND		0.5
Naphthalene	ND		2.0
1,2,3-Trichlorobenzene	ND		0.5
	0.5.7.4		
Surrogate	%REC	Limits	
Dibromofluoromethane	90	80-123	
1,2-Dichloroethane-d4	100	79-134	
Toluene-d8	98	80-120	
Bromofluorobenzene	101	80-122	

ND= Not Detected RL= Reporting Limit Page 2 of 2



BTXE & Oxygenates

Lab #:	196163	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(D)-25	Diln Fac:	1.000	
Lab ID:	196163-003	Batch#:	127547	
Matrix:	Soil	Sampled:	07/23/07	
Units:	ug/Kg	Received:	07/23/07	
Basis:	as received	Analyzed:	07/24/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	100	
MTBE	ND	5.0	
Isopropyl Ether (DIPE)	ND	5.0	
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	
1,2-Dichloroethane	ND	5.0	
Benzene	ND	5.0	
Methyl tert-Amyl Ether (TAME)	ND	5.0	
Toluene	ND	5.0	
1,2-Dibromoethane	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	

Surrogate	%REC	Limits
Dibromofluoromethane	95	78-126
1,2-Dichloroethane-d4	98	76-135
Toluene-d8	96	80-120
Bromofluorobenzene	91	80-126



BTXE & Oxygenates

Lab #:	196163	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(D)-30	Diln Fac:	0.9434	
Lab ID:	196163-004	Batch#:	127547	
Matrix:	Soil	Sampled:	07/23/07	
Units:	ug/Kg	Received:	07/23/07	
Basis:	as received	Analyzed:	07/24/07	

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	94	
MTBE	ND	4.7	
Isopropyl Ether (DIPE)	ND	4.7	
Ethyl tert-Butyl Ether (ETBE)	ND	4.7	
1,2-Dichloroethane	ND	4.7	
Benzene	ND	4.7	
Methyl tert-Amyl Ether (TAME)	ND	4.7	
Toluene	ND	4.7	
1,2-Dibromoethane	ND	4.7	
Ethylbenzene	ND	4.7	
m,p-Xylenes	ND	4.7	
o-Xylene	ND	4.7	

Surrogate	%REC	Limits	
Dibromofluoromethane	94	78-126	
1,2-Dichloroethane-d4	97	76-135	
Toluene-d8	97	80-120	
Bromofluorobenzene	91	80-126	



BTXE & Oxygenates

Lab #:	196163	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-01	Analysis:	EPA 8260B
Field ID:	SS-31(D)-40	Diln Fac:	0.9804
Lab ID:	196163-005	Batch#:	127547
Matrix:	Soil	Sampled:	07/23/07
Units:	ug/Kg	Received:	07/23/07
Basis:	as received	Analyzed:	07/24/07

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	98	
MTBE	ND	4.9	
Isopropyl Ether (DIPE)	ND	4.9	
Ethyl tert-Butyl Ether (ETBE)	ND	4.9	
1,2-Dichloroethane	ND	4.9	
Benzene	ND	4.9	
Methyl tert-Amyl Ether (TAME)	ND	4.9	
Toluene	ND	4.9	
1,2-Dibromoethane	ND	4.9	
Ethylbenzene	ND	4.9	
m,p-Xylenes	ND	4.9	
o-Xylene	ND	4.9	

Surrogate	%REC	Limits
Dibromofluoromethane	95	78-126
1,2-Dichloroethane-d4	97	76-135
Toluene-d8	96	80-120
Bromofluorobenzene	93	80-126



BTXE & Oxygenates Lab #: Hanson Radum 196163 Location: Client: LFR Levine Fricke Prep: EPA 5030B Project#: 001-09567-01 Analysis: EPA 8260B SS-31(D)-50.5 Field ID: Diln Fac: 0.9091 Lab ID: 196163-006 Batch#: 127547 Matrix: Soil Sampled: 07/23/07 07/23/07 Units: ug/Kg Received: Analyzed: Basis: as received 07/24/07

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	91	
MTBE	ND	4.5	
Isopropyl Ether (DIPE)	ND	4.5	
Ethyl tert-Butyl Ether (ETBE)	ND	4.5	
1,2-Dichloroethane	ND	4.5	
Benzene	ND	4.5	
Methyl tert-Amyl Ether (TAME)	ND	4.5	
Toluene	ND	4.5	
1,2-Dibromoethane	ND	4.5	
Ethylbenzene	ND	4.5	
m,p-Xylenes	ND	4.5	
o-Xylene	ND	4.5	

Surrogate	%REC	Limits	
Dibromofluoromethane	96	78-126	
1,2-Dichloroethane-d4	97	76-135	
Toluene-d8	96	80-120	
Bromofluorobenzene	93	80-126	



BTXE & Oxygenates Lab #: Hanson Radum 196163 Location: Client: LFR Levine Fricke Prep: EPA 5030B Project#: 001-09567-01 Analysis: EPA 8260B SS-31(D)-60.5 Field ID: Diln Fac: 1.000 Lab ID: 196163-007 Batch#: 127547 Matrix: Soil Sampled: 07/23/07 07/23/07 Units: ug/Kg Received: Basis: Analyzed: as received 07/24/07

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	100	
MTBE	ND	5.0	
Isopropyl Ether (DIPE)	ND	5.0	
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	
1,2-Dichloroethane	ND	5.0	
Benzene	ND	5.0	
Methyl tert-Amyl Ether (TAME)	ND	5.0	
Toluene	ND	5.0	
1,2-Dibromoethane	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	

Surrogate	%REC	imits	
Dibromofluoromethane	95	8-126	
1,2-Dichloroethane-d4	101	6-135	
Toluene-d8	96	0-120	
Bromofluorobenzene	95	0-126	



	BTXE & Oxygenates						
Lab #:	196163	Location:	Hanson Radum				
Client:	LFR Levine Fricke	Prep:	EPA 5030B				
Project#:	001-09567-01	Analysis:	EPA 8260B				
Type:	LCS	Basis:	as received				
Lab ID:	QC397637	Diln Fac:	1.000				
Matrix:	Soil	Batch#:	127547				
Units:	ug/Kg	Analyzed:	07/24/07				

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	154.6	124	56-130
MTBE	25.00	25.73	103	66-120
Isopropyl Ether (DIPE)	25.00	23.17	93	57-120
Ethyl tert-Butyl Ether (ETBE)	25.00	23.59	94	68-120
1,2-Dichloroethane	25.00	29.08	116	73-120
Benzene	25.00	25.86	103	80-120
Methyl tert-Amyl Ether (TAME)	25.00	26.65	107	73-120
Toluene	25.00	26.60	106	80-120
1,2-Dibromoethane	25.00	26.38	106	80-120
Ethylbenzene	25.00	27.96	112	80-125
m,p-Xylenes	50.00	52.61	105	80-123
o-Xylene	25.00	26.12	104	80-122

Surrogate	%REC	Limits	
Dibromofluoromethane	107	78-126	
1,2-Dichloroethane-d4	118	76-135	
Toluene-d8	101	80-120	
Bromofluorobenzene	101	80-126	



	BTXE & Oxygenates						
Lab #:	196163	Location:	Hanson Radum				
Client:	LFR Levine Fricke	Prep:	EPA 5030B				
Project#:	001-09567-01	Analysis:	EPA 8260B				
Type:	BLANK	Basis:	as received				
Lab ID:	QC397638	Diln Fac:	1.000				
Matrix:	Soil	Batch#:	127547				
Units:	ug/Kg	Analyzed:	07/24/07				

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	100	
MTBE	ND	5.0	
Isopropyl Ether (DIPE)	ND	5.0	
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	
1,2-Dichloroethane	ND	5.0	
Benzene	ND	5.0	
Methyl tert-Amyl Ether (TAME)	ND	5.0	
Toluene	ND	5.0	
1,2-Dibromoethane	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	

Surrogate	%REC	Limits	
Dibromofluoromethane	105	78-126	
1,2-Dichloroethane-d4	119	76-135	
Toluene-d8	101	80-120	
Bromofluorobenzene	101	80-126	



	BTX	E & Oxygenates		
Lab #: Client:	196163 LFR Levine Fricke	Location: Prep:	Hanson Radum EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	SS-31(D)-40	Diln Fac:	0.9804	
MSS Lab ID:	196163-005	Batch#:	127547	
Matrix:	Soil	Sampled:	07/23/07	
Units:	ug/Kg	Received:	07/23/07	
Basis:	as received	Analyzed:	07/25/07	

Type: MS			Lab ID:	QC397671		
Analyte	MSS	Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)		<3.013	245.1	183.1	75	45-123
MTBE		<0.1879	49.02	37.58	77	55-120
Isopropyl Ether (DIPE)		<0.1696	49.02	36.34	74	50-120
Ethyl tert-Butyl Ether (ETBE)		<0.08887	49.02	36.27	74	58-120
1,2-Dichloroethane		<0.1943	49.02	39.97	82	56-120
Benzene		<0.1351	49.02	42.71	87	61-122
Methyl tert-Amyl Ether (TAME)		<0.1769	49.02	42.18	86	60-120
Toluene		<0.5418	49.02	44.05	90	57-124
1,2-Dibromoethane		<0.2179	49.02	41.39	84	57-120
Ethylbenzene		<0.5715	49.02	45.63	93	55-129
m,p-Xylenes		<1.282	98.04	87.89	90	53-127
o-Xylene		<0.5054	49.02	44.61	91	54-127
	0.5-0					
Surrogate	%REC	Limits				
Dibromofluoromethane	99	78-126				
1,2-Dichloroethane-d4	99	76-135				
Toluene-d8	99	80-120				
Bromofluorobenzene	95	80-126				

Type: MSD		Lab ID: Q	QC397672			
Analyte tert-Butyl Alcohol (TBA) MTBE Isopropyl Ether (DIPE) Ethyl tert-Butyl Ether (ETBE) 1,2-Dichloroethane Benzene Methyl tert-Amyl Ether (TAME) Toluene 1,2-Dibromoethane	49 49 49 49 49 49 49		83 5 75 4 70 70 76 2 86 85 5 89	Limits 45-123 55-120 50-120 56-120 61-122 60-120 57-124 57-120	RPD 10 2 5 5 7 2 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Lim 32 20 20 20 20 20 20 20 21 20
Ethylbenzene m,p-Xylenes o-Xylene Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 Bromofluorobenzene	98	26 35	. 91	55-129 53-127 54-127	1 2 1	23 23 22



Project : 001-09567-02	LFR Levine Fricke
Location : Hanson Radum	1900 Powell Street
Level : II	Emeryville, CA 94608

Sample ID	Lab ID
SS-123(F2)-16.5	196188-001
SS-123(F2)-21	196188-002
SS-123(F2)-GGW	196188-003
SS-123(AA)-GGW	196188-004
SS-123(F3)-5.5	196188-005
SS-123(F3)-10.5	196188-006
SS-123(F3)-15.5	196188-007
SS-123(F3)-20.5	196188-008
SS-123(F3)-25.5	196188-009
SS-123(F3)-GGW	196188-010
SS-123(AA)-5.5	196188-011
SS-123(AA)-7.5	196188-012
SS-123(AA)-10.5	196188-013
SS-123(AA)-15.5	196188-014
SS-123(AA)-18	196188-015

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: Project Manager

Signature:

Operations Manager

Date: <u>07/30/200</u>7

Date: 07/31/2007

NELAP # 01107CA

Page 1 of ____



CASE NARRATIVE

Laboratory number:196188Client:LFR Levine FrickeProject:001-09567-02Location:Hanson RadumRequest Date:07/24/07Samples Received:07/24/07

This hardcopy data package contains sample and QC results for twelve soil samples and three water samples, requested for the above referenced project on 07/24/07. The samples were received cold and intact. All data were e-mailed to Katrin Schliewen on 07/26/07.

TPH-Extractables by GC (EPA 8015B) Water:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

SS-123(F2)-GGW (lab # 196188-003) and SS-123(AA)-GGW (lab # 196188-004) had pH greater than 2. No other analytical problems were encountered.



Total Extractable Hydrocarbons						
Lab #: Client: Project#:	196188 LFR Levine Fri 001-09567-02	.cke		Location: Prep: Analysis:	Hanson Radum EPA 3520C EPA 8015B	
Matrix: Units: Diln Fac: Batch#:	Water ug/L 1.000 127596			Sampled: Received: Prepared: Analyzed:	07/24/07 07/24/07 07/25/07 07/26/07	
Field ID: Type:	SS-123(F2)-GGW SAMPLE			Lab ID: Cleanup Method:	196188-003 EPA 3630C	
Anal Diesel C10-C24 Motor Oil C24-C			Result 990 H Y 4,000 H L	RL 50 300		
Surro Hexacosane	gate	%REC 90	Limits 61-134			
Field ID: Type:	SS-123(AA)-GGW SAMPLE			Lab ID: Cleanup Method:	196188-004 EPA 3630C	
Anal Diesel C10-C24 Motor Oil C24-C			Result 340 H Y 2,400 H I	RL 50 300		
Surro Hexacosane	gate	% REC 110	Limits 61-134			
Field ID: Type:	SS-123(F3)-GGW SAMPLE			Lab ID: Cleanup Method:	196188-010 EPA 3630C	
Anal Diesel C10-C24	yte	NI	Result	RL 50		
Motor Oil C24-C	36	NI		300		
Surro Hexacosane	gate	%REC 108	Limits 61-134			
Type: Lab ID:	BLANK QC397819			Cleanup Method:	EPA 3630C	
Anal Diesel C10-C24 Motor Oil C24-C		NI NI		RL 50 300		
Surro Hexacosane	gate	%REC 110	Limits 61-134			

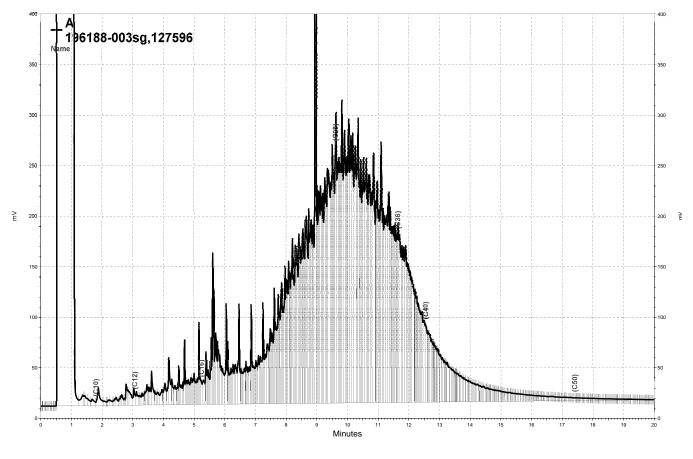
H= Heavier hydrocarbons contributed to the quantitation L= Lighter hydrocarbons contributed to the quantitation

Y= Sample exhibits chromatographic pattern which does not resemble standard ND= Not Detected RL= Reporting Limit

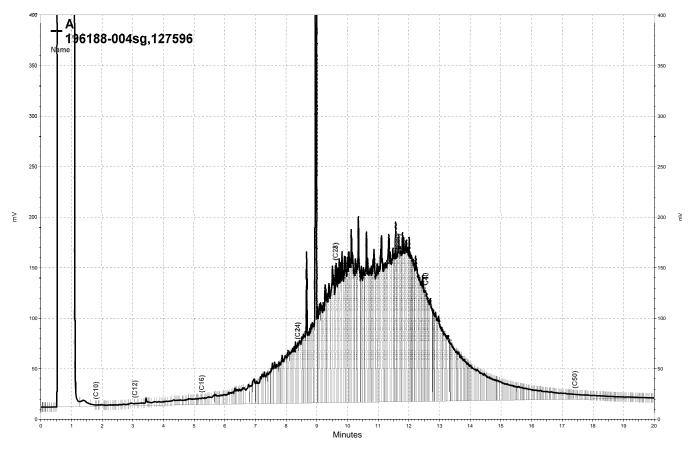
Page 1 of 1



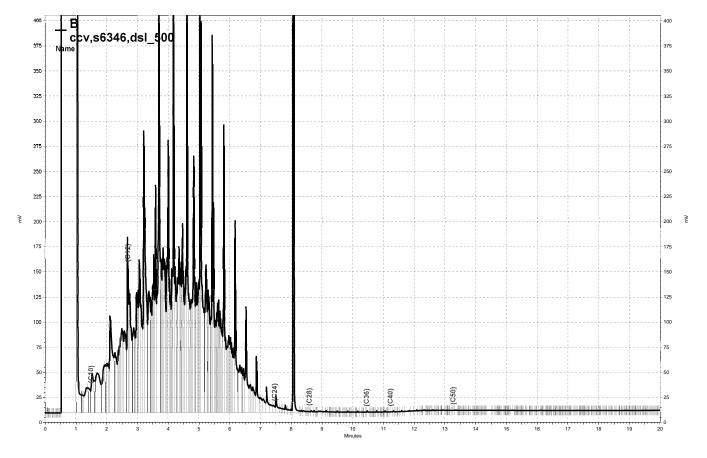
	r	otal 1	Extracta	ble Hydrocarbo	ns			
Lab #:	196188			Location:	Hanson Radum			
Client:	LFR Levine Fr	icke		Prep:	EPA 3520C			
Project#:	001-09567-02			Analysis:	EPA 8015B			
Matrix:	Water			Batch#:	127596			
Units:	ug/L			Prepared:	07/25/07			
Diln Fac:	1.000			Analyzed:	07/26/07			
Type: Lab ID:	BS QC397820			Cleanup Method:	EPA 3630C			
An	alyte		Spiked	Result	%REC	Limits		
Diesel C10-C2	24		2,500	2,461	98	58-130		
Sur	rogate	%REC	Limits					
Hexacosane		115	61-134					
Type: Lab ID:	BSD QC397821			Cleanup Method:	EPA 3630C			
	alyte		Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C2	24		2,500	2,634	105	58-130	7	27
Sur	rogate	%REC	Limits					
Hexacosane		124	61-134					



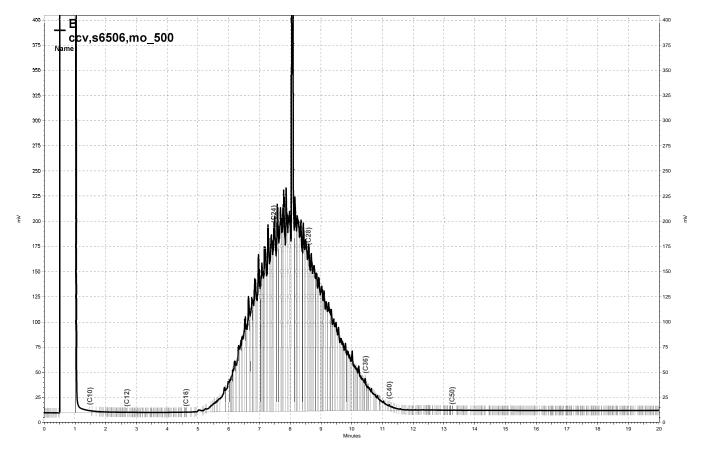
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\\Lims\gdrive\ezchrom\Projects\GC15B\Data\207b004, B



\Lims\gdrive\ezchrom\Projects\GC15B\Data\207b005, B



	Tota	al Extracta	ble Hydrocarbo	ns
Lab #: Client: Project#:	196188 LFR Levine Frick 001-09567-02	e	Location: Prep: Analysis:	Hanson Radum SHAKER TABLE EPA 8015B
Matrix: Units: Basis:	Soil mg/Kg as received		Batch#: Received: Prepared:	127616 07/24/07 07/25/07
Field ID: Type: Lab ID: Diln Fac:	SS-123(F2)-16.5 SAMPLE 196188-001 1.000		Sampled: Analyzed: Cleanup Method:	07/23/07 07/26/07 EPA 3630C
Anal Diesel C10-C24	yte	Result 27 H Y	RI.	99
Motor Oil C24-C	36	120 H L		
Surro Hexacosane	gate %	REC Limits		
Field ID: Type: Lab ID: Diln Fac:	SS-123(F2)-21 SAMPLE 196188-002 1.000		Sampled: Analyzed: Cleanup Method:	07/24/07 07/26/07 EPA 3630C
		Result	RL	
Anal Diesel C10-C24 Motor Oil C24-C	-	10 H Y 29 H L	0.	99 0
Surro		REC Limits		
Hexacosane	87	40-127		
Field ID: Type: Lab ID: Diln Fac:	SS-123(F3)-5.5 SAMPLE 196188-005 20.00		Sampled: Analyzed: Cleanup Method:	07/24/07 07/26/07 EPA 3630C
Anal	yte	Result	RL	
Diesel C10-C24 Motor Oil C24-C	36	83 Н Ү 970 Н	20 100	
Surro	gate %	REC Limits		
Hexacosane	<u>0</u>	40-127		

H= Heavier hydrocarbons contributed to the quantitation L= Lighter hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard Z= Sample exhibits unknown single peak or peaks DO= Diluted Out ND= Not Detected

- RL= Reporting Limit
- Page 1 of 5



	Total	Extracta	ble Hydrocarbo	ns
Lab #: Client:	196188 LFR Levine Fricke		Location:	Hanson Radum SHAKER TABLE
Project#:	001-09567-02		Prep: Analysis:	EPA 8015B
Matrix:	Soil		Batch#:	127616
Units:	mg/Kg		Received:	07/24/07
Basis:	as received		Prepared:	07/25/07
Field ID: Type: Lab ID: Diln Fac:	SS-123(F3)-10.5 SAMPLE 196188-006 1.000		Sampled: Analyzed: Cleanup Method:	07/24/07 07/26/07 EPA 3630C
Anal	vte	Result	RL	
Diesel C10-C24		3.3 H		0
Motor Oil C24-C	236	39 H	5.	0
Current	gate %REC	Limits		
Surro Hexacosane	95	40-127		
Field ID: Type: Lab ID: Diln Fac:	SS-123(F3)-15.5 SAMPLE 196188-007 10.00		Sampled: Analyzed: Cleanup Method:	07/24/07 07/26/07 EPA 3630C
		_		
Anal		Result	RL 10	
Diesel C10-C24	yte	19 H Y	10	
Diesel C10-C24 Motor Oil C24-C	.yte 236	19 Н Ү 270 Н		
Diesel C10-C24 Motor Oil C24-C Surro	yte 136 ogate %REC	19 H Y 270 H Limits	10	
Diesel C10-C24 Motor Oil C24-C	.yte 236	19 Н Ү 270 Н	10	07/24/07 07/26/07 EPA 3630C
Diesel C10-C24 Motor Oil C24-C Surro Hexacosane Field ID: Type: Lab ID: Diln Fac:	yte 236 bgate %REC DO SS-123(F3)-20.5 SAMPLE 196188-008 1.000	19 H Y 270 H Limits 40-127	Sampled: Analyzed: Cleanup Method:	07/26/07
Diesel C10-C24 Motor Oil C24-C Surro Hexacosane Field ID: Type: Lab ID: Diln Fac: Anal Diesel C10-C24	yte 236 Dogate %REC DO SS-123(F3)-20.5 SAMPLE 196188-008 1.000 .yte	19 H Y 270 H Limits 40-127 Result	Sampled: Analyzed: Cleanup Method: RL 1.	07/26/07 EPA 3630C
Diesel C10-C24 Motor Oil C24-C Surro Hexacosane Field ID: Type: Lab ID: Diln Fac: Anal	yte 236 Dogate %REC DO SS-123(F3)-20.5 SAMPLE 196188-008 1.000 .yte	19 H Y 270 H Limits 40-127 Result	Sampled: Analyzed: Cleanup Method: RL	07/26/07 EPA 3630C
Diesel C10-C24 Motor Oil C24-C Surro Hexacosane Field ID: Type: Lab ID: Diln Fac: Anal Diesel C10-C24	yte 236 bgate %REC DO SS-123(F3)-20.5 SAMPLE 196188-008 1.000 .yte N 236 N	19 H Y 270 H Limits 40-127 Result D	Sampled: Analyzed: Cleanup Method: RL 1.	07/26/07 EPA 3630C

H= Heavier hydrocarbons contributed to the quantitation L= Lighter hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard Z= Sample exhibits unknown single peak or peaks DO= Diluted Out

ND= Not Detected

RL= Reporting Limit

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	То	tal E	Extractal	ble Hydrocarbo	ns
Lab #: Client: Project#:	196188 LFR Levine Fri 001-09567-02	cke		Location: Prep: Analysis:	Hanson Radum SHAKER TABLE EPA 8015B
Matrix: Units: Basis:	Soil mg/Kg as received			Batch#: Received: Prepared:	127616 07/24/07 07/25/07
Field ID: Type: Lab ID: Diln Fac:	SS-123(F3)-25.5 SAMPLE 196188-009 1.000			Sampled: Analyzed: Cleanup Method:	07/24/07 07/26/07 EPA 3630C
۸na	lyte		Result	RL	
Diesel C10-C24			1.5 H	YZ 1.	
Motor Oil C24-	C36		8.2 H	5.	0
Surr	ogate	%REC	Limits		
Hexacosane		82	40-127		
Field ID: Type: Lab ID: Diln Fac:	SS-123(AA)-5.5 SAMPLE 196188-011 1.000			Sampled: Analyzed: Cleanup Method:	07/24/07 07/26/07 EPA 3630C
Ana Diesel C10-C24	lyte		Result 1.6 H	<u>RL</u> Y 1.	0
Motor Oil C24-	C36		15 H	5.	
Surr Hexacosane	ogate	% REC 78	Limits 40-127		
Field ID: Type: Lab ID: Diln Fac:	SS-123(AA)-7.5 SAMPLE 196188-012 20.00			Sampled: Analyzed: Cleanup Method:	07/24/07 07/25/07 EPA 3630C
-			Result	RL	
	lyte				
Ana Diesel C10-C24 Motor Oil C24-			89 H Y 810 H		
Diesel C10-C24 Motor Oil C24-		%REC	89 H Y 810 H	20	

H= Heavier hydrocarbons contributed to the quantitation L= Lighter hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard Z= Sample exhibits unknown single peak or peaks DO= Diluted Out

ND= Not Detected

RL= Reporting Limit

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		Extractal	ble Hydrocarbo	
Lab #: Client: Project#:	196188 LFR Levine Fricke 001-09567-02		Location: Prep: Analysis:	Hanson Radum SHAKER TABLE EPA 8015B
Matrix: Units: Basis:	Soil mg/Kg as received		Batch#: Received: Prepared:	127616 07/24/07 07/25/07
Field ID: Type: Lab ID: Diln Fac:	SS-123(AA)-10.5 SAMPLE 196188-013 1.000		Sampled: Analyzed: Cleanup Method:	07/24/07 07/26/07 EPA 3630C
Anal	vte	Result	RL	
Diesel C10-C24		1.9 H	YZ 1.	
Motor Oil C24-C	36	11 H	5.	0
Surro	gate %REC	Limits		
Hexacosane	75	40-127		
Field ID: Type: Lab ID: Diln Fac:	SS-123(AA)-15.5 SAMPLE 196188-014 10.00		Sampled: Analyzed: Cleanup Method:	07/24/07 07/25/07 EPA 3630C
Anal	yte	Result	RL	
Diesel C10-C24 Motor Oil C24-C	36	39 Н Ү 450 Н	10 50	
Surro Hexacosane	gate %REC DO	Limits 40-127		
Field ID: Type: Lab ID: Diln Fac:	SS-123(AA)-18 SAMPLE 196188-015 50.00	10-127	Sampled: Analyzed: Cleanup Method:	07/24/07 07/25/07 EPA 3630C
Anal Diesel C10-C24	yte	Result 170 H Y	RL 50	
Motor Oil C24-C	36	1,500 H	250	
Surro Hexacosane	gate %REC DO	Limits 40-127		
	20			

H= Heavier hydrocarbons contributed to the quantitation L= Lighter hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard Z= Sample exhibits unknown single peak or peaks DO= Diluted Out

ND= Not Detected

RL= Reporting Limit

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Total Extractable Hydrocarbons						
Lab #:	196188		Location:	Hanson Radum		
Client:	LFR Levine Fr:	icke	Prep:	SHAKER TABLE		
Project#:	001-09567-02		Analysis:	EPA 8015B		
Matrix:	Soil		Batch#:	127616		
Units:	mg/Kg		Received:	07/24/07		
Basis:	as received		Prepared:	07/25/07		
Type: Lab ID: Diln Fac:	BLANK QC397896 1.000 lyte	Result	Analyzed: Cleanup Method: RL	07/25/07 EPA 3630C		
Diesel C10-C24		ND Result		0		
Motor Oil C24-		ND ND	1. 5.			
MOCOL OIL C24-	C30		5.	0		
Surr	ogate	%REC Limits				
Hexacosane		66 40-127				

H= Heavier hydrocarbons contributed to the quantitation L= Lighter hydrocarbons contributed to the quantitation Y= Sample exhibits chromatographic pattern which does not resemble standard Z= Sample exhibits unknown single peak or peaks DO= Diluted Out ND= Not Detected RL= Reporting Limit Page 5 of 5



Total Extractable Hydrocarbons						
Lab #:	196188	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	SHAKER TABLE			
Project#:	001-09567-02	Analysis:	EPA 8015B			
Туре:	LCS	Diln Fac:	1.000			
Lab ID:	QC397897	Batch#:	127616			
Matrix:	Soil	Prepared:	07/25/07			
Units:	mg/Kg	Analyzed:	07/25/07			
Basis:	as received					

Cleanup Method: EPA 3630C

Hexacosane

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.85	38.76	78	58-127
Surrogate	%REC Limits			

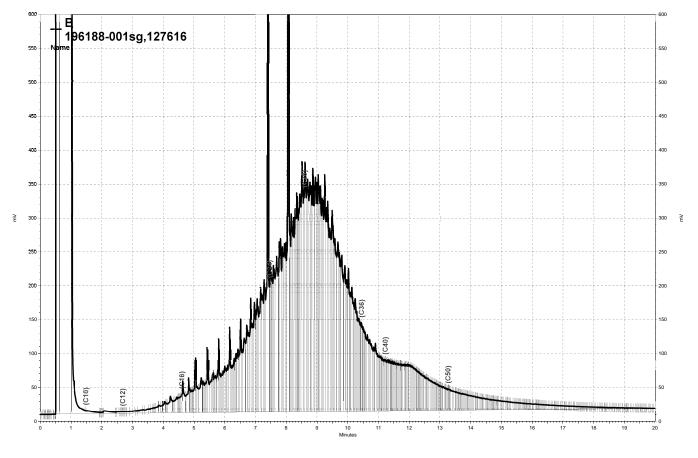
40-127

80

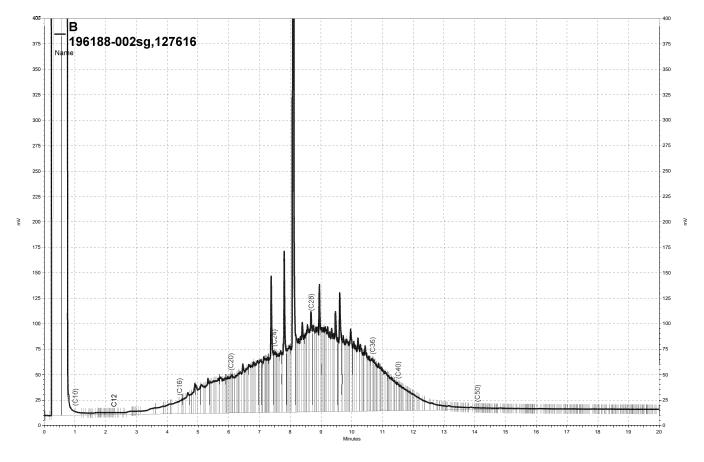


Total Extractable Hydrocarbons						
Lab #:	196188	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	SHAKER TABLE			
Project#:	001-09567-02	Analysis:	EPA 8015B			
Field ID:	ZZZZZZZZZ	Batch#:	127616			
MSS Lab ID:	196197-007	Sampled:	07/24/07			
Matrix:	Soil	Received:	07/25/07			
Units:	mg/Kg	Prepared:	07/25/07			
Basis:	as received	Analyzed:	07/26/07			
Diln Fac:	1.000					

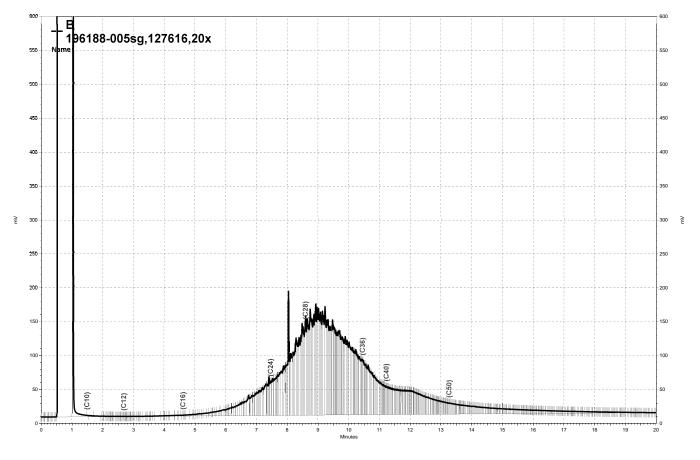
Туре:	MS			Lab ID:	QC3	97898			
	Analyte	MSS Res	ult	Spiked	1	Result	%REC	Limit	ts
Diesel Cl	0-C24	6	.942	49.9	91	48.64	84	29-14	47
	Surrogate	%REC	Limits						
Hexacosan	e	98	40-127						
Туре:	MSD			Lab ID:	QC3	97899			
	Analyte		Spiked		Result	%REC	Limits	RPD I	Lim
Diesel Cl	0-C24		49.88		54.94	96	29-147	12 4	46
	Surrogate	%REC	Limits						
Hexacosan	e	107	40-127						



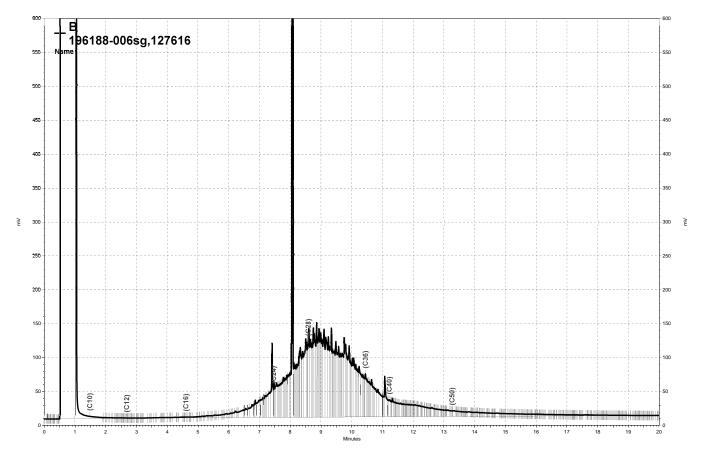
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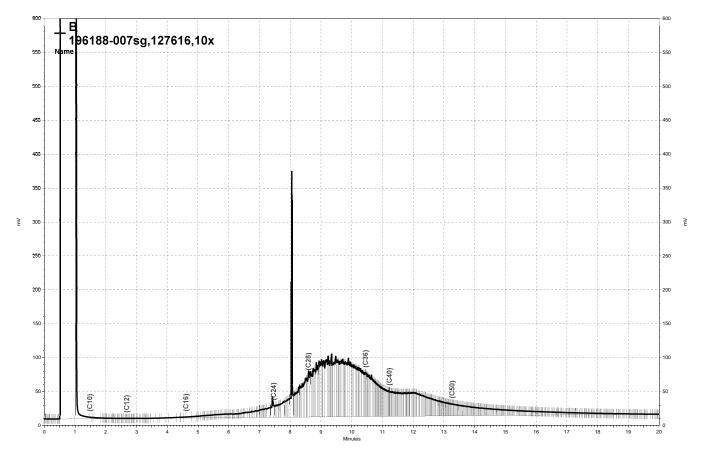
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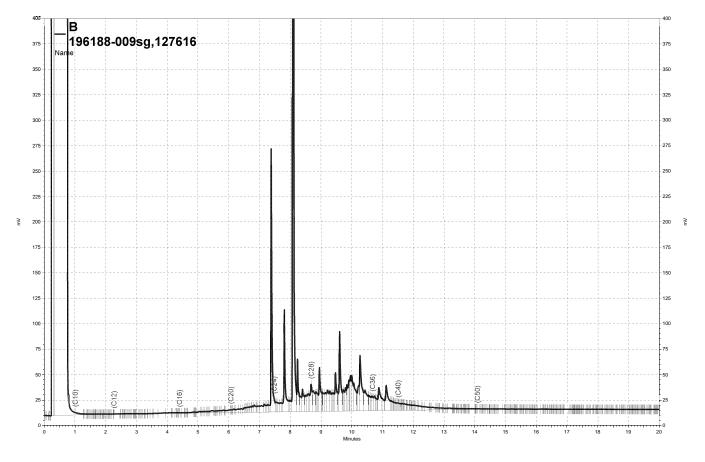
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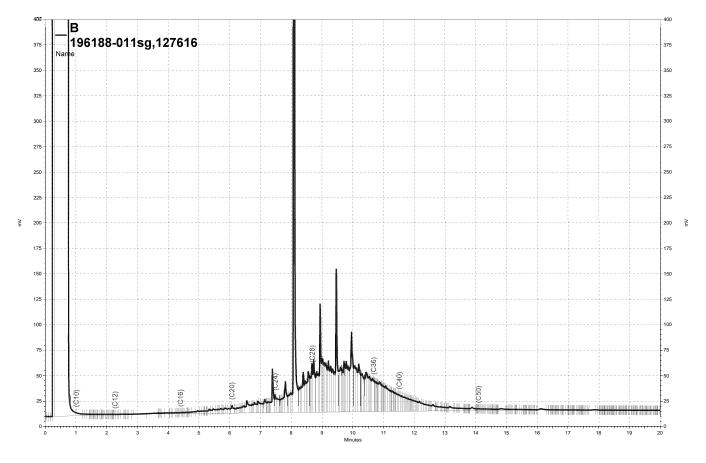
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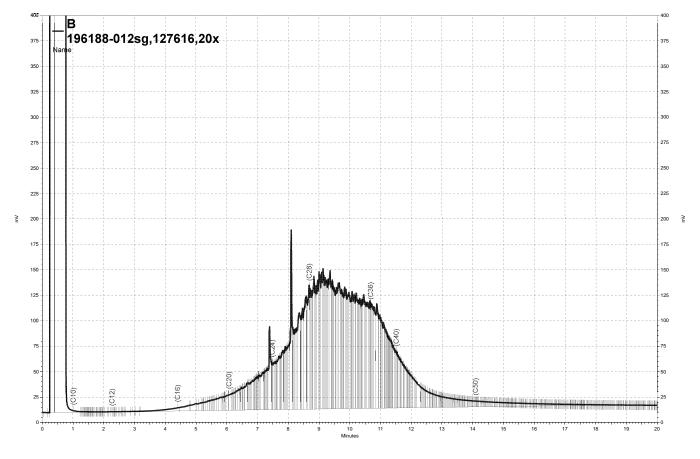
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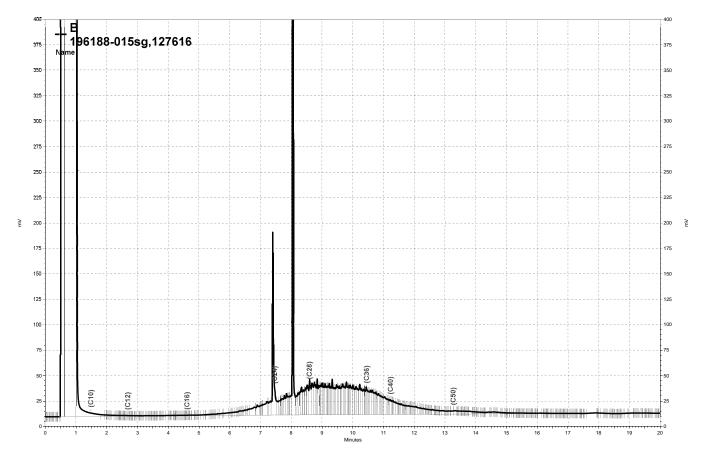
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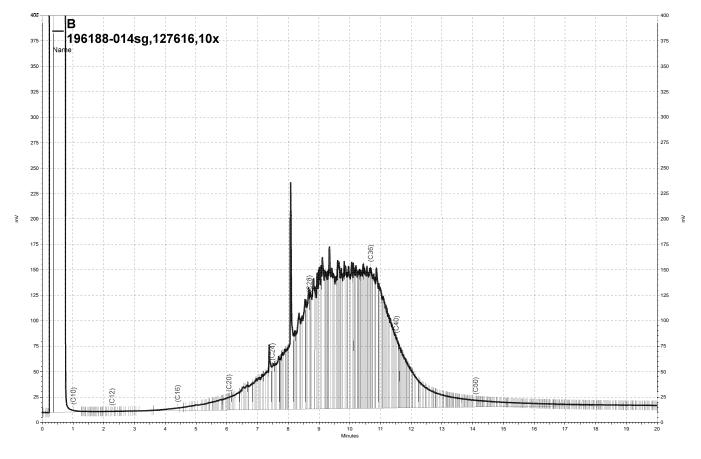
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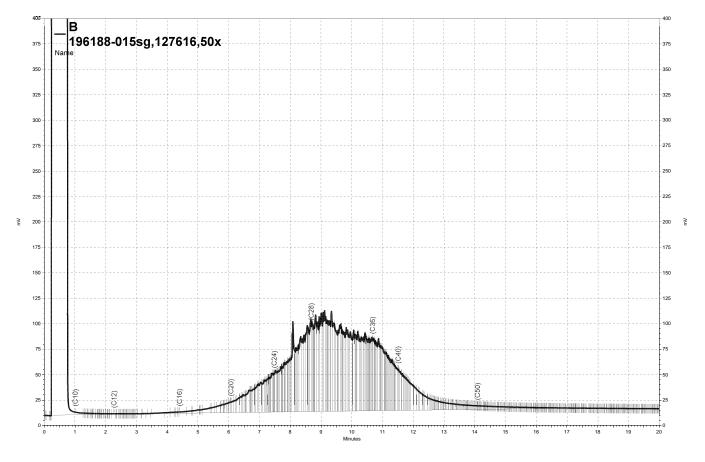
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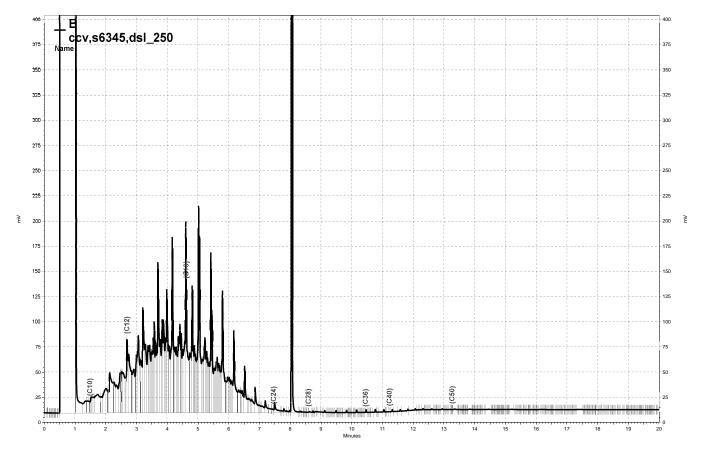
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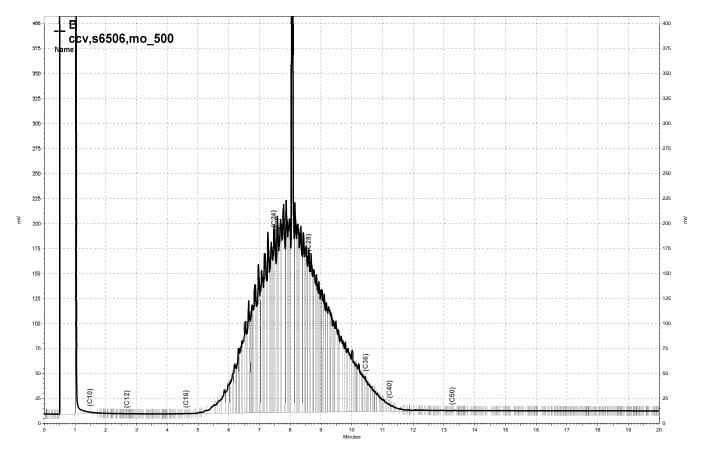
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		Gasoline	by GC/MS	
Lab #: Client: Project#:	196188 LFR Levine Fricke 001-09567-02		Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B
Field ID: Lab ID: Matrix: Units: Diln Fac:	SS-123(F2)-GGW 196188-003 Water ug/L 1.000		Batcĥ#: Sampled: Received: Analyzed:	127594 07/24/07 07/24/07 07/25/07
An Gasoline C7-C Freon 12 tert-Butyl Al Chloromethane	.cohol (TBA)	Result ND ND ND ND		RI. 50 1.0 10

Gasoline C7-C12	ND		50	
Freon 12	ND		1.0	
tert-Butyl Alcohol (TBA)	ND		10	
Chloromethane	ND		1.0	
Isopropyl Ether (DIPE)	ND		0.5	
Vinyl Chloride	ND		0.5	
Bromomethane	ND		1.0	
Ethyl tert-Butyl Ether (ETBE)	ND		0.5	
Chloroethane	ND		1.0	
Methyl tert-Amyl Ether (TAME)	ND		0.5	
Trichlorofluoromethane	ND		1.0	
Acetone	ND		10	
Freon 113	ND		0.5	
1,1-Dichloroethene	ND		0.5	
Methylene Chloride	ND		10	
Carbon Disulfide	ND	0.5	0.5	
MTBE	ND	0.5	0.5	
trans-1,2-Dichloroethene	ND		0.5	
			10	
Vinyl Acetate	ND			
1,1-Dichloroethane	ND		0.5 10	
2-Butanone	ND			
cis-1,2-Dichloroethene	ND		0.5	
2,2-Dichloropropane	ND		0.5	
Chloroform	ND		0.5	
Bromochloromethane	ND		0.5	
1,1,1-Trichloroethane	ND		0.5	
1,1-Dichloropropene	ND		0.5	
Carbon Tetrachloride	ND		0.5	
1,2-Dichloroethane	ND		0.5	
Benzene	ND		0.5	
Trichloroethene	ND		0.5	
1,2-Dichloropropane	ND		0.5	
Bromodichloromethane	ND		0.5	
Dibromomethane	ND		0.5	
4-Methyl-2-Pentanone	ND		10	
cis-1,3-Dichloropropene	ND		0.5	
Toluene		2.2	0.5	
trans-1,3-Dichloropropene	ND		0.5	
1,1,2-Trichloroethane	ND		0.5	
2-Hexanone	ND		10	
1,3-Dichloropropane	ND		0.5	
Tetrachloroethene	ND		0.5	
Dibromochloromethane	ND		0.5	
1,2-Dibromoethane	ND		0.5	
Chlorobenzene	ND		0.5	
1,1,1,2-Tetrachloroethane	ND		0.5	
Ethylbenzene	ND		0.5	
m,p-Xylenes	ND		0.5	
o-Xylene	ND		0.5	
Styrene	ND		0.5	
Bromoform	ND		1.0	
Isopropylbenzene	ND		0.5	
1,1,2,2-Tetrachloroethane	ND		0.5	
1,1,2,2-Tetrachioroethane	ND		0.5	
			$\frac{1}{2}$	



		Ga	asoline	by GC/MS	
Lab #: 1	96188			Location:	Hanson Radum
Client: L	FR Levine Fricke			Prep:	EPA 5030B
Project#: 0	01-09567-02			Analysis:	EPA 8260B
Field ID: S	S-123(F2)-GGW			Batch#:	127594
Lab ID: 1	96188-003			Sampled:	07/24/07
Matrix: W	ater			Received:	07/24/07
	g/L			Analyzed:	07/25/07
Diln Fac: 1	.000				
· · · · · · · · · · · · · · · · · · ·		_			
Analyte			esult		RL
Propylbenzene		ND			0.5
Bromobenzene		ND			0.5
1,3,5-Trimethylben 2-Chlorotoluene	zene	ND			0.5 0.5
4-Chlorotoluene		ND ND			0.5
		ND			0.5
tert-Butylbenzene 1,2,4-Trimethylben	5000	ND	0.7		0.5
sec-Butylbenzene	20110	ND	0.7		0.5
para-Isopropyl Tol	11000	Ш	0.7		0.5
1,3-Dichlorobenzen		ND	0.7		0.5
1,4-Dichlorobenzen		ND			0.5
n-Butylbenzene		ND			0.5
1,2-Dichlorobenzen	e	ND			0.5
1,2-Dibromo-3-Chlo		ND			2.0
1,2,4-Trichloroben		ND			0.5
Hexachlorobutadien		ND			0.5
Naphthalene	-		4.6		2.0
1,2,3-Trichloroben	zene	ND	· ·		0.5
Surrogat			Limits		
Dibromofluorometha			80-123		
1,2-Dichloroethane			79-134		
Toluene-d8	99		80-120		
Bromofluorobenzene	101		80-122		



Gasoline by GC/MS					
Lab #: Client: Project#:	196188 LFR Levine Fricke 001-09567-02	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B		
Field ID: Lab ID: Matrix: Units: Diln Fac:	SS-123(AA)-GGW 196188-004 Water ug/L 1.000	Batch#: Sampled: Received: Analyzed:	127594 07/24/07 07/24/07 07/25/07		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
	ND	0.5
Ethylbenzene	ND ND	0.5
m,p-Xylenes	ND ND	0.5
o-Xylene	ND ND	0.5
Styrene		1.0
Bromoform	ND ND	
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5



		G	asoline	by GC/MS		
Lab #:	196188			Location:	Hanson Radum	
Client:	LFR Levine Fric	ke		Prep:	EPA 5030B	
Project#:	001-09567-02			Analysis:	EPA 8260B	
Field ID:	SS-123(AA)-GGW			Batch#:	127594	
Lab ID:	196188-004			Sampled:	07/24/07	
Matrix:	Water			Received:	07/24/07	
Units:	ug/L			Analyzed:	07/25/07	
Diln Fac:	1.000					
Amo last			D = = - 1 +		RL	
Analy	Le	 ND	Result		0.5	
Propylbenzene Bromobenzene		ND ND			0.5	
1,3,5-Trimethylbe		ND ND			0.5	
2-Chlorotoluene	elizelle	ND ND			0.5	
4-Chlorotoluene		ND			0.5	
tert-Butylbenzene		ND			0.5	
1,2,4-Trimethylbe		ND			0.5	
sec-Butylbenzene	enzene	ND			0.5	
para-Isopropyl To	aluene	ND			0.5	
1,3-Dichlorobenze		ND			0.5	
1,4-Dichlorobenze		ND			0.5	
n-Butylbenzene	ene	ND			0.5	
1,2-Dichlorobenze	ene	ND			0.5	
1,2-Dibromo-3-Ch	loropropane	ND			2.0	
1,2,4-Trichlorobe		ND			0.5	
Hexachlorobutadie		ND			0.5	
Naphthalene		ND			2.0	
1,2,3-Trichlorobe	enzene	ND			0.5	
· · · · · · · · · · · · · · · · · · ·						
Surroga	ate	%REC	Limits			
Dibromofluoromet			80-123			
1,2-Dichloroethan		05	79-134			
Toluene-d8	9		80-120			
Bromofluorobenzer	ne 1	00	80-122			



Gasoline by GC/MS					
Lab #: Client: Project#:	196188 LFR Levine Fricke 001-09567-02	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B		
Field ID: Lab ID: Matrix: Units: Diln Fac:	SS-123(F3)-GGW 196188-010 Water ug/L 1.000	Batch#: Sampled: Received: Analyzed:	127594 07/24/07 07/24/07 07/25/07		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND ND	0.5
Trichlorofluoromethane	ND ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND ND	0.5
		0.5
Chlorobenzene	ND	
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5



	Gasolin	e by GC/MS	
Lab #: 196188		Location:	Hanson Radum
Client: LFR Levine Fr	ricke	Prep:	EPA 5030B
Project#: 001-09567-02		Analysis:	EPA 8260B
Field ID: SS-123(F3)-GG	W	Batch#:	127594
Lab ID: 196188-010		Sampled:	07/24/07
Matrix: Water		Received:	07/24/07
Units: ug/L		Analyzed:	07/25/07
Diln Fac: 1.000			
Analyte	Result		RL
Propylbenzene	ND		0.5
Bromobenzene	ND		0.5
1,3,5-Trimethylbenzene	ND		0.5
2-Chlorotoluene	ND		0.5
4-Chlorotoluene	ND		0.5 0.5
tert-Butylbenzene	ND		0.5
1,2,4-Trimethylbenzene sec-Butylbenzene	ND ND		0.5
para-Isopropyl Toluene	ND ND		0.5
1,3-Dichlorobenzene	ND		0.5
1,4-Dichlorobenzene	ND		0.5
n-Butylbenzene	ND		0.5
1,2-Dichlorobenzene	ND		0.5
1,2-Dibromo-3-Chloropropane	ND		2.0
1,2,4-Trichlorobenzene	ND		0.5
Hexachlorobutadiene	ND		0.5
Naphthalene	ND		2.0
1,2,3-Trichlorobenzene	ND		0.5
			•••
Surrogate	%REC Limits		
Dibromofluoromethane	98 80-123		
1,2-Dichloroethane-d4	105 79-134		
Toluene-d8	100 80-120		
Bromofluorobenzene	106 80-122		



Gasoline by GC/MS					
Lab #: Client: Project#:	196188 LFR Levine Fricke 001-09567-02	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B		
Matrix: Units: Diln Fac:	Water ug/L 1.000	Batch#: Analyzed:	127594 07/25/07		

Type: BS			Lab ID:	QC39	97811		
Analyte		Spiked		Result	%REC	Limits	
tert-Butyl Alcohol (TBA)		125.0		112.2	90	68-132	
Isopropyl Ether (DIPE)		25.00		19.99	80	65-120	
	FBE)	25.00		20.71	83	75-124	
Methyl tert-Amyl Ether (T	AME)	25.00		24.56	98	77-120	
1,1-Dichloroethene		25.00		24.16	97	80-132	
Benzene		25.00		25.20	101	80-120	
Trichloroethene		25.00		25.59	102	80-120	
Toluene		25.00		27.12	108	80-120	
Chlorobenzene		25.00		25.47	102	80-120	
Surrogate	%REC	Limits					
Dibromofluoromethane	94	80-123					
1.2-Dichloroethane-d4	103	79-134					

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Dibromofluoromethane	94	80-123
1,2-Dichloroethane-d4	103	79–134
Toluene-d8	98	80-120
Bromofluorobenzene	98	80-122

Type: BSD			Lab ID:	QC3	97812			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)		125.0		106.4	85	68-132	5	20
Isopropyl Ether (DIPE)		25.00		18.91	76	65-120	6	20
Ethyl tert-Butyl Ether (ETBE)		25.00		19.08	76	75-124	8	20
Methyl tert-Amyl Ether (TAME)		25.00		23.58	94	77-120	4	20
1,1-Dichloroethene		25.00		22.44	90	80-132	7	20
Benzene		25.00		23.09	92	80-120	9	20
Trichloroethene		25.00		23.50	94	80-120	9	20
Toluene		25.00		25.12	100	80-120	8	20
Chlorobenzene		25.00		24.03	96	80-120	6	20
Surrogate	%REC	Limits						
Dibromofluoromethane	93	80-123						
1,2-Dichloroethane-d4	100	79-134						
Toluene-d8	98	80-120						
Bromofluorobenzene	99	80-122						



Gasoline by GC/MS						
Lab #:	196188	Location:	Hanson Radum			
Client:	LFR Levine Fricke	Prep:	EPA 5030B			
Project#:	001-09567-02	Analysis:	EPA 8260B			
Matrix:	Water	Batch#:	127594			
Units:	ug/L	Analyzed:	07/25/07			
Diln Fac:	1.000					

Type:

Bromofluorobenzene

BS

Lab ID:

QC397813

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	943.9	94	70-130

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-123
1,2-Dichloroethane-d4	100	79-134
Toluene-d8	98	80-120
Bromofluorobenzene	99	80-122

Type:	BSD			Lab ID:	QC3	897814			
1	Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Gasoline C7-	-C12		1,000		831.4	83	70-130	13	20
Su	ırrogate	%REC	Limits						
Dibromofluor	romethane	94	80-123						
1,2-Dichloro	bethane-d4	100	79-134						
Toluene-d8		100	80-120						

80-122

99



	Gasoline by GC/MS					
Lab #: Client: Project#:	196188 LFR Levine Fricke 001-09567-02	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B			
Type: Lab ID: Matrix: Units:	BLANK QC397815 Water ug/L	Diln Fac: Batch#: Analyzed:	1.000 127594 07/25/07			

Analyte	Result	RL
Gasoline C7-C12	ND	50
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND ND	1.0
	ND ND	0.5
Methyl tert-Amyl Ether (TAME)	ND ND	1.0
Trichlorofluoromethane		
Acetone	ND	10 0.5
Freon 113	ND	0.5
1,1-Dichloroethene	ND	
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND ND	0.5
1,1,2,2-Tetrachloroethane	ND ND	0.5
	ND ND	0.5
1,2,3-Trichloropropane	ЛИГ	C. J



		Gasoline	e by GC/MS		
Lab #:	196188		Location:	Hanson Radum	
Client:	LFR Levine Frick	e	Prep:	EPA 5030B	
Project#:	001-09567-02		Analysis:	EPA 8260B	
Type:	BLANK		Diln Fac:	1.000	
Lab ID:	QC397815		Batch#:	127594	
Matrix:	Water		Analyzed:	07/25/07	
Units:	ug/L		_		
	nalyte	Result		RL	
Propylbenzene		ND		0.5	
Bromobenzene		ND		0.5	
1,3,5-Trimeth	hylbenzene	ND		0.5	
2-Chlorotolue	ene	ND		0.5	
4-Chlorotolue	ene	ND		0.5	
tert-Butylber	nzene	ND		0.5	

2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	0.5	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Surrogate	%REC Limits		
Dibromofluoromethane	93 80-123		
1,2-Dichloroethane-d4	99 79-134		
Toluene-d8	101 80-120		
Bromofluorobenzene	106 80-122		



LFR Levine Fricke	Project : 001-09567-01
1900 Powell Street	Location : Hanson Radum
Emeryville, CA 94608	Level : II

Sample ID TW-5

<u>Lab ID</u> 195957-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: Project Manager

Signature:

Operations Manager

Date: <u>07/25/2007</u>

Date: 07/25/2007

NELAP # 01107CA

Page 1 of ____



CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 195957 LFR Levine Fricke 001-09567-01 Hanson Radum 07/12/07 07/12/07

This hardcopy data package contains sample and QC results for one water sample, requested for the above referenced project on 07/12/07. The sample was received cold and intact. All data were e-mailed to Katrin Schliewen on 07/23/07.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A):

No analytical problems were encountered.



Total Extractable Hydrocarbons						
Lab #:	195957			Location:	Hanson Radum	
Client:	LFR Levine Fr	icke		Prep:	EPA 3520C	
Project#:	001-09567-01			Analysis:	EPA 8015B	
Field ID:	TW-5			Sampled:	07/12/07	
Matrix:	Water			Received:	07/12/07	
Units:	ug/L			Prepared:	07/13/07	
Diln Fac:	1.000			Analyzed:	07/20/07	
Batch#:	127244					
Type: Lab ID:	SAMPLE 195957-001			Cleanup Method:	EPA 3630C	
	alyte		Result	RL		
Diesel C10-C2		NI)	50		
Motor Oil C24	L-C36	NI)	300		
Sur	rogate	%REC	Limits			
Hexacosane		113	61-134			
Type: Lab ID:	BLANK QC396220			Cleanup Method:	EPA 3630C	
	alyte		Result	RL		
Diesel C10-C2		NI)	50		
Motor Oil C24	-C36	NI)	300		
Sur	rogate	%REC	Limits			
Hexacosane	-	114	61-134			



Total Extractable Hydrocarbons					
Lab #:	195957	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3520C		
Project#:	001-09567-01	Analysis:	EPA 8015B		
Туре:	LCS	Diln Fac:	1.000		
Lab ID:	QC396221	Batch#:	127244		
Matrix:	Water	Prepared:	07/13/07		
Units:	ug/L	Analyzed:	07/20/07		

Cleanup Method: EPA 3630C

Analyte		Spiked	Result	%REC	Limits
Diesel C10-C24	2,500		2,697	108	58-130
Surrogate	%REC	Limits			
Hexacosane	129	61-134			



Total Extractable Hydrocarbons					
Lab #:	195957	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3520C		
Project#:	001-09567-01	Analysis:	EPA 8015B		
Field ID:	ZZZZZZZZZ	Batch#:	127244		
MSS Lab ID:	195929-004	Sampled:	07/11/07		
Matrix:	Water	Received:	07/12/07		
Units:	ug/L	Prepared:	07/13/07		
Diln Fac:	1.000	Analyzed:	07/17/07		

Type:	MS			Lab ID:	QC396222		
1	Analyte	MSS Res	ult	Spiked	Result	%REC	Limits
Diesel Cl(0-C24	25	.03	2,500	2,571	102	57-134
	Surrogate	%REC	Limits				
Hexacosane	e	105	61-134				

Type:	be: MSD		Lab ID:	QC396223				
Analyte			Spiked		%REC	Limits	RPD	Lim
Diesel C10-C24		2,500		2,577	102	57-134	0	32
	Surrogate	%REC	Limits					
Hexacosane		106	61-134					



	Gasoline by GC/MS					
Lab #: Client: Project#:	195957 LFR Levine Fricke STANDARD	Prep: Analysis:	EPA 5030B EPA 8260B			
Field ID: Lab ID: Matrix: Units: Diln Fac:	TW-5 195957-001 Water ug/L 1.000	Batch#: Sampled: Received: Analyzed:	127216 07/12/07 07/12/07 07/13/07			

Analyte	Result	RL
Gasoline C7-C12	ND	50
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
1,2,3 IIICHIOLOPIOPAHE		0.5



	Gasoline	by GC/MS	
Lab #: 195957		Prep:	EPA 5030B
Client: LFR Levine F:	ricke	Analysis:	EPA 8260B
Project#: STANDARD			
Field ID: TW-5		Batch#:	127216
Lab ID: 195957-001		Sampled:	07/12/07
Matrix: Water		Received:	07/12/07
Units: ug/L		Analyzed:	07/13/07
Diln Fac: 1.000			
) ma luta	Dogult		DI
Analyte Propylbenzene	Result ND		RL 0.5
Bromobenzene	ND		0.5
1,3,5-Trimethylbenzene	ND		0.5
2-Chlorotoluene	ND		0.5
4-Chlorotoluene	ND		0.5
tert-Butylbenzene	ND		0.5
1,2,4-Trimethylbenzene	ND		0.5
sec-Butylbenzene	ND		0.5
para-Isopropyl Toluene	ND		0.5
1,3-Dichlorobenzene	ND		0.5
1,4-Dichlorobenzene	ND		0.5
n-Butylbenzene	ND		0.5
1,2-Dichlorobenzene	ND		0.5
1,2-Dibromo-3-Chloropropane	ND		2.0
1,2,4-Trichlorobenzene	ND		0.5
Hexachlorobutadiene	ND		0.5
Naphthalene	ND		2.0
1,2,3-Trichlorobenzene	ND		0.5
Surrogate	%REC Limits		
Dibromofluoromethane	95 80-123		
1,2-Dichloroethane-d4 Toluene-d8	96 79-134 98 80-120		
Bromofluorobenzene	98 80-120 99 80-122		
BLOWOLTHOLODEUZEUE	<u>99</u> 80-122		



Gasoline by GC/MS					
Lab #: Client: Project#:	195957 LFR Levine Fricke STANDARD	Prep: Analysis:	EPA 5030B EPA 8260B		
Type: Lab ID: Matrix: Units:	BLANK QC396077 Water ug/L	Diln Fac: Batch#: Analyzed:	1.000 127216 07/13/07		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Freon 12	ND	1.0
tert-Butyl Alcohol (TBA)	ND	10
Chloromethane	ND	1.0
Isopropyl Ether (DIPE)	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Chloroethane	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	0.5
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
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	Gasolin	e by GC/MS		
Lab #: 195957		Prep:	EPA 5030B	
Client: LFR Levine H	ricke	Analysis:	EPA 8260B	
Project#: STANDARD				
Type: BLANK		Diln Fac:	1.000	
Lab ID: QC396077		Batch#:	127216	
Matrix: Water		Analyzed:	07/13/07	
Units: ug/L				
Analyte	Result		RL	
Propylbenzene	ND		0.5	
Bromobenzene	ND		0.5	
1,3,5-Trimethylbenzene	ND		0.5	
2-Chlorotoluene	ND		0.5	
4-Chlorotoluene	ND		0.5	
tert-Butylbenzene	ND		0.5	
1,2,4-Trimethylbenzene	ND		0.5	
sec-Butylbenzene	ND		0.5	
para-Isopropyl Toluene	ND		0.5	
1,3-Dichlorobenzene	ND		0.5	
1,4-Dichlorobenzene	ND		0.5	
n-Butylbenzene	ND		0.5 0.5	
1,2-Dichlorobenzene	ND		2.0	
1,2-Dibromo-3-Chloropropane 1,2,4-Trichlorobenzene	ND ND		0.5	
Hexachlorobutadiene	ND ND		0.5	
Naphthalene	ND ND		2.0	
1,2,3-Trichlorobenzene	ND		0.5	
1,2,3-1110100001120112	ND		0.5	
Surrogate	%REC Limits			
Dibromofluoromethane	94 80-123			
1,2-Dichloroethane-d4	95 79-134			
Toluene-d8	98 80-120			
Bromofluorobenzene	100 80-122			



Gasoline by GC/MS					
Lab #: Client: Project#:	195957 LFR Levine Fricke STANDARD	Prep: Analysis:	EPA 5030B EPA 8260B		
Matrix: Units: Diln Fac:	Water ug/L 1.000	Batch#: Analyzed:	127216 07/13/07		

Type: BS		Lab ID: QC3	96078	
Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	150.0	157.5	105	68-132
Isopropyl Ether (DIPE)	30.00	25.77	86	65-120
Ethyl tert-Butyl Ether (ETBE)	30.00	29.99	100	75-124
Methyl tert-Amyl Ether (TAME)	30.00	32.54	108	77-120
1,1-Dichloroethene	30.00	32.29	108	80-132
Benzene	30.00	30.15	100	80-120
Trichloroethene	30.00	28.88	96	80-120
Toluene	30.00	31.17	104	80-120
Chlorobenzene	30.00	30.69	102	80-120
Surrogate	%REC Limits			
Dibromofluoromethane	97 80-123			
1 2-Dichloroethane-d4	95 79-134			

Burrogace	-ortic	DIMICS	
Dibromofluoromethane	97	80-123	
1,2-Dichloroethane-d4	95	79-134	
Toluene-d8	97	80-120	
Bromofluorobenzene	97	80-122	

Type: BSD			Lab ID:	QC39	6079			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)		150.0		167.4	112	68-132	6	20
Isopropyl Ether (DIPE)		30.00		27.39	91	65-120	6	20
Ethyl tert-Butyl Ether (ETBE)		30.00		30.87	103	75-124	3	20
Methyl tert-Amyl Ether (TAME)		30.00		33.64	112	77-120	3	20
1,1-Dichloroethene		30.00		34.57	115	80-132	7	20
Benzene		30.00		31.40	105	80-120	4	20
Trichloroethene		30.00		29.60	99	80-120	2	20
Toluene		30.00		32.85	110	80-120	5	20
Chlorobenzene		30.00		31.73	106	80-120	3	20
Surrogate	%REC	Limits						
Dibromofluoromethane	96	80-123						
1,2-Dichloroethane-d4	96	79-134						
Toluene-d8	100	80-120						
Bromofluorobenzene	96	80-122						



Gasoline by GC/MS					
Lab #:	195957	Prep:	EPA 5030B		
Client:	LFR Levine Fricke	Analysis:	EPA 8260B		
Project#:	STANDARD				
Matrix:	Water	Batch#:	127216		
Units:	ug/L	Analyzed:	07/13/07		
Diln Fac:	1.000				

Type:

BS

Bromofluorobenzene

Lab ID:

QC396080

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,500	1,352	90	70-130

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-123
1,2-Dichloroethane-d4	95	79-134
Toluene-d8	99	80-120
Bromofluorobenzene	98	80-122

Type: BSD			Lab ID:	(QC396081			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Gasoline C7-C12		1,500		1,320	88	70-130	2	20
ann an the	%REC	Limits						
Surrogate								
	-SKEC							
Dibromofluoromethane	96	80-123						

80-122

94



	S	emivolatile	Organics by	GC/MS
Lab #:	195957		Prep:	EPA 3520C
Client:	LFR Levine Fri	lcke	Analysis:	EPA 8270C
Project#:	STANDARD		Z ·- ·-	
Field ID:	TW-5		Batch#:	127305
Lab ID:	195957-001		Sampled:	07/12/07
Matrix:	Water		Received:	07/12/07
Units:	ug/L		Prepared:	07/16/07
Diln Fac:	1.000		Analyzed:	07/17/07
Dim Fac.	1.000		Anaryzeu	07717707
Analy	te	Result		RL
N-Nitrosodimethy		ND		9.4
Phenol		ND		9.4
bis(2-Chloroethy)	1)ether	ND		9.4
2-Chlorophenol		ND		9.4
1,3-Dichlorobenz	ene	ND		9.4
1,4-Dichlorobenz		ND		9.4
Benzyl alcohol		ND		9.4
1,2-Dichlorobenz	ene	ND		9.4
2-Methylphenol	C11C	ND		9.4
bis(2-Chloroisop:	ropyl) ether	ND		9.4
4-Methylphenol	TODAT' COUCT	ND		9.4
N-Nitroso-di-n-p	ronulamino	ND		9.4
Hexachloroethane		ND ND		9.4
Nitrobenzene		ND ND		9.4 9.4
				9.4
Isophorone		ND		19
2-Nitrophenol	-]	ND		9.4
2,4-Dimethylphene	01	ND		
Benzoic acid) I.I.	ND		47
bis(2-Chloroetho		ND		9.4
2,4-Dichlorophene		ND		9.4
1,2,4-Trichlorob	enzene	ND		9.4
Naphthalene		ND		9.4
4-Chloroaniline		ND		9.4
Hexachlorobutadi		ND		9.4
4-Chloro-3-methy		ND		9.4
2-Methylnaphthal		ND		9.4
Hexachlorocyclop		ND		19
2,4,6-Trichlorop		ND		9.4
2,4,5-Trichlorop		ND		9.4
2-Chloronaphthal	ene	ND		9.4
2-Nitroaniline		ND		19
Dimethylphthalat	e	ND		9.4
Acenaphthylene		ND		9.4
2,6-Dinitrotolue	ne	ND		9.4
3-Nitroaniline		ND		19
Acenaphthene		ND		9.4
2,4-Dinitropheno	1	ND		19
4-Nitrophenol		ND		19
Dibenzofuran		ND		9.4
2,4-Dinitrotolue		ND		9.4
Diethylphthalate		ND		9.4
Fluorene		ND		9.4
4-Chlorophenyl-pl	henylether	ND		9.4
4-Nitroaniline	-	ND		19
4,6-Dinitro-2-me	thylphenol	ND		19
N-Nitrosodipheny	lamine	ND		9.4
Azobenzene		ND		9.4
4-Bromophenyl-ph	envlether	ND		9.4
Hexachlorobenzen		ND		9.4
Pentachloropheno		ND		19
Phenanthrene		ND		9.4
Anthracene		ND		9.4
Di-n-butylphthala	ate	ND		9.4
Fluoranthene		ND		9.4
				- • •



		Semivolati	le Organics by	GC/MS	
Lab #:	195957		Prep:	EPA 3520C	
Client:	LFR Levine F	ricke	Analysis:	EPA 8270C	
Project#:	STANDARD				
Field ID:	TW-5		Batch#:	127305	
Lab ID:	195957-001		Sampled	07/12/07	
Matrix:	Water		Received:	07/12/07	
Units:	ug/L		Prepared	07/16/07	
Diln Fac:	1.000		Analyzed:	07/17/07	
Analy	7+0	Resu	11+	RL	
Pyrene	'Le	ND		9.4	
Butylbenzylphtha	lato	ND		9.4	
3,3'-Dichloroben		ND		19	
Benzo(a)anthrace		ND		9.4	
Chrysene		ND		9.4	
bis(2-Ethylhexyl)phthalate	ND		9.4	
Di-n-octylphthal	ate	ND		9.4	
Benzo(b)fluorant		ND		9.4	
Benzo(k)fluorant		ND		9.4	
Benzo(a)pyrene		ND		9.4	
Indeno $(1, 2, 3-cd)$	pyrene	ND		9.4	
Dibenz(a,h)anthr	racene	ND		9.4	
Benzo(g,h,i)pery	/lene	ND		9.4	
		<u> </u>			
Surrog	jate		nits		
2-Fluorophenol Phenol-d5			-120 -120		
	onol		-120		
2,4,6-Tribromoph Nitrobenzene-d5	TellOT		-120		
Terphenyl -d14	-				
2-Fluorobiphenyl Terphenyl-dl4	-	77 50-	-120 -120 -120		



	Semivolatile	Organics by G	C/MS
Lab #: 195957		Prep:	EPA 3520C
Client: LFR Levine F:	ricke	Analysis:	EPA 8270C
Project#: STANDARD			
Type: BLANK		Diln Fac:	1.000
Lab ID: QC396535		Batch#:	127305
Matrix: Water		Prepared:	07/16/07
Units: uq/L		Analyzed:	07/17/07
UIILS: ug/L		Analyzeu	07/17/07
Analyte	Result	RI	_
	ND		0
N-Nitrosodimethylamine Phenol			0
	ND	-	0
bis(2-Chloroethyl)ether	ND		
2-Chlorophenol	ND		.0
1,3-Dichlorobenzene	ND		.0
1,4-Dichlorobenzene	ND		.0
Benzyl alcohol	ND		_0
1,2-Dichlorobenzene	ND		_0
2-Methylphenol	ND		_0
bis(2-Chloroisopropyl) ether	ND		_0
4-Methylphenol	ND		_0
N-Nitroso-di-n-propylamine	ND		_0
Hexachloroethane	ND		.0
Nitrobenzene	ND		0
Isophorone	ND		0
2-Nitrophenol	ND		20
2,4-Dimethylphenol	ND		0
Benzoic acid	ND		50
bis(2-Chloroethoxy)methane	ND		0
2,4-Dichlorophenol	ND		.0
1,2,4-Trichlorobenzene	ND		.0
Naphthalene	ND		.0
4-Chloroaniline	ND		.0
Hexachlorobutadiene	ND		.0
4-Chloro-3-methylphenol	ND		_0
2-Methylnaphthalene	ND		_0
Hexachlorocyclopentadiene	ND		20
2,4,6-Trichlorophenol	ND		.0
2,4,5-Trichlorophenol	ND	1	_0
2-Chloronaphthalene	ND	1	_0
2-Nitroaniline	ND	2	20
Dimethylphthalate	ND		_0
Acenaphthylene	ND		.0
2,6-Dinitrotoluene	ND		0
3-Nitroaniline	ND		20
Acenaphthene	ND		0
2,4-Dinitrophenol	ND		20
4-Nitrophenol	ND		20
Dibenzofuran	ND		0
2,4-Dinitrotoluene	ND ND		0
Diethylphthalate	ND		-0
Fluorene	ND		.0
4-Chlorophenyl-phenylether	ND		_0
4-Nitroaniline	ND		20
4,6-Dinitro-2-methylphenol	ND		20
N-Nitrosodiphenylamine	ND		.0
Azobenzene	ND		.0
4-Bromophenyl-phenylether	ND		_0
Hexachlorobenzene	ND		.0
Pentachlorophenol	ND		20
Phenanthrene	ND		_0
Anthracene	ND		0
Di-n-butylphthalate	ND		0
Fluoranthene	ND		0
		-	-

ND= Not Detected RL= Reporting Limit

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		Semivo	latile C	rganics by	GC/№	
Lab #: Client: Project#:	195957 LFR Levine B STANDARD	Fricke		Prep: Analysis:		EPA 3520C EPA 8270C
Type: Lab ID: Matrix: Units:	BLANK QC396535 Water ug/L			Diln Fac: Batch#: Prepared: Analyzed:		1.000 127305 07/16/07 07/17/07
Anal	vte		Result		RL	
Pyrene Butylbenzylphtha 3,3'-Dichlorober Benzo(a)anthrace Chrysene bis(2-Ethylhexy Di-n-octylphtha Benzo(b)fluorant Benzo(k)fluorant Benzo(a)pyrene Indeno(1,2,3-cd Dibenz(a,h)anth Benzo(g,h,i)per	alate nzidine ene l)phthalate late thene thene)pyrene racene	NI NI NI NI NI NI NI NI NI NI			10 10 20 10 10 10 10 10 10 10 10 10	
Surrog 2-Fluorophenol Phenol-d5 2,4,6-Tribromopl Nitrobenzene-d5 2-Fluorobipheny Terphenyl-d14	nenol	%REC 59 75 95 73 74 75	Limits 40-120 38-120 40-120 48-120 50-120 23-120			



	Semivolati	lle Organics by G	C/MS	
Lab #: Client: Project#:	195957 LFR Levine Fricke STANDARD	Prep: Analysis:	EPA 3520C EPA 8270C	
Matrix: Units: Diln Fac:	Water ug/L 1.000	Batch#: Prepared:	127305 07/16/07	

	BS QC396536			Analyzed:	07/	17/07		
Analy	te		Spiked		Result	%REC	Limits	
Phenol			80.00		58.00	72	47-120	
2-Chlorophenol			80.00		61.38	77	52-120	
1,4-Dichlorobenz			40.00		28.95	72	41-120	
N-Nitroso-di-n-p	ropylamine		40.00		27.46	69	46-120	
1,2,4-Trichlorok			40.00		30.96	77	45-120	
4-Chloro-3-methy			80.00		65.23	82	52-120	
Acenaphthene	-		40.00		31.16	78	52-120	
4-Nitrophenol			80.00		62.86	79	46-120	
2,4-Dinitrotolue	ne		40.00		36.06	90	49-120	
Pentachlorophenc			80.00		73.13	91	39-120	
Pyrene			40.00		32.86	82	48-120	
Surrog	ate	%REC	Limits					
2-Fluorophenol		74	40-120					
Phenol-d5		76	38-120					
2,4,6-Tribromoph	lenol	108	40-120					
Nitrobenzene-d5		76	48-120					
2-Fluorobiphenyl		76	50-120					
Terphenyl-d14		82	23-120					

Type:

Terphenyl-d14

BSD

Lab ID: QC396537 Analyte Spiked Result %REC Limits RPD Lim 50.40 Phenol 80.00 47-120 14 28 63 52-120 27 2-Chlorophenol 80.00 54.46 68 12 1,4-Dichlorobenzene 40.00 26.04 65 41-120 11 32 23.33 N-Nitroso-di-n-propylamine 40.00 58 46-120 28 16 1,2,4-Trichlorobenzene 40.00 28.03 70 45-120 10 29 4-Chloro-3-methylphenol 52-120 26 56.51 71 14 80.00 70 52-120 Acenaphthene 40.00 27.83 11 27 52.21 4-Nitrophenol 80.00 65 46-120 19 31 29 2,4-Dinitrotoluene 32.43 49-120 11 40.00 81 Pentachlorophenol 80.00 67.20 84 39-120 8 28 P<u>yrene</u> <u>31.</u>79 79 40.00 48-120 30 3 Surrogate %REC Limits 2-Fluorophenol 40-120 65 Phenol-d5 67 38-120 40-120 2,4,6-Tribromophenol 102 Nitrobenzene-d5 67 48-120 2-Fluorobiphenyl 71 50-120

80

23-120

Analyzed:

07/18/07



	Dissolved Cal	ifornia Title 26	5 Metals	
Lab #:	195957	Project#:	STANDARD	
Client:	LFR Levine Fricke			
Field ID:	TW-5	Diln Fac:	1.000	
Lab ID:	195957-001	Sampled:	07/12/07	
Matrix:	Filtrate	Received:	07/12/07	
Units:	ug/L			

Analyte	Result	RL	Batch#	Prepared	Analyzed		Prep	Analysis
Antimony	ND	10	127328	07/17/07	07/17/07	EPA	3010A	EPA 6010B
Arsenic	ND	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA 6010B
Barium	280	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA 6010B
Beryllium	ND	2.0	127328	07/17/07	07/17/07	EPA	3010A	EPA 6010B
Cadmium	ND	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA 6010B
Chromium	ND	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA 6010B
Cobalt	ND	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA 6010B
Copper	ND	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA 6010B
Lead	ND	3.0	127328	07/17/07	07/17/07	EPA	3010A	EPA 6010B
Mercury	ND	0.20	127271	07/16/07	07/16/07	METI	HOD	EPA 7470A
Molybdenum	ND	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA 6010B
Nickel	ND	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA 6010B
Selenium	ND	10	127328	07/17/07	07/17/07	EPA	3010A	EPA 6010B
Silver	ND	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA 6010B
Thallium	ND	10	127328	07/17/07	07/17/07	EPA	3010A	EPA 6010B
Vanadium	ND	5.0	127328	07/17/07	07/17/07	EPA	3010A	EPA 6010B
Zinc	30	20	127328	07/17/07	07/17/07	EPA	3010A	EPA 6010B



Lab #:	195957	Prep:	METHOD	
Client:	LFR Levine Fricke	Analysis:	EPA 7470A	
Project#:	STANDARD			
Analyte:	Mercury	Diln Fac:	1.000	
Type:	BLANK	Batch#:	127271	
Lab ID:	QC396345	Prepared:	07/16/07	
Matrix:	Water	Analyzed:	07/16/07	
Units:	ug/L			

Result	RL	
ND	0.20	



Dissolved California Title 26 Metals					
Lab #:	195957	Prep:	METHOD		
Client:	LFR Levine Fricke	Analysis:	EPA 7470A		
Project#:	STANDARD				
Analyte:	Mercury	Batch#:	127271		
Matrix:	Water	Prepared:	07/16/07		
Units:	ug/L	Analyzed:	07/16/07		
Diln Fac:	1.000				

Туре	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC396346	5.000	5.020	100	80-120		
BSD	QC396347	5.000	5.100	102	80-120	2	20



Tab #•	195957	Drager !	MERILOD
Lab #:		Prep:	METHOD
Client:	LFR Levine Fricke	Analysis:	EPA 7470A
Project#:	STANDARD		
Analyte:	Mercury	Batch#:	127271
Field ID:	ZZZZZZZZZ	Sampled:	07/13/07
MSS Lab ID:	195975-001	Received:	07/13/07
Matrix:	Water	Prepared:	07/16/07
Units:	ug/L	Analyzed:	07/16/07
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC396349	<0.02083	5.000	5.380	108	80-123		
MSD	QC396350		5.000	5.500	110	80-123	2	20



Dissolved California Title 26 Metals					
Lab #:	195957	Prep:	EPA 3010A		
Client:	LFR Levine Fricke	Analysis:	EPA 6010B		
Project#:	STANDARD				
Type:	BLANK	Diln Fac:	1.000		
Lab ID:	QC396613	Batch#:	127328		
Matrix:	Water	Prepared:	07/17/07		
Units:	ug/L	Analyzed:	07/17/07		

Analyte	Result	RL	
Antimony	ND	10	
Arsenic	ND	5.0	
Barium	ND	5.0	
Beryllium	ND	2.0	
Cadmium	ND	5.0	
Chromium	ND	5.0	
Cobalt	ND	5.0	
Copper	ND	5.0	
Lead	ND	3.0	
Molybdenum	ND	5.0	
Nickel	ND	5.0	
Selenium	ND	10	
Silver	ND	5.0	
Thallium	ND	10	
Vanadium	ND	5.0	
Zinc	ND	20	



Dissolved California Title 26 Metals					
Lab #: Client: Project#:	195957 LFR Levine Fricke STANDARD	Prep: Analysis:	EPA 3010A EPA 6010B		
Matrix: Units: Diln Fac:	Water ug/L 1.000	Batch#: Prepared: Analyzed:	127328 07/17/07 07/17/07		

Type: BS	Lab	ID: QC39	6614	
Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	490.2	98	80-120
Arsenic	100.0	98.40	98	80-120
Barium	2,000	1,969	98	80-120
Beryllium	50.00	53.58	107	80-120
Cadmium	50.00	50.37	101	80-120
Chromium	200.0	192.8	96	80-120
Cobalt	500.0	480.3	96	80-120
Copper	250.0	231.8	93	80-120
Lead	100.0	97.59	98	80-120
Molybdenum	400.0	385.3	96	80-120
Nickel	500.0	488.5	98	80-120
Selenium	100.0	100.6	101	80-120
Silver	50.00	48.79	98	80-120
Thallium	100.0	102.1	102	80-120
Vanadium	500.0	488.3	98	80-120
Zinc	500.0	505.7	101	80-120

Туре:	BSD	Lab ID	: QC396	615			
Ana	alyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony		500.0	493.8	99	80-120	1	20
Arsenic		100.0	98.72	99	80-120	0	20
Barium		2,000	1,993	100	80-120	1	20
Beryllium		50.00	54.31	109	80-120	1	20
Cadmium		50.00	50.87	102	80-120	1	20
Chromium		200.0	195.3	98	80-120	1	20
Cobalt		500.0	487.2	97	80-120	1	20
Copper		250.0	234.7	94	80-120	1	20
Lead		100.0	98.50	98	80-120	1	20
Molybdenum		400.0	389.1	97	80-120	1	20
Nickel		500.0	494.7	99	80-120	1	20
Selenium		100.0	102.1	102	80-120	1	20
Silver		50.00	49.84	100	80-120	2	20
Thallium		100.0	103.2	103	80-120	1	20
Vanadium		500.0	496.4	99	80-120	2	20
Zinc		500.0	512.3	102	80-120	1	20



Dissolved California Title 26 Metals						
Lab #:	195957	Prep:	EPA 3010A			
Client:	LFR Levine Fricke	Analysis:	EPA 6010B			
Project#:	STANDARD	—				
Field ID:	ZZZZZZZZZ	Batch#:	127328			
MSS Lab ID:	195996-001	Sampled:	07/16/07			
Matrix:	Water	Received:	07/16/07			
Units:	ug/L	Prepared:	07/17/07			
Diln Fac:	1.000	Analyzed:	07/17/07			

Type: MS		Lab ID:	QC396616		
Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	4.239	500.0	528.3	105	78-122
Arsenic	10.22	100.0	116.2	106	79-128
Barium	116.7	2,000	2,050	97	80-120
Beryllium	0.4010	50.00	55.29	110	80-122
Cadmium	<0.3555	50.00	50.10	100	80-121
Chromium	34.56	200.0	227.3	96	80-120
Cobalt	1.742	500.0	479.6	96	80-120
Copper	120.4	250.0	372.8	101	80-120
Lead	<1.150	100.0	89.51	90	70-120
Molybdenum	7.493	400.0	404.6	99	80-120
Nickel	25.49	500.0	502.3	95	78-120
Selenium	3.711	100.0	111.0	107	78-132
Silver	1.955	50.00	53.72	104	72-123
Thallium	<1.131	100.0	92.49	92	72-120
Vanadium	45.42	500.0	550.1	101	80-120
Zinc	107.6	500.0	614.0	101	80-124

Type: MSD	Lab ID:	QC39	6617			
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	531.6	105	78-122	1	20
Arsenic	100.0	116.5	106	79-128	0	20
Barium	2,000	2,078	98	80-120	1	20
Beryllium	50.00	55.40	110	80-122	0	20
Cadmium	50.00	49.91	100	80-121	0	20
Chromium	200.0	228.0	97	80-120	0	20
Cobalt	500.0	481.3	96	80-120	0	20
Copper	250.0	375.2	102	80-120	1	20
Lead	100.0	90.49	90	70-120	1	20
Molybdenum	400.0	408.8	100	80-120	1	20
Nickel	500.0	504.2	96	78-120	0	20
Selenium	100.0	113.7	110	78-132	2	20
Silver	50.00	54.61	105	72-123	2	20
Thallium	100.0	92.63	93	72-120	0	20
Vanadium	500.0	550.1	101	80-120	0	20
Zinc	500.0	619.3	102	80-124	1	20



LFR Levine Fricke	Project : 001-09567-01
1900 Powell Street	Location : Hanson Radum
Emeryville, CA 94608	Level : II

<u>Sample ID</u>	<u>Lab ID</u>
3S/1E 10D8	196218-001
3S/1E 10N3	196218-002
3S/1E 10K2	196218-003
MW-10	196218-004
TB-072507	196218-005

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Signature: Project Manager Signature:

Operations Manager

signature.

Date: 07/31/2007

Date: 07/31/2007

NELAP # 01107CA

Page 1 of ____



CASE NARRATIVE

Laboratory number: Client: Project: Location: Request Date: Samples Received: 196218 LFR Levine Fricke 001-09567-01 Hanson Radum 07/25/07 07/25/07

This hardcopy data package contains sample and QC results for five water samples, requested for the above referenced project on 07/25/07. The samples were received cold and intact. All data were e-mailed to Katrin Schliewen on 07/26/07.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

Low recovery was observed for 1,1-dichloroethene in the MSD for batch 127592; the parent sample was not a project sample, and the BS/BSD were within limits. High RPD was also observed for 1,1-dichloroethene in the MS/MSD for batch 127592; the RPD was acceptable in the BS/BSD, and this analyte was not detected at or above the RL in the associated sample. 1,2,3-trichlorobenzene and 1,2,4-trichlorobenzene were detected between the MDL and the RL in the method blank for batch 127592 and the method blank for batch 127594; these analytes were not detected in samples at or above the RL. No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):

No analytical problems were encountered.

Metals (EPA 6020 and EPA 7470A):

No analytical problems were encountered.



		Total I	Extracta	able Hydroc	arboi	ns
Lab #:	196218			Location:		Hanson Radum
Client:	LFR Levine F	ricke		Prep:		EPA 3520C
Project#:	001-09567-01			Analysis:		EPA 8015B
Matrix:	Water			Sampled:		07/25/07
Units:	ug/L			Received:		07/25/07
Diln Fac:	1.000			Prepared:		07/25/07
Batch#:	127596			Analyzed:		07/26/07
Field ID:	3S/1E 10D8			Lab ID:		196218-001
Туре:	SAMPLE					
An	alyte		Result		RL	
Diesel C10-C2	4	NE)		50	
Motor Oil C24	-C36	NE)		300	
	rogate	%REC	Limits			
Hexacosane		100	61-134			
Field ID: Type:	3S/1E 10N3 SAMPLE			Lab ID:		196218-002
An	alyte		Result		RL	
Diesel C10-C2	4	NE)		50	
Motor Oil C24	-C36	NE)		300	
Sur	rogate	%REC	Limits			
Hexacosane	IOgace	110	61-134			
lichaeoballe		110	01 151			
Field ID: Type:	3S/1E 10K2 SAMPLE			Lab ID:		196218-003
An	alyte		Result		RL	
Diesel C10-C2		NE			50	
Motor Oil C24		NE)		300	
	rogate	%REC	Limits			
Hexacosane		99	61-134			



		Total I	Extracta	able Hydrod	arbo	ns	
T = 1- 11 +							
Lab #:	196218			Location:		Hanson Radum	
Client:	LFR Levine F			Prep:		EPA 3520C	
Project#:	001-09567-01			Analysis:		EPA 8015B	
Matrix:	Water			Sampled:		07/25/07	
Units:	ug/L			Received:		07/25/07	
Diln Fac:	1.000			Prepared:		07/25/07	
Batch#:	127596			Analyzed:		07/26/07	
Field ID: Type:	MW-10 SAMPLE			Lab ID:		196218-004	
	alyte		Result		RL		
Diesel C10-C2		NI)		50		
Motor Oil C24	-C36	NE)		300		
Sur	rogate	%REC	Limits				
Hexacosane		96	61-134				
Type:	BLANK			Lab ID:		QC397819	
An	alyte		Result		RL		
Diesel C10-C2	4	NE)		50		
Motor Oil C24	-C36	NI)		300		
Sur	rogate	%REC	Limits				
Hexacosane		116	61-134				
iichaeobaiie			<u> </u>				



	Т	otal 1	Extracta	ble Hydrocarbo	ns			
Lab #:	196218			Location:	Hanson Radum			
Client:	LFR Levine Fr	icke		Prep:	EPA 3520C			
Project#:	001-09567-01			Analysis:	EPA 8015B			
Matrix:	Water			Batch#:	127596			
Units:	ug/L			Prepared:	07/25/07			
Diln Fac:	1.000			Analyzed:	07/26/07			
Type: Lab ID:	BS QC397820			Cleanup Method:	EPA 3630C			
Ana	lyte		Spiked	Result	%REC	Limits		
Diesel C10-C24			2,500	2,461	98	58-130		
Surr	ogate	%REC	Limits					
Hexacosane		115	61-134					
Type: Lab ID:	BSD QC397821			Cleanup Method:	EPA 3630C			
	lyte		Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24			2,500	2,634	105	58-130	7	27
Surr	ogate	%REC	Limits					
Hexacosane		124	61-134					



	Purgeable Org	anics by GC/MS	
Lab #:	196218	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-01	Analysis:	EPA 8260B
Field ID:	TB-072507	Batcĥ#:	127592
Lab ID:	196218-005	Sampled:	07/25/07
Matrix: Units: Diln Fac:	Water ug/L 1.000	Received: Analyzed:	07/25/07 07/25/07

Analyte	Result	RL	
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	0.6 J	1.0	
Chloroethane	ND 0.00	1.0	
Trichlorofluoromethane	ND	1.0	
Acetone	ND ND	10	
Freon 113	ND	5.0	
		0.5	
1,1-Dichloroethene	ND	5.0	
Methylene Chloride	ND		
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene	ND	0.5	
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND		
		0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
Styrene	ND	0.5	
Bromoform	ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
	112	v	

J= Estimated value ND= Not Detected RL= Reporting Limit Page 1 of 2



	Purgeable	Organics by GC	/MS
Lab #: 196218		Location:	Hanson Radum
	evine Fricke	Prep:	EPA 5030B
	9567-01	Analysis:	EPA 8260B
Field ID: TB-072		Batch#:	127592
Lab ID: 196218	3-005	Sampled:	07/25/07
Matrix: Water		Received:	07/25/07
Units: ug/L		Analyzed:	07/25/07
Diln Fac: 1.000			
Analyte	Resu	Lt 1	RL
4-Chlorotoluene	ND		0.5
tert-Butylbenzene	ND		0.5
1,2,4-Trimethylbenzene	ND		0.5
sec-Butylbenzene	ND		0.5
para-Isopropyl Toluene	ND		0.5
1,3-Dichlorobenzene	ND		0.5 0.5
1,4-Dichlorobenzene	ND		0.5
n-Butylbenzene	ND ND		0.5
1,2-Dichlorobenzene			0.5
1,2-Dibromo-3-Chloropro 1,2,4-Trichlorobenzene	ND ND		0.5
Hexachlorobutadiene	ND		0.5
Naphthalene	ND		2.0
1,2,3-Trichlorobenzene	ND		0.5
1,2,5 IIICIIIOIODEIIZEIIE	ND		0.5
Surrogate	%REC Lim	its	
Dibromofluoromethane	103 80-1		
1,2-Dichloroethane-d4	102 79-1	134	
Toluene-d8	101 80-1	120	
Bromofluorobenzene	111 80-3	122	

J= Estimated value ND= Not Detected RL= Reporting Limit Page 2 of 2



	Purgeable Org	anics by GC/MS	
Lab #:	196218	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-01	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	127592
Units:	ug/L	Analyzed:	07/25/07
Diln Fac:	1.000		

Type:

BS

Spiked	Result	%REC	Limits
25.00	25.76	103	80-132
25.00	25.85	103	80-120
25.00	25.29	101	80-120
25.00	28.19	113	80-120
25.00	24.63	99	80-120
	25.00 25.00 25.00 25.00	25.00 25.76 25.00 25.85 25.00 25.29 25.00 28.19	25.00 25.76 103 25.00 25.85 103 25.00 25.29 101 25.00 28.19 113

Lab ID: QC397804

Surrogate	%REC	Limits	
Dibromofluoromethane	102	80-123	
1,2-Dichloroethane-d4	96	79-134	
Toluene-d8	100	80-120	
Bromofluorobenzene	101	80-122	

Type:

BSD

Lab ID:

QC397805

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	21.89	88	80-132	16	20
Benzene	25.00	22.88	92	80-120	12	20
Trichloroethene	25.00	22.03	88	80-120	14	20
Toluene	25.00	25.21	101	80-120	11	20
Chlorobenzene	25.00	21.74	87	80-120	12	20
Surrogate	%REC Limits					

5		
Dibromofluoromethane	101	80-123
1,2-Dichloroethane-d4	96	79-134
Toluene-d8	101	80-120
Bromofluorobenzene	102	80-122



	Purgeable Organics by GC/MS						
Lab #:	196218	Location:	Hanson Radum				
Client:	LFR Levine Fricke	Prep:	EPA 5030B				
Project#:	001-09567-01	Analysis	EPA 8260B				
Type: Lab ID:	BLANK	Diln Fac:	1.000				
	QC397806	Batch#:	127592				
Matrix:	Water	Analyzed:	07/25/07				
Units:	ug/L						

Analyte	Result	RL	
Freon 12	ND	1.0	
Chloromethane	ND	1.0	
Vinyl Chloride	ND	0.5	
Bromomethane	ND	1.0	
Chloroethane	ND	1.0	
Trichlorofluoromethane	ND	1.0	
Acetone	ND ND	1.0	
Freon 113			
	ND	0.5	
1,1-Dichloroethene	ND	0.5	
Methylene Chloride	ND	5.0	
Carbon Disulfide	ND	0.5	
MTBE	ND	0.5	
trans-1,2-Dichloroethene	ND	0.5	
Vinyl Acetate	ND	10	
1,1-Dichloroethane	ND	0.5	
2-Butanone	ND	10	
cis-1,2-Dichloroethene	ND	0.5	
2,2-Dichloropropane	ND	0.5	
Chloroform	ND	0.5	
Bromochloromethane	ND	0.5	
1,1,1-Trichloroethane	ND	0.5	
1,1-Dichloropropene	ND	0.5	
Carbon Tetrachloride	ND	0.5	
1,2-Dichloroethane	ND	0.5	
Benzene	ND	0.5	
Trichloroethene		0.5	
	ND		
1,2-Dichloropropane	ND	0.5	
Bromodichloromethane	ND	0.5	
Dibromomethane	ND	0.5	
4-Methyl-2-Pentanone	ND	10	
cis-1,3-Dichloropropene	ND	0.5	
Toluene	ND	0.5	
trans-1,3-Dichloropropene	ND	0.5	
1,1,2-Trichloroethane	ND	0.5	
2-Hexanone	ND	10	
1,3-Dichloropropane	ND	0.5	
Tetrachloroethene	ND	0.5	
Dibromochloromethane	ND	0.5	
1,2-Dibromoethane	ND	0.5	
Chlorobenzene	ND	0.5	
1,1,1,2-Tetrachloroethane	ND	0.5	
Ethylbenzene	ND	0.5	
m,p-Xylenes	ND	0.5	
o-Xylene	ND	0.5	
	ND	0.5	
Styrene Bromoform	ND ND	1.0	
Isopropylbenzene	ND	0.5	
1,1,2,2-Tetrachloroethane	ND	0.5	
1,2,3-Trichloropropane	ND	0.5	
Propylbenzene	ND	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	

J= Estimated value ND= Not Detected RL= Reporting Limit Page 1 of 2



		irgeabl	e Organics by		
Lab #:	196218		Location:	Hanson Radum	
Client:	LFR Levine Fric	ke	Prep:	EPA 5030B	
Project#:	001-09567-01		Analysis:	EPA 8260B	
Type:	BLANK		Diln Fac:	1.000	
Lab ID:	QC397806		Batch#:	127592	
Matrix:	Water		Analyzed:	07/25/07	
Units:	ug/L				
Analy		Res	ult	RL	
4-Chlorotoluene		ND		0.5	
tert-Butylbenzer		ND		0.5	
1,2,4-Trimethyll		ND		0.5	
sec-Butylbenzen		ND		0.5	
para-Isopropyl		ND		0.5	
1,3-Dichloroben		ND		0.5	
1,4-Dichloroben	zene	ND		0.5	
n-Butylbenzene		ND		0.5	
1,2-Dichloroben		ND		0.5	
1,2-Dibromo-3-C		ND		0.5	
1,2,4-Trichloro		ND		0.5	
Hexachlorobutad	lene	ND		0.5	
Naphthalene		ND		2.0	
1,2,3-Trichloro	benzene		0.3 J	0.5	

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-123
1,2-Dichloroethane-d4	100	79-134
Toluene-d8	100	80-120
Bromofluorobenzene	109	80-122

J= Estimated value ND= Not Detected RL= Reporting Limit Page 2 of 2



	Purgeable	e Organics by GC	'ms	
Lab #:	196218	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Field ID:	ZZZZZZZZZ	Batch#:	127592	
MSS Lab ID:	196196-001	Sampled:	07/23/07	
Matrix:	Water	Received:	07/24/07	
Units:	ug/L	Analyzed:	07/25/07	
Diln Fac:	1.000			

Type:

MS

Lab ID: QC397882

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1169	25.00	27.27	109	80-139
Benzene	<0.06286	25.00	25.68	103	80-123
Trichloroethene	0.1668	25.00	26.08	104	75-129
Toluene	<0.1220	25.00	25.55	102	80-122
Chlorobenzene	<0.1069	25.00	23.81	95	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-123
1,2-Dichloroethane-d4	99	79-134
Toluene-d8	101	80-120
Bromofluorobenzene	101	80-122

Type: MSD		Lab ID: QC	397883		
Analyte	Spiked	Result	%REC	Limits RPD	Lim
1,1-Dichloroethene	25.00	19.85	79 *	80-139 31 *	20
Benzene	25.00	25.12	100	80-123 2	20
Trichloroethene	25.00	25.51	101	75-129 2	20
Toluene	25.00	24.63	99	80-122 4	20
Chlorobenzene	25.00	23.17	93	80-120 3	20
Surrogate	%REC Limits				
Dibromofluoromethane	104 80-123				
1 2-Dichloroothano-d/	09 70-13/				

Dibromofluoromethane	104	80-123
1,2-Dichloroethane-d4	98	79-134
Toluene-d8	102	80-120
Bromofluorobenzene	102	80-122

*= Value outside of QC limits; see narrative RPD= Relative Percent Difference Page 1 of 1



	Gas	oline by GC/MS		
Lab #: Client: Project#: Field ID: Lab ID: Matrix: Units: Diln Fac:	196218 LFR Levine Fricke 001-09567-01 3S/1E 10D8 196218-001 Water ug/L 1.000	Location: Prep: Analysis: Batch#: Sampled: Received: Analyzed:	Hanson Radum EPA 5030B EPA 8260B 127594 07/25/07 07/25/07 07/25/07	

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
	ND	0.5
Methyl tert-Amyl Ether (TAME) Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND ND	0.5
1,1-Dichloroethene	ND ND	0.5
	ND ND	10
Methylene Chloride		
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5 0.5
Ethylbenzene	ND	
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5



	Gasolin	e by GC/MS	
Lab #: 196218		Location:	Hanson Radum
Client: LFR Levine Fr	icke	Prep:	EPA 5030B
Project#: 001-09567-01		Analysis:	EPA 8260B
Field ID: 3S/1E 10D8		Batch#:	127594
Lab ID: 196218-001		Sampled	07/25/07
Matrix: Water		Received:	07/25/07
Units: ug/L		Analyzed:	07/25/07
Diln Fac: 1.000			
Analyte	Result		RL
Propylbenzene	ND		0.5
Bromobenzene	ND		0.5
1,3,5-Trimethylbenzene	ND		0.5
2-Chlorotoluene	ND		0.5
4-Chlorotoluene	ND		0.5
tert-Butylbenzene	ND		0.5
1,2,4-Trimethylbenzene	ND		0.5
sec-Butylbenzene	ND		0.5
para-Isopropyl Toluene	ND		0.5
1,3-Dichlorobenzene	ND		0.5
1,4-Dichlorobenzene	ND		0.5
n-Butylbenzene	ND		0.5
1,2-Dichlorobenzene	ND		0.5
1,2-Dibromo-3-Chloropropane	ND		2.0
1,2,4-Trichlorobenzene	ND		0.5
Hexachlorobutadiene	ND		0.5
Naphthalene	ND		2.0
1,2,3-Trichlorobenzene	ND		0.5
Surrogate	%REC Limits		
Dibromofluoromethane	96 80-123		
1,2-Dichloroethane-d4	104 79-134		
Toluene-d8	98 80-120		
Bromofluorobenzene	105 80-122		



Gasoline by GC/MS				
Lab #: Client: Project#: Field ID: Lab ID: Matrix: Units: Diln Fac:	196218 LFR Levine Fricke 001-09567-01 3S/1E 10N3 196218-002 Water ug/L 1.000	Location: Prep: Analysis: Batch#: Sampled: Received: Analyzed:	Hanson Radum EPA 5030B EPA 8260B 127594 07/25/07 07/25/07 07/25/07	

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
	ND	0.5
Methyl tert-Amyl Ether (TAME) Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND ND	0.5
1,1-Dichloroethene	ND ND	0.5
	ND ND	10
Methylene Chloride		
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5



	Gasolin	e by GC/MS	
Lab #: 196218		Location:	Hanson Radum
Client: LFR Levine Fr	ricke	Prep:	EPA 5030B
Project#: 001-09567-01		Analysis:	EPA 8260B
Field ID: 3S/1E 10N3		Batch#:	127594
Lab ID: 196218-002		Sampled	07/25/07
Matrix: Water		Received:	07/25/07
Units: ug/L		Analyzed:	07/25/07
Diln Fac: 1.000			
Analyte	Result		RL
Propylbenzene	ND		0.5
Bromobenzene	ND		0.5
1,3,5-Trimethylbenzene	ND		0.5
2-Chlorotoluene	ND		0.5
4-Chlorotoluene	ND		0.5
tert-Butylbenzene	ND		0.5
1,2,4-Trimethylbenzene	ND		0.5
sec-Butylbenzene	ND		0.5
para-Isopropyl Toluene	ND		0.5
1,3-Dichlorobenzene	ND		0.5
1,4-Dichlorobenzene	ND		0.5
n-Butylbenzene	ND		0.5
1,2-Dichlorobenzene	ND		0.5
1,2-Dibromo-3-Chloropropane	ND		2.0
1,2,4-Trichlorobenzene	ND		0.5
Hexachlorobutadiene	ND ND		0.5 2.0
Naphthalene 1,2,3-Trichlorobenzene	ND		0.5
1,2,3-IIICHIOLODEHZEHE	עוו		0.5
Surrogate	%REC Limits		
Dibromofluoromethane	97 80-123		
1,2-Dichloroethane-d4	103 79-134		
Toluene-d8	101 80-120		
Bromofluorobenzene	105 80-122		



Gasoline by GC/MS				
Lab #: Client: Project#: Field ID: Lab ID: Matrix: Units:	196218 LFR Levine Fricke 001-09567-01 3S/1E 10K2 196218-003 Water ug/L	Location: Prep: Analysis: Batch#: Sampled: Received: Analyzed:	Hanson Radum EPA 5030B EPA 8260B 127594 07/25/07 07/25/07 07/25/07	
Diln Fac:	1.000			

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND ND	0.5
1,1-Dichloroethene		0.5
	ND	10
Methylene Chloride	ND	
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
1,2,5 IIICHIOLOPIOPAHE		0.5



	Gasolin	e by GC/MS	
Lab #: 196218		Location:	Hanson Radum
Client: LFR Levine Fr	icke	Prep:	EPA 5030B
Project#: 001-09567-01		Analysis:	EPA 8260B
Field ID: 3S/1E 10K2		Batch#:	127594
Lab ID: 196218-003		Sampled:	07/25/07
Matrix: Water		Received:	07/25/07
Units: ug/L		Analyzed:	07/25/07
Diln Fac: 1.000			
Analyte	Result ND		
Propylbenzene Bromobenzene	ND ND		0.5 0.5
1,3,5-Trimethylbenzene	ND ND		0.5
2-Chlorotoluene	ND		0.5
4-Chlorotoluene	ND		0.5
tert-Butylbenzene	ND		0.5
1,2,4-Trimethylbenzene	ND		0.5
sec-Butylbenzene	ND		0.5
para-Isopropyl Toluene	ND		0.5
1,3-Dichlorobenzene	ND		0.5
1,4-Dichlorobenzene	ND		0.5
n-Butylbenzene	ND		0.5
1,2-Dichlorobenzene	ND		0.5
1,2-Dibromo-3-Chloropropane	ND		2.0
1,2,4-Trichlorobenzene	ND		0.5
Hexachlorobutadiene	ND		0.5
Naphthalene	ND		2.0
1,2,3-Trichlorobenzene	ND		0.5
Surrogate	%REC Limits		
Dibromofluoromethane	98 80-123		
1,2-Dichloroethane-d4	100 79-134		
Toluene-d8	97 80-120		
Bromofluorobenzene	104 80-122		



Gasoline by GC/MS			
Lab #: Client: Project#:	196218 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B
Field ID: Lab ID: Matrix: Units: Diln Fac:	MW-10 196218-004 Water ug/L 1.000	Batch#: Sampled: Received: Analyzed:	127594 07/25/07 07/25/07 07/25/07

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
	ND ND	0.5
o-Xylene Styropo	ND ND	0.5
Styrene Bromoform	ND ND	1.0
	ND ND	0.5
Isopropylbenzene		0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5



	Gasolin	by GC/MS	
Lab #: 196218			Hanson Radum
Client: LFR Levine Fr	ricke	- L	EPA 5030B
Project#: 001-09567-01			EPA 8260B
Field ID: MW-10			127594
Lab ID: 196218-004			07/25/07
Matrix: Water			07/25/07
Units: ug/L		Analyzed:	07/25/07
Diln Fac: 1.000			
Analyte	Result	RL	
Propylbenzene	ND Result	0.5	
Bromobenzene	ND	0.5	
1,3,5-Trimethylbenzene	ND	0.5	
2-Chlorotoluene	ND	0.5	
4-Chlorotoluene	ND	0.5	
tert-Butylbenzene	ND	0.5	
1,2,4-Trimethylbenzene	ND	0.5	
sec-Butylbenzene	ND	0.5	
para-Isopropyl Toluene	ND	0.5	
1,3-Dichlorobenzene	ND	0.5	
1,4-Dichlorobenzene	ND	0.5	
n-Butylbenzene	ND	0.5	
1,2-Dichlorobenzene	ND	0.5	
1,2-Dibromo-3-Chloropropane	ND	2.0	
1,2,4-Trichlorobenzene	ND	0.5	
Hexachlorobutadiene	ND	0.5	
Naphthalene	ND	2.0	
1,2,3-Trichlorobenzene	ND	0.5	
Surrogate Dibromofluoromethane	%REC Limits		
	97 80-123 104 79-134		
1,2-Dichloroethane-d4 Toluene-d8	104 79-134 99 80-120		
Bromofluorobenzene	100 80-120 100 80-122		
BLOMOLIUOLODEHZEHE	100 00-122		



	Gasoline	e by GC/MS	
Lab #: Client: Project#:	196218 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B
Matrix: Units: Diln Fac:	Water ug/L 1.000	Batch#: Analyzed:	127594 07/25/07

Type: BS			Lab ID:	QC3	97811		
Analyte		Spiked		Result	%REC	Limits	
tert-Butyl Alcohol (TBA)		125.0		112.2	90	68-132	
Isopropyl Ether (DIPE)		25.00		19.99	80	65-120	
Ethyl tert-Butyl Ether (ETBE)		25.00		20.71	83	75-124	
Methyl tert-Amyl Ether (TAME)		25.00		24.56	98	77-120	
1,1-Dichloroethene		25.00		24.16	97	80-132	
Benzene		25.00		25.20	101	80-120	
Trichloroethene		25.00		25.59	102	80-120	
Toluene		25.00		27.12	108	80-120	
Chlorobenzene		25.00		25.47	102	80-120	
Surrogate	%REC	Limits					
Dibromofluoromethane	94	80-123					
1,2-Dichloroethane-d4	103	79-134					

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Dibromofluoromethane	94	80-123
1,2-Dichloroethane-d4	103	79–134
Toluene-d8	98	80-120
Bromofluorobenzene	98	80-122

Type: BSD			Lab ID:	QC39	7812			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)		125.0		106.4	85	68-132	5	20
Isopropyl Ether (DIPE)		25.00		18.91	76	65-120	6	20
Ethyl tert-Butyl Ether (ETBE)		25.00		19.08	76	75-124	8	20
Methyl tert-Amyl Ether (TAME)		25.00		23.58	94	77-120	4	20
1,1-Dichloroethene		25.00		22.44	90	80-132	7	20
Benzene		25.00		23.09	92	80-120	9	20
Trichloroethene		25.00		23.50	94	80-120	9	20
Toluene		25.00		25.12	100	80-120	8	20
Chlorobenzene		25.00		24.03	96	80-120	6	20
Surrogate	%REC	Limits						
Dibromofluoromethane	93	80-123						
1,2-Dichloroethane-d4	100	79-134						
Toluene-d8	98	80-120						
Bromofluorobenzene	99	80-122						



	Gasc	line by GC/MS		
Lab #:	196218	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	EPA 5030B	
Project#:	001-09567-01	Analysis:	EPA 8260B	
Matrix:	Water	Batch#:	127594	
Units:	ug/L	Analyzed:	07/25/07	
Diln Fac:	1.000			

Type:

Bromofluorobenzene

BS

Lab ID:

QC397813

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	943.9	94	70-130

Surrogate	%REC	Limits
Dibromofluoromethane 9	94	80-123
1,2-Dichloroethane-d4 1	100	79-134
Toluene-d8 9	98	80-120
Bromofluorobenzene	99	80-122

Туре:	BSD			Lab ID:	QC3	97814			
	Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Gasoline C	7-C12		1,000		831.4	83	70-130	13	20
	Surrogate	%REC	Limits						
Dibromoflu	oromethane	94	80-123						
1,2-Dichlo	roethane-d4	100	79-134						
Toluene-d8		100	80-120						

80-122

99



	Gase	oline by GC/MS		
Lab #: Client: Project#:	196218 LFR Levine Fricke 001-09567-01	Location: Prep: Analysis:	Hanson Radum EPA 5030B EPA 8260B	
Type: Lab ID: Matrix: Units:	BLANK QC397815 Water ug/L	Diln Fac: Batch#: Analyzed:	1.000 127594 07/25/07	

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Freon 12	ND	1.0
Chloromethane	ND	$\frac{1}{1.0}$
Vinyl Chloride	ND	0.5
Isopropyl Ether (DIPE)	ND	0.5
Bromomethane	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	0.5
Methyl tert-Amyl Ether (TAME)	ND	0.5
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	0.5
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	5.0
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND ND	0.5
	ND ND	0.5
o-Xylene	ND ND	0.5
Styrene	ND ND	1.0
Bromoform		
Isopropylbenzene	ND	0.5 0.5
1,1,2,2-Tetrachloroethane	ND	0.5

J= Estimated value ND= Not Detected RL= Reporting Limit

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		asoline	by GC/MS	
	6218		Location:	Hanson Radum
Client: LF	R Levine Fricke		Prep:	EPA 5030B
	1-09567-01		Analysis:	EPA 8260B
	ANK		Diln Fac:	1.000
	397815		Batch#:	127594
	ter		Analyzed:	07/25/07
Units: ug	/L			
Analyte		Result		RL
1,2,3-Trichloroprop				0.5
Propylbenzene	ND			0.5
Bromobenzene	ND			0.5
1,3,5-Trimethylbenz				0.5
2-Chlorotoluene	ND			0.5
4-Chlorotoluene	ND			0.5
tert-Butylbenzene	ND			0.5
1,2,4-Trimethylbenz				0.5
sec-Butylbenzene	ND			0.5
para-Isopropyl Tolu				0.5
1,3-Dichlorobenzene				0.5
1,4-Dichlorobenzene				0.5
n-Butylbenzene	ND			0.5
1,2-Dichlorobenzene				0.5
1,2-Dibromo-3-Chlor				0.5 0.5
1,2,4-Trichlorobenz		0.4 J		0.5
Hexachlorobutadiene	ND			0.5
Naphthalene	ND			2.0
1,2,3-Trichlorobenz	ene ND			0.5
Surrogate	%REC	Limits		
Dibromofluoromethan	e 93	80-123		
1,2-Dichloroethane-		79-134		
Toluene-d8	101	80-120		
Bromofluorobenzene	106	80-122		



Sen	ivolatile	Organics by	GC/MS
Lab #: 196218 Client: LFR Levine Fric	20	Location:	Hanson Radum EPA 3520C
Project#: 001-09567-01	76	Prep: Analysis:	EPA 8270C
Field ID: 3S/1E 10D8		Batch#:	127624
Lab ID: 196218-001		Sampled:	07/25/07
Matrix: Water		Received:	07/25/07
Units: ug/L		Prepared:	07/25/07
Diln Fac: 1.000		Analyzed:	07/26/07
Analyte	Result ND		<u>PL</u> 9.4
N-Nitrosodimethylamine Phenol	ND		9.4
bis(2-Chloroethyl)ether	ND		9.4
2-Chlorophenol	ND		9.4
1,3-Dichlorobenzene	ND		9.4
1,4-Dichlorobenzene	ND		9.4
Benzyl alcohol	ND		9.4
1,2-Dichlorobenzene	ND		9.4
2-Methylphenol	ND		9.4
bis(2-Chloroisopropyl) ether	ND		9.4
4-Methylphenol	ND		9.4
N-Nitroso-di-n-propylamine	ND		9.4
Hexachloroethane	ND		9.4
Nitrobenzene	ND		9.4
Isophorone	ND		9.4
2-Nitrophenol	ND		19
2,4-Dimethylphenol	ND		9.4
Benzoic acid	ND		47
bis(2-Chloroethoxy)methane	ND		9.4
2,4-Dichlorophenol	ND		9.4
1,2,4-Trichlorobenzene Naphthalene	ND ND		9.4 9.4
4-Chloroaniline	ND ND		9.4
Hexachlorobutadiene	ND		9.4
4-Chloro-3-methylphenol	ND		9.4
2-Methylnaphthalene	ND		9.4
Hexachlorocyclopentadiene	ND		19
2,4,6-Trichlorophenol	ND		9.4
2,4,5-Trichlorophenol	ND		9.4
2-Chloronaphthalene	ND		9.4
2-Nitroaniline	ND		19
Dimethylphthalate	ND		9.4
Acenaphthylene	ND		9.4
2,6-Dinitrotoluene	ND		9.4
3-Nitroaniline	ND		19
Acenaphthene	ND		9.4
2,4-Dinitrophenol	ND		19
4-Nitrophenol	ND ND		19 9.4
Dibenzofuran 2,4-Dinitrotoluene	ND ND		9.4
Diethylphthalate	ND ND		9.4
Fluorene	ND		9.4
4-Chlorophenyl-phenylether	ND		9.4
4-Nitroaniline	ND		19
4,6-Dinitro-2-methylphenol	ND		19
N-Nitrosodiphenylamine	ND		9.4
Azobenzene	ND		9.4
4-Bromophenyl-phenylether	ND		9.4
Hexachlorobenzene	ND		9.4
Pentachlorophenol	ND		19
Phenanthrene	ND		9.4
Anthracene	ND		9.4
Di-n-butylphthalate	ND		9.4
Fluoranthene	ND		9.4



	2	Semivol	atile (Organics by	GC/MS	
	196218			Location:	Hanson Radum	
	LFR Levine Fr	ricke		Prep:	EPA 3520C	
	001-09567-01			Analysis:	EPA 8270C	
	3S/1E 10D8			Batch#:	127624	
	196218-001 Water			Sampled: Received:	07/25/07 07/25/07	
	uq/L			Prepared:	07/25/07	
	1.000			Analyzed:	07/26/07	
Dim rac.	1.000			Anaryzeu	01/20/01	
Analyte	9	F	lesult		RL	
Pyrene		ND			9.4	
Butylbenzylphthala		ND			9.4	
3,3'-Dichlorobenz:		ND			19	
Benzo(a)anthracene	9	ND			9.4	
Chrysene		ND	0.5		9.4	
bis(2-Ethylhexyl)	phthalate		25		9.4	
Di-n-octylphthalat		ND			9.4	
Benzo(b)fluoranthe		ND			9.4 9.4	
Benzo(k)fluoranthe	ene	ND ND			9.4	
Benzo(a)pyrene Indeno(1,2,3-cd)py	mono	ND ND			9.4 9.4	
Dibenz(a,h)anthrad		ND			9.4	
Benzo(g,h,i)peryle		ND			9.4	
		ND			J . 1	
Surrogat	te	%REC	Limits			
2-Fluorophenol		68	40-120			
Phenol-d5	_	68	38-120			
2,4,6-Tribromopher	nol	85	40-120			
Nitrobenzene-d5		69	48-120			
2-Fluorobiphenyl		75	50-120			
Terphenyl-d14		69	23-120			



Lab #: 196218 Location: Hanson Radum Client: LFR Levine Fricke Prep: EPA 8270C Field ID: 13/1E 1003 Batch#: 12/624 Lab LI: 14810-002 Samired: 07/25/07 Wits: Wet20-002 Samired: 07/25/07 Diln Fac: 1.000 Analyzed: 07/25/07 Mutrosodimethylamine ND 9.4 Phenol ND 3.4 Diln Fac: 1.000 Analyzed: 07/25/07 Mairs: 0.00 3.4 07/25/07 Diln Fac: 1.000 9.4 07/25/07 Mairs: ND 9.4 07/25/07 Diln Fac: ND 9.4 07/25/07 Samirs: ND 9.4 07/25/07 Diln Fac: ND 9.4 07/25/07 Samirs: ND 9.4 07/25/07 Samirs: ND 9.4 07/25/07 Samirs: ND 9.4 07/25/07		Semivolatile	Organics by	GC/MS
Client: LFR Levine Fricke Prep: EPA 8270C Field ID: 35/1E 1003 BatChH: 127624 Lab ID: 196218-002 Sampled: 07/25/07 Matrix: Water Received: 07/25/07 Matrix: Water Received: 07/26/07 Diles: ug/L Prepared: 07/26/07 Mitrosodimethylamine ND 9.4 Dis[2-Chloroethyl]ether ND 9.4 2-Chlorophenal ND 9.4 1.3-Dichlorobenzene ND 9.4 2-Chlorosoprophil ND 9.4 1.2-Dichlorobenzene ND 9.4 N'NTtrobenzene ND 9.4 N'Nobis(2-Chlorosthane			-	
Project#: 001-09567-01 Analysis: PPA 8270C Lab ID: 195218-002 Sampled: 07/25/07 Matrix: Water Received: 07/25/07 Units: ug/L Prepared: 07/25/07 Din Fac: 1.000 Analyzei: 07/25/07 Nutrosodimethylamine ND 9.4 Phenol ND 9.4 Precodimethylamine ND 9.4 1.3-Dichorobenzene ND 9.4 1.4-Dichlorobenzene ND 9.4 2-Mitrophenol ND 9.4 2-Nitrosodi-n-propylamine ND 9.4		ricko		
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DiethylphthalateND9.4FluoreneND9.44-Chlorophenyl-phenyletherND9.44-NitroanilineND194,6-Dinitro-2-methylphenolND19				
FluoreneND9.44-Chlorophenyl-phenyletherND9.44-NitroanilineND194,6-Dinitro-2-methylphenolND19				
4-Chlorophenyl-phenyletherND9.44-NitroanilineND194,6-Dinitro-2-methylphenolND19	Fluorene			9.4
4,6-Dinitro-2-methylphenol ND 19	4-Chlorophenyl-phenylether	ND		9.4
4,6-Dinitro-2-methylphenol ND 19	4-Nitroaniline			
	4,6-Dinitro-2-methylphenol			
	N-Nitrosodiphenylamine	ND		9.4
Azobenzene ND 9.4				
4-Bromophenyl-phenyletherND9.4HexachlorobenzeneND9.4	Hevachlorobenzono			
Pentachlorophenol ND 9.4				
Phenanthrene ND 9.4				
Anthracene ND 9.4				
Di-n-butylphthalate ND 9.4				
Fluoranthene ND 9.4		ND		



	Semivolatile	Organics by	GC/MS	
Lab #: 196218		Location:	Hanson Radum	
	vine Fricke	Prep:	EPA 3520C	
	567-01	Analysis:	EPA 8270C	
Field ID: 3S/1E		Batch#:	127624	
Lab ID: 196218	-002	Sampled	07/25/07	
Matrix: Water		Received:	07/25/07	
Units: ug/L		Prepared:	07/25/07	
Diln Fac: 1.000		Analyzed:	07/26/07	
Analyte	Result		RL	
Pyrene	ND		9.4	
Butylbenzylphthalate	ND		9.4	
3,3 [°] -Dichlorobenzidine	ND		19	
Benzo(a)anthracene	ND		9.4	
Chrysene	ND		9.4	
bis(2-Ethylhexyl)phthal	ate ND		9.4	
Di-n-octylphthalate	ND		9.4	
Benzo(b)fluoranthene	ND		9.4	
Benzo(k)fluoranthene	ND		9.4	
Benzo(a)pyrene	ND		9.4	
Indeno(1,2,3-cd)pyrene	ND		9.4	
Dibenz(a,h)anthracene	ND		9.4	
Benzo(g,h,i)perylene	ND		9.4	
Gummogata	%REC Limits			
Surrogate 2-Fluorophenol	77 40-120			
Phenol-d5	72 38-120			
2,4,6-Tribromophenol	72 38-120 78 40-120			
Nitrobenzene-d5	78 48-120			
2-Fluorobiphenyl	71 50-120			
Terphenyl-d14	74 23-120			



	ivolatile	Organics by	
Lab #: 196218		Location:	Hanson Radum
Client: LFR Levine Fric	ke	Prep:	EPA 3520C
Project#: 001-09567-01		Analysis:	EPA 8270C
Field ID: 3S/1E 10K2		Batch#:	127624
Lab ID: 196218-003		Sampled:	07/25/07
Matrix: Water		Received:	07/25/07
Units: ug/L		Prepared:	07/25/07
Diln Fac: 1.000		Analyzed:	07/26/07
DIIII Fac: 1.000		Analyzeu	07/20/07
Analyte	Result		RL
N-Nitrosodimethylamine	ND		9.4
Phenol	ND		9.4
bis(2-Chloroethyl)ether	ND		9.4
2-Chlorophenol	ND		9.4
			9.4
1,3-Dichlorobenzene	ND		9.4
1,4-Dichlorobenzene	ND		
Benzyl alcohol	ND		9.4
1,2-Dichlorobenzene	ND		9.4
2-Methylphenol	ND		9.4
bis(2-Chloroisopropyl) ether	ND		9.4
4-Methylphenol	ND		9.4
N-Nitroso-di-n-propylamine	ND		9.4
Hexachloroethane	ND		9.4
Nitrobenzene	ND		9.4
Isophorone	ND		9.4
2-Nitrophenol	ND		19
2,4-Dimethylphenol	ND		9.4
Benzoic acid	ND		47
bis(2-Chloroethoxy)methane	ND		9.4
2,4-Dichlorophenol	ND		9.4
1,2,4-Trichlorobenzene	ND		9.4
Naphthalene	ND		9.4
4-Chloroaniline	ND		9.4
Hexachlorobutadiene	ND		9.4
4-Chloro-3-methylphenol	ND		9.4
2-Methylnaphthalene	ND		9.4
Hexachlorocyclopentadiene	ND		19
2,4,6-Trichlorophenol	ND		9.4
2,4,5-Trichlorophenol	ND		9.4
2-Chloronaphthalene	ND		9.4
2-Nitroaniline			19
	ND		
Dimethylphthalate	ND		9.4
Acenaphthylene	ND		9.4
2,6-Dinitrotoluene	ND		9.4
3-Nitroaniline	ND		19
Acenaphthene	ND		9.4
2,4-Dinitrophenol	ND		19
4-Nitrophenol	ND		19
Dibenzofuran	ND		9.4
2,4-Dinitrotoluene	ND		9.4
Diethylphthalate	ND		9.4
Fluorene	ND		9.4
4-Chlorophenyl-phenylether	ND		9.4
4-Nitroaniline	ND		19
4,6-Dinitro-2-methylphenol	ND		19
N-Nitrosodiphenylamine	ND		9.4
Azobenzene	ND		9.4
4-Bromophenyl-phenylether	ND		9.4
Hexachlorobenzene	ND		9.4
Pentachlorophenol	ND		19
Phenanthrene	ND		9.4
Anthracene	ND		9.4
Di-n-butylphthalate	ND		9.4
Fluoranthene	ND		9.4
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	Semi	volatile	Organics by	GC/MS	
	96218		Location:	Hanson Radum	
	FR Levine Fricke	9	Prep:	EPA 3520C	
	01-09567-01		Analysis:	EPA 8270C	
	S/1E 10K2		Batch#:	127624	
	96218-003		Sampled	07/25/07	
	ater		Received:	07/25/07	
	g/L		Prepared:	07/25/07	
Diln Fac: 1	.000		Analyzed:	07/26/07	
Analyte		Result		RL	
Pyrene		ND		9.4	
Butylbenzylphthala	te	ND		9.4	
3,3'-Dichlorobenzi		ND		19	
Benzo(a)anthracene		ND		9.4	
Chrysene		ND		9.4	
bis(2-Ethylhexyl)p		ND		9.4	
Di-n-octylphthalat		ND		9.4	
Benzo(b)fluoranthe		ND		9.4	
Benzo(k)fluoranthe	ne	ND		9.4	
Benzo(a)pyrene		ND		9.4	
Indeno(1,2,3-cd)py		ND		9.4	
Dibenz(a,h)anthrac		ND		9.4	
Benzo(g,h,i)peryle	ne	ND		9.4	
Surrogat	o %	REC Limits			
2-Fluorophenol	75	<u>40-120</u>			
Phenol-d5	72	38-120			
2,4,6-Tribromophen		40-120			
Nitrobenzene-d5	79	48-120			
2-Fluorobiphenyl	73	50-120			
Terphenyl-d14	71	23-120			



Lab #: 195216 Location: Hanson Radum Cilent: LFR Levine Pricke Pregist: EDA 3520C Projecti: 001-0355/-01 Analyzi: EDA 3520C Lab D1: 195218-004 Sampled: D7/25/07 Matrix: Water Received: 07/25/07 Matrix: Water Received: 07/25/07 Din Fac: 1.000 Analyzed: 07/25/07 Matrix: Water No 9.4 Phenol 9.4 Phenol 9.4 Din Corberbyl)ether ND 9.4 L: Dickicobargene ND<	Se	emivolatile	Organics by GC/MS
Project#: 001-09567-01 Analysis: EPA 8270C Lab D: 196218-004 Batchi: 127624 Lab D: 196218-004 Sampled: 07/25/07 Diln Fac: 1400 Pepace: 07/25/07 Diln Fac: 1400 Pepace: 07/26/07 Natyte Result Result Result Phenol 0.4 ND 3.4 Phenol 3.4 ND 3.4 Phenol 3.4 ND 3.4 1.4-Dichlorobenzene ND 9.4 1.4-Dichlorobenzene 1.2-Dichlorobenzene ND 9.4 1.2-Dichlorobenzene 1.2-Dichlorobenzene ND 9.4 1.2-Dichlorobenzene ND 9.4 1.2-Dichlorobenzene ND 9.4 1.4-Dichlorobenzene ND 9.4 1.2-Dichlorobenzene ND 1.2-Dichlorobenzene ND 9.4 1.2-Dichlorobenzene ND 1.2-Dichlorobenzene ND 9.4 1.2-Dichlorobenzene ND			Location: Hanson Radum
Tield ID: NM-10 Batch:: 127624 Lab D: 136218-004 Sampled: 07/25/07 Matrix: Water Bacclived: 07/25/07 Diln Fac: 1.00 Prepared: 07/25/07 Diln Fac: 1.00 Naiyzed: 07/26/07 N=Mirosoclimethylamine ND 3.4 Phenol ND 9.4 1.3-Dichlorobenzene ND 9.4 1.4-Dichlorobenzene ND 9.4 </td <td></td> <td>cke</td> <td>Prep: EPA 3520C</td>		cke	Prep: EPA 3520C
Lab ID: 195218-004 Sampled: 07/25/07 Watrix: Watr Received: 07/25/07 Diln Fac: 1.000 Analyzed: 07/25/07 Analyze Result NL Prepared: 07/25/07 Analyzed: 07/25/07 Analyzed: 07/25/07 Analyzed: 07/25/07 Phenol 9.4 9.4 Diarophenol ND 9.4 2-Chlorophenol ND 9.4 1.4 - Dichlorophenzene ND 9.4 2-Methylphenol ND 9.4 Hanger ND 9.4 2-Methylphenol ND 9.4 Hexachloropethane ND 9.4 Hexachloropethane ND 9.4 Hexachloropethane ND 9.4 Nitrobenzene ND 9.4 Lapothylphenol ND 9.4 2.4-Dimethylphenol ND 9.4 Nitrobenzene ND 9.4 Lapothylphenol N	Project#: 001-09567-01		Analysis: EPA 8270C
Matrix: Water Recèived: 07/25/07 Din Fac: 1.000 Analyzed: 07/25/07 Din Fac: 1.000 Analyzed: 07/25/07 Immediate trylamine ND 9.4 Tevitrosodimethylamine ND 9.4 Chlorosthyl)ether ND 9.4 1.4-Dichlorobenzene ND 9.4 Hitrosodimethylphenol ND 9.4 Hexachlorochane ND 9.4 Hitrobenzene ND 9.4 Hitrobenzene ND 9.4 1.2.4-Dichlorochane ND 9.4 2.4-Dichlorophenol ND 9.4 1.2.4-Dichlorophenol			Batch#: 127624
Units: ug/L Prepared: 07/26/07 Nalyce Result N PNitosodimethylamine ND 9.4 PNitosodimethylamine ND 9.4 1:302 ND 9.4 2-Chlorophenol ND 9.4 1:3-Dichlorobenzene ND 9.4 1:3-Dichlorobenzene ND 9.4 1:A-Dichlorobenzene ND 9.4 1:A-Dichlorobenzene ND 9.4 1:A-Dichlorobenzene ND 9.4 Nettryphenol ND 9.4 N=Nitroscin-propylamine ND 9.4 Hexachloroethane ND 9.4 Hexachloroethane ND 9.4 Hexachloroethane ND 9.4 Jointorethane ND 9.4 Jointorethane ND 9.4 Hexachloroethane ND 9.4 Jointorethany/methane ND 9.4 J.2,4-Trichlorobenzene ND 9.4 J.2,4-Frichloro	Lab ID: 196218-004		Sampled: 07/25/07
Din Fac: 1.000 Analyzed: 07/26/07 Analyte Result Rt Phenol ND 9.4 Discontinethylenter ND 9.4 1.3-Dichlorobenzene ND 9.4 1.4-Dichlorobenzene ND 9.4 1.4-Dichlorobenzene ND 9.4 Benzyl alcohol ND 9.4 1.3-Dichlorobenzene ND 9.4 Henzyl alcohol ND 9.4 Holicobrockinsching ND 9.4 Holicobrozene ND 9.4 Hildobrozene ND 9.4 Storophenol ND 9.4 L-4-Dichloroethaxylmethane ND 9.4 Holicobrozenzene ND 9.4 L-4-Dichlorophenol	Matrix: Water		Received: 07/25/07
Analyte Result Rt M-Nitrosodimethylamine ND 9.4 Dhenol ND 9.4 Dis(2-Clorosthyl)ether ND 9.4 1.3-Dicfilorobenzene ND 9.4 Hardinoversene ND 9.4 L1.4-Dicfilorobenzene ND 9.4 Enzyl alcohol ND 9.4 1.3-Dicfilorobenzene ND 9.4 Z-Methylphenol ND 9.4 Hit/2-Clloroisopropyl ether ND 9.4 Hexachloroethane ND 9.4 Hexachloroethane ND 9.4 Hexachloroethane ND 9.4 Hexachloroethane ND 9.4 Hexachlorophenol ND 9.4 S.4-Dimethylphenol ND 9.4 Hexachlorophenol ND 9.4 Hexachlorophenol ND 9.4 A-Chlorophenol ND 9.4 Hexachlorophenol ND 9.4 A-Chlorophenol ND </td <td>Units: ug/L</td> <td></td> <td>Prepared: 07/25/07</td>	Units: ug/L		Prepared: 07/25/07
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AnthraceneND9.4Di-n-butylphthalateND9.4			
Di-n-butylphthalate ND 9.4			
	FILOLAIICHEHE	עמ	7.1



	Semivolati	le Organics by	GC/MS	
	6218	Location:	Hanson Radum	
	R Levine Fricke	Prep:	EPA 3520C	
	1-09567-01	Analysis:	EPA 8270C	
	-10	Batch#:	127624	
	6218-004	Sampled:	07/25/07	
	ter	Received:	07/25/07	
Units: ug,		Prepared:	07/25/07	
Diln Fac: 1.0	000	Analyzed:	07/26/07	
			57	
Analyte	Resu	111	RL	
Pyrene	ND		9.4	
Butylbenzylphthalate	e ND		9.4 19	
3,3 ⁻ -Dichlorobenzid:	ine ND ND		9.4	
Benzo(a)anthracene Chrysene	ND ND		9.4	
bis(2-Ethylhexyl)pht			9.4	
Di-n-octylphthalate	ND ND		9.4	
Benzo(b)fluoranthene			9.4	
Benzo(k)fluoranthene			9.4	
	e ND ND		9.4	
Benzo(a)pyrene Indeno(1,2,3-cd)pyre			9.4	
Dibenz(a,h)anthrace			9.4	
Benzo(g,h,i)perylene			9.4	
Belizo(g, li, 1)peryrelle			9.1	
Surrogate	%REC Lim	nits		
2-Fluorophenol	74 40-	-120		
Phenol-d5	71 38-	-120		
2,4,6-Tribromopheno	l 74 40-	-120		
Nitrobenzene-d5		-120		
2-Fluorobiphenyl		-120		
Terphenyl-d14	70 23-	-120		



Se	mivolatile	Organics by	GC/M	1S
Lab #: 196218		Location:		Hanson Radum
Client: LFR Levine Frid	cke	Prep:		EPA 3520C
Project#: 001-09567-01		Analysis:		EPA 8270C
Type: BLANK		Diln Fac:		1.000
Lab ID: QC397939		Batch#:		127624
Matrix: Ŵater		Prepared:		07/25/07
Units: ug/L		Analyzed:		07/26/07
		1		
Analyte	Result		RL	
N-Nitrosodimethylamine	ND		10	
Phenol	ND		10	
bis(2-Chloroethyl)ether	ND		10	
2-Chlorophenol	ND		10	
1,3-Dichlorobenzene	ND		10	
1,4-Dichlorobenzene	ND		10	
Benzyl alcohol	ND		10	
1,2-Dichlorobenzene	ND		10	
2-Methylphenol	ND		10	
bis(2-Chloroisopropyl) ether	ND		10	
4-Methylphenol	ND		10	
N-Nitroso-di-n-propylamine	ND		10	
Hexachloroethane	ND		10	
Nitrobenzene	ND		10	
Isophorone	ND		10	
2-Nitrophenol	ND		20	
	ND		10	
2,4-Dimethylphenol Benzoic acid			50	
	ND		50 10	
bis(2-Chloroethoxy)methane	ND			
2,4-Dichlorophenol	ND		10	
1,2,4-Trichlorobenzene	ND		10 10	
Naphthalene	ND			
4-Chloroaniline	ND		10	
Hexachlorobutadiene	ND		10 10	
4-Chloro-3-methylphenol	ND			
2-Methylnaphthalene	ND		10	
Hexachlorocyclopentadiene	ND		20	
2,4,6-Trichlorophenol	ND		10	
2,4,5-Trichlorophenol	ND		10	
2-Chloronaphthalene	ND		10	
2-Nitroaniline	ND		20	
Dimethylphthalate	ND		10	
Acenaphthylene	ND		10	
2,6-Dinitrotoluene	ND		10	
3-Nitroaniline	ND		20	
Acenaphthene	ND		10	
2,4-Dinitrophenol	ND		20	
4-Nitrophenol	ND		20	
Dibenzofuran	ND		10	
2,4-Dinitrotoluene	ND		10	
Diethylphthalate	ND		10	
Fluorene	ND		10	
4-Chlorophenyl-phenylether	ND		10	
4-Nitroaniline	ND		20	
4,6-Dinitro-2-methylphenol	ND		20	
N-Nitrosodiphenylamine	ND		10	
Azobenzene	ND		10	
4-Bromophenyl-phenylether	ND		10	
Hexachlorobenzene	ND		10	
Pentachlorophenol	ND		20	
Phenanthrene	ND		10	
Anthracene	ND		10	
Di-n-butylphthalate	ND		10	
Fluoranthene	ND		10	

ND= Not Detected RL= Reporting Limit

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		Semivol	atile C	rganics by	GC/I	
	196218			Location:		Hanson Radum
	LFR Levine Fr	lcke		Prep:		EPA 3520C
	<u>001-09567-01</u> BLANK			<u>Analysis:</u> Diln Fac:		EPA 8270C 1.000
	2C397939			Batch#:		127624
	Water			Prepared:		07/25/07
	lacer lack			Analyzed:		07/26/07
Analyte	9		Result		RL	
Pyrene		ND			10	
Butylbenzylphthala		ND			10 20	
3,3'-Dichlorobenz: Benzo(a)anthracene		ND ND			20 10	
Chrysene	5	ND			10	
bis(2-Ethylhexyl)	phthalate	ND			10	
Di-n-octylphthala		ND			10	
Benzo(b)fluoranthe		ND			10	
Benzo(k)fluoranthe	ene	ND			10	
Benzo(a)pyrene		ND			10	
Indeno(1,2,3-cd)py		ND			10	
Dibenz(a,h)anthrad		ND			10	
Benzo(g,h,i)peryle	ene	ND			10	
Surrogat	te	%REC	Limits			
2-Fluorophenol		82	40-120			
Phenol-d5		88	38-120			
2,4,6-Tribromopher	nol	92	40-120			
Nitrobenzene-d5		90	48-120			
2-Fluorobiphenyl		87	50-120			
Terphenyl-d14		82	23-120			



Semivolatile Organics by GC/MS					
Lab #:	196218	Location:	Hanson Radum		
Client:	LFR Levine Fricke	Prep:	EPA 3520C		
Project#:	001-09567-01	Analysis:	EPA 8270C		
Matrix:	Water	Batch#:	127624		
Units:	ug/L	Prepared:	07/25/07		
Diln Fac:	1.000	Analyzed:	07/26/07		

Type: BS			Lab ID:	QC39	7940	
Analyte		Spiked		Result	%REC	Limits
Phenol		80.00		62.76	78	47-120
2-Chlorophenol		80.00		66.09	83	52-120
1,4-Dichlorobenzene		40.00		34.87	87	41-120
N-Nitroso-di-n-propylamine		40.00		29.04	73	46-120
1,2,4-Trichlorobenzene		40.00		36.24	91	45-120
4-Chloro-3-methylphenol		80.00		67.94	85	52-120
Acenaphthene		40.00		33.26	83	52-120
4-Nitrophenol		80.00		61.64	77	46-120
2,4-Dinitrotoluene		40.00		36.51	91	49-120
Pentachlorophenol		80.00		72.44	91	39-120
Pyrene		40.00		31.70	79	48-120
Surrogate	%REC	Limits				
2-Fluorophenol	77	40-120				
Phenol-d5	81	38-120				
2,4,6-Tribromophenol	116	40-120				
Nitrobenzene-d5	80	48-120				
2-Fluorobiphenyl	83	50-120				
Terphenyl-d14	74	23-120				

Type: BSD			Lab ID:	QC39	7941			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Phenol		80.00		63.21	79	47-120	1	28
2-Chlorophenol		80.00		65.64	82	52-120	1	27
1,4-Dichlorobenzene		40.00		33.24	83	41-120	5	32
N-Nitroso-di-n-propylam	ine	40.00		30.42	76	46-120	5	28
1,2,4-Trichlorobenzene		40.00		33.46	84	45-120	8	29
4-Chloro-3-methylphenol		80.00		68.58	86	52-120	1	26
Acenaphthene		40.00		32.20	81	52-120	3	27
4-Nitrophenol		80.00		59.16	74	46-120	4	31
2,4-Dinitrotoluene		40.00		35.77	89	49-120	2	29
Pentachlorophenol		80.00		71.47	89	39-120	1	28
Pyrene		40.00		32.05	80	48-120	1	30
Gunna act a	8.DEC	Timita						
Surrogate	%REC	Limits						
2-Fluorophenol	//	40-120						
Phenol-d5	82	38-120						
2,4,6-Tribromophenol	106	40-120						
Nitrobenzene-d5	82	48-120						
2-Fluorobiphenyl	81	50-120						
Terphenyl-d14	73	23-120						



	Dissolv	ved Calif	ornia Ti	tle 26	Metals			
Lab #:	196218		Locati	on:	Hansor	n Radum		
Client:	LFR Levine Fricke	e	Prep:		METHOI	C		
Project#:	001-09567-01							
Field ID:	3S/1E 10D8		Units:		ug/L			
Lab ID:	196218-001		Sample	d:	07/25/	/07		
Matrix:	Filtrate		Receiv	ed:	07/25,	/07		
Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Analysis	
Antimony	ND	1.0	1.000		07/26/07			
Arsenic	1.2	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Barium	370	1.0	5.000	127634	07/25/07	07/25/07	EPA 6020	
Beryllium	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Cadmium	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Chromium	6.3	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Cobalt	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Copper	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Lead	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Mercury	0.63	0.20	1.000	127647	07/26/07	07/26/07	EPA 7470A	
Molybdenum	1.2	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Nickel	1.3	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Selenium	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Silver	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Thallium	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Vanadium	3.4	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Zinc	8.0	5.0	1.000	127644	07/26/07	07/26/07	EPA 6020	



	Dissolve	ed Cali	fornia Ti	tle 26	Metals		
Lab #:	196218		Locati	on:	Hanson	n Radum	
Client:	LFR Levine Fricke		Prep:		METHOI	0	
Project#:	001-09567-01						
Field ID:	3S/1E 10N3		Units:		ug/L		
Lab ID:	196218-002		Sample	d:	07/25,	/07	
Matrix:	Filtrate		Receiv	ed:	07/25,	/07	
Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Arsenic	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Barium	260	1.0	5.000	127634	07/25/07	07/25/07	EPA 6020
Beryllium	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Cadmium	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Chromium	2.6	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Cobalt	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Copper	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Lead	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Mercury	ND	0.20	1.000	127647	07/26/07	07/26/07	EPA 7470A
Molybdenum	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Nickel	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Selenium	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Silver	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Thallium	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Vanadium	1.4	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Zinc	ND	5.0	5.000	127644	07/26/07	07/26/07	EPA 6020



	Dissolve	ed Califo	ornia Ti	tle 26	Metals			
Lab #:	196218		Locati	on:	Hanson	n Radum		
Client:	LFR Levine Fricke		Prep:		METHOI	0		
Project#:	001-09567-01							
Field ID:	3S/1E 10K2		Units:		ug/L			
Lab ID:	196218-003		Sample	d:	07/25,	/07		
Matrix:	Filtrate		Receive	ed:	07/25,	/07		
Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Analysis	
Antimony	ND	1.0	1.000		07/26/07	=	=	
Arsenic	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Barium	230	1.0	5.000	127634	07/25/07	07/25/07	EPA 6020	
Beryllium	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Cadmium	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Chromium	7.8	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Cobalt	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Copper	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Lead	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Mercury	0.42	0.20	1.000	127647	07/26/07	07/26/07	EPA 7470A	
Molybdenum	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Nickel	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Selenium	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Silver	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Thallium	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Vanadium	1.6	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020	
Zinc	ND	5.0	1.000	127644	07/26/07	07/26/07	EPA 6020	



	Dissol	ved Calif	ornia Ti	tle 26	Metals		
Lab #:	196218		Locati	on:	Hanson	n Radum	
Client:	LFR Levine Frick	e	Prep:		METHOI	0	
Project#:	001-09567-01						
Field ID:	MW-10		Units:		ug/L		
Lab ID:	196218-004		Sample	d:	07/25,	/07	
Matrix:	Filtrate		Receiv	ed:	07/25,	/07	
Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Arsenic	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Barium	230	1.0	5.000	127634	07/25/07	07/25/07	EPA 6020
Beryllium	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Cadmium	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Chromium	7.6	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Cobalt	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Copper	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Lead	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Mercury	0.33	0.20	1.000	127647	07/26/07	07/26/07	EPA 7470A
Molybdenum	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Nickel	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Selenium	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Silver	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Thallium	ND	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Vanadium	1.5	1.0	1.000	127644	07/26/07	07/26/07	EPA 6020
Zinc	ND	5.0	1.000	127644	07/26/07	07/26/07	EPA 6020



Dissolved California Title 26 Metals							
Lab #:	196218	Location:	Hanson Radum				
Client:	LFR Levine Fricke	Prep:	METHOD				
Project#:	001-09567-01	Analysis:	EPA 6020				
Analyte:	Barium	Diln Fac:	1.000				
Type:	BLANK	Batch#:	127634				
Lab ID:	QC397987	Prepared:	07/25/07				
Matrix:	Filtrate	Analyzed:	07/25/07				
Units:	ug/L						
D1+							

Result	RL	
ND	1.0	



Dissolved California Title 26 Metals							
Lab #:	196218	Location:	Hanson Radum				
Client:	LFR Levine Fricke	Prep:	METHOD				
Project#:	001-09567-01	Analysis:	EPA 6020				
Analyte:	Barium	Batch#:	127634				
Matrix:	Filtrate	Prepared:	07/25/07				
Units:	ug/L	Analyzed:	07/25/07				
Diln Fac:	1.000						

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC397988	100.0	103.0	103	80-120		
BSD	QC397989	100.0	98.23	98	80-120	5	20



			-	
Lab #:	196218	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	METHOD	
Project#:	001-09567-01	Analysis:	EPA 6020	
Analyte:	Barium	Batch#:	127634	
Field ID:	3S/1E 10D8	Sampled:	07/25/07	
MSS Lab ID:	196218-001	Received:	07/25/07	
Matrix:	Filtrate	Prepared:	07/25/07	
Units:	ug/L	Analyzed:	07/25/07	
Diln Fac:	5.000			

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC397990	367.0	100.0	466.1	99	73-125		
MSD	QC397991		100.0	475.7	109	73-125	2	20



Dissolved California Title 26 Metals							
Lab #:	196218	Location:	Hanson Radum				
Client:	LFR Levine Fricke	Prep:	METHOD				
Project#:	001-09567-01	Analysis:	EPA 6020				
Туре:	BLANK	Diln Fac:	1.000				
Lab ID:	QC398057	Batch#:	127644				
Matrix:	Filtrate	Prepared:	07/26/07				
Units:	ug/L	Analyzed:	07/26/07				

Analyte	Result	RL	
Antimony	ND	1.0	
Arsenic	ND	1.0	
Beryllium	ND	1.0	
Cadmium	ND	1.0	
Chromium	ND	1.0	
Cobalt	ND	1.0	
Copper	ND	1.0	
Lead	ND	1.0	
Molybdenum	ND	1.0	
Nickel	ND	1.0	
Selenium	ND	1.0	
Silver	ND	1.0	
Thallium	ND	1.0	
Vanadium	ND	1.0	
Zinc	ND	5.0	



	Dissolved Cal	lifornia Title 26	Metals	
Lab #:	196218	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	METHOD	
Project#:	001-09567-01	Analysis:	EPA 6020	
Matrix:	Filtrate	Batch#:	127644	
Units:	ug/L	Prepared:	07/26/07	
Diln Fac:	1.000	Analyzed:	07/26/07	

Type: BS	Lab	ID: QC398	3058	
Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	89.18	89	80-120
Arsenic	100.0	97.99	98	80-120
Beryllium	100.0	95.92	96	80-120
Cadmium	100.0	96.88	97	80-120
Chromium	100.0	97.41	97	80-120
Cobalt	100.0	98.27	98	80-120
Copper	100.0	98.14	98	80-120
Lead	100.0	96.76	97	80-120
Molybdenum	100.0	92.00	92	80-120
Nickel	100.0	98.27	98	80-120
Selenium	100.0	100.3	100	79-120
Silver	100.0	92.10	92	80-120
Thallium	50.00	49.90	100	80-120
Vanadium	100.0	97.81	98	80-120
Zinc	100.0	95.84	96	80-120

Type:	BSD		Lab ID:	QC398059				
An	alyte	Spiked	Result			Limits	RPD	Lim
Antimony		100.0	• ·	.94 88	-	30-120	1	20
Arsenic		100.0	97	.57 98	8	30-120	0	20
Beryllium		100.0	96	.07 96	8	30-120	0	20
Cadmium		100.0	95	.77 96	8	30-120	1	20
Chromium		100.0	97	.42 97	8	30-120	0	20
Cobalt		100.0	97	.60 98	8	30-120	1	20
Copper		100.0	96	.85 97	8	30-120	1	20
Lead		100.0	96	.05 96	8	30-120	1	20
Molybdenum		100.0	90	.79 91	8	30-120	1	20
Nickel		100.0	97	.77 98	8	30-120	1	20
Selenium		100.0	97	.48 97	7	79-120	3	20
Silver		100.0	91	.05 91	8	30-120	1	20
Thallium		50.00	49		-	30-120	1	20
Vanadium		100.0		.32 97	8	30-120	1	20
Zinc		100.0		.63 95	-	30-120	1	20



	Dissolved Cal	lifornia Title 26	Metals	
Lab #:	196218	Location:	Hanson Radum	
Client:	LFR Levine Fricke	Prep:	METHOD	
Project#:	001-09567-01	Analysis:	EPA 6020	
Field ID:	3S/1E 10D8	Batch#:	127644	
MSS Lab ID:	196218-001	Sampled:	07/25/07	
Matrix:	Filtrate	Received:	07/25/07	
Units:	ug/L	Prepared:	07/26/07	
Diln Fac:	5.000	Analyzed:	07/26/07	

Type: MS		Lab ID:	QC398060		
Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	0.1235	100.0	91.25	91	80-120
Arsenic	1.214	100.0	102.1	101	79-120
Beryllium	<0.01066	100.0	97.79	98	80-120
Cadmium	<0.008202	100.0	95.87	96	77-120
Chromium	6.262	100.0	102.9	97	77-120
Cobalt	0.04638	100.0	96.42	96	79-120
Copper	<0.03605	100.0	96.30	96	78-120
Lead	0.02065	100.0	91.79	92	80-120
Molybdenum	1.154	100.0	91.64	90	80-120
Nickel	1.275	100.0	98.03	97	75-120
Selenium	0.2970	100.0	104.1	104	69-120
Silver	<0.005482	100.0	88.07	88	73-120
Thallium	<0.003884	50.00	44.87	90	71-120
Vanadium	3.350	100.0	101.5	98	77-120
Zinc	7.970	100.0	96.14	88	61-125

Type: MSD	Lab II	D: QC398	061			
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	91.17	91	80-120	0	20
Arsenic	100.0	99.80	99	79-120	2	20
Beryllium	100.0	96.05	96	80-120	2	20
Cadmium	100.0	96.00	96	77-120	0	20
Chromium	100.0	102.9	97	77-120	0	20
Cobalt	100.0	96.65	97	79-120	0	20
Copper	100.0	96.44	96	78-120	0	20
Lead	100.0	91.98	92	80-120	0	20
Molybdenum	100.0	93.61	92	80-120	2	20
Nickel	100.0	97.85	97	75-120	0	20
Selenium	100.0	104.9	105	69-120	1	20
Silver	100.0	87.74	88	73-120	0	20
Thallium	50.00	44.80	90	71-120	0	20
Vanadium	100.0	101.0	98	77-120	0	20
Zinc	100.0	111.7	104	61-125	15	20



Dissolved Cal	lifornia Title 26	5 Metals	
196218	Location:	Hanson Radum	
LFR Levine Fricke	Prep:	METHOD	
001-09567-01	Analysis:	EPA 7470A	
Mercury	Diln Fac:	1.000	
BLANK	Batch#:	127647	
QC398067	Prepared:	07/26/07	
Water	Analyzed:	07/26/07	
uq/L			
	196218 LFR Levine Fricke 001-09567-01 Mercury BLANK QC398067 Water	196218Location:LFR Levine FrickePrep:001-09567-01Analysis:MercuryDiln Fac:BLANKBatch#:QC398067Prepared:WaterAnalyzed:	LFR Levine FrickePrep:METHOD001-09567-01Analysis:EPA 7470AMercuryDiln Fac:1.000BLANKBatch#:127647QC398067Prepared:07/26/07WaterAnalyzed:07/26/07

Result	RL	
ND	0.20	



	Dissolved Califor	rnia Title 26 M	etals
Lab #:	196218	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	001-09567-01	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	127647
Matrix:	Water	Prepared:	07/26/07
Units:	ug/L	Analyzed:	07/26/07
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC398068	5.000	5.210	104	80-120		
BSD	QC398069	5.000	5.280	106	80-120	1	20



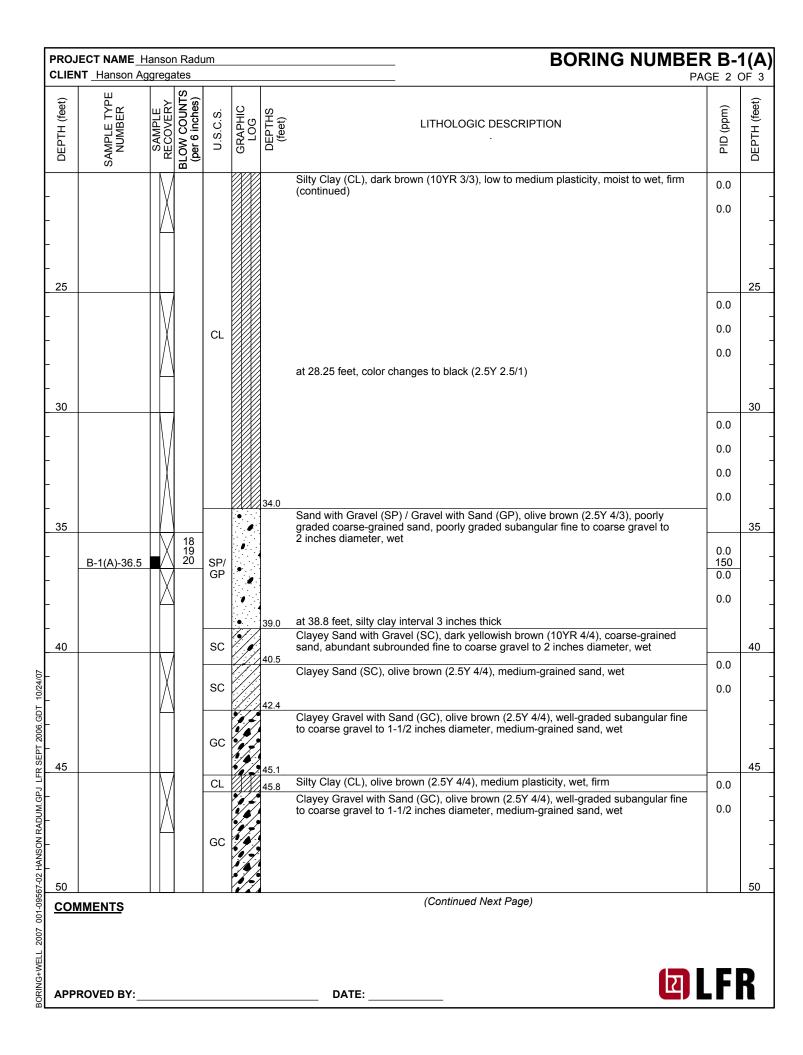
- 1	100010		
Lab #:	196218	Location:	Hanson Radum
Client:	LFR Levine Fricke	Prep:	METHOD
Project#:	001-09567-01	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	127647
Field ID:	ZZZZZZZZZ	Sampled:	07/25/07
MSS Lab ID:	196239-005	Received:	07/25/07
Matrix:	Filtrate	Prepared:	07/26/07
Units:	ug/L	Analyzed:	07/26/07
Diln Fac:	1.000		

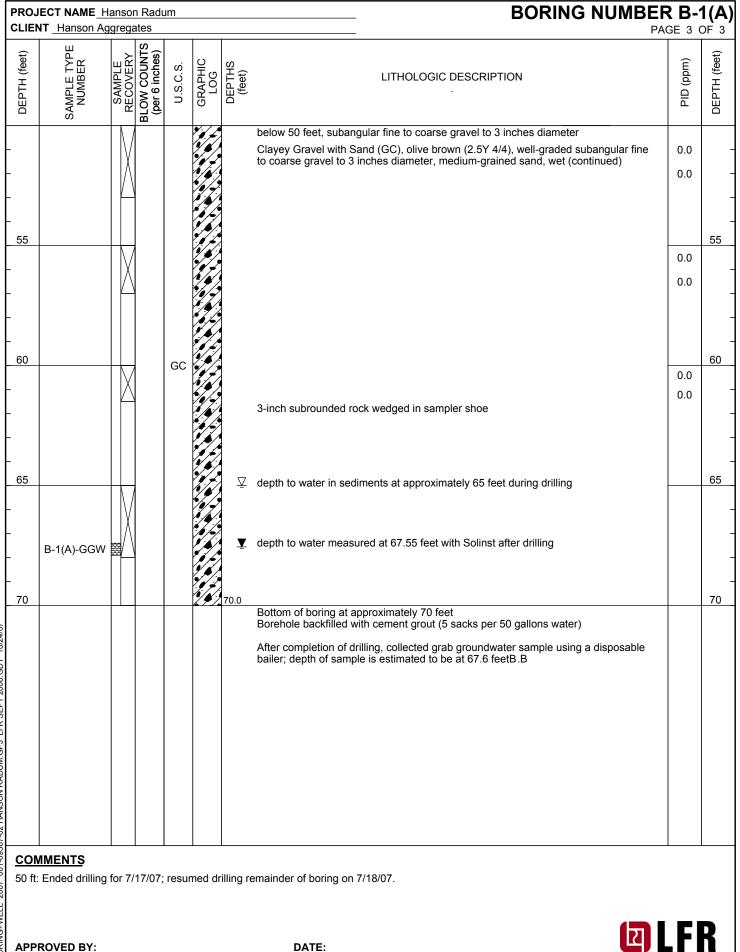
Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC398074	0.8730	5.000	5.780	98	80-123		
MSD	QC398075		5.000	5.400	91	80-123	7	20

APPENDIX C

Soil Boring Logs

PROJECT NAME_Hanson Radum CLIENT_Hanson Aggregates						BORING NUMBER	R B- '	1(A)
				usch F	Road, F	leasanton, California DRILLING CONTRACTOR HEW Drilling		0. 0
PROJ	ECT NUMBER	R <u>001</u>	-0956	7-02		DRILLING METHOD Hollow Stem Auger (CME 75)		
LOCA	TION Not rec	orded				STAMP (IF APPLICABLE) AND/OR NOTES		
SAMP	LING METHO	D_Ca	lifornia	a Mod	ified; c	ontinuous soil core		
GROL	JND ELEVATIO	ON N	ot ava	ilable		HOLE DIAMETER 8 inches		
ТОР С	OF CASING EL	EVA	TION	N/A		HOLE DEPTH 70.0 ft		
 ⊈ FIR		TERE	D WA	TER (65.0 ft			
I ST.	ABILIZED WA	TER	67.6 f	t				
LOGG	ED BY Larry	Lapu	yade		DA	TE _7/17/07 - 7/18/07		
								st)
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	S H LITHOLOGIC DESCRIPTION	PID (ppm)	DEPTH (feet)
EPTH	MPL	SAM	o N O er 6 i	U.S.	GRAI	CEP (fe) OIG	EPT
	SA	<u>۳</u>	В В С					
						Silty Gravel (GM), light yellowish brown (2.5Y 6/3), well-graded subangular fine to coarse gravel to 1-1/2 inches diameter, dry to moist		
		N	20 20 20	GM			0.0	_
		$\left \right\rangle$	20	-		3.0		
		ΙŇ	10 10			Silty Clay (CL), dark brown (10YR 3/3), low to medium plasticity, moist, firm	0.0	_
5	B-1(A)-4.5	\square	20 20 23			at 4 feet, color changes to black (5Y 2.5), odor of organic matter	0.0	5
		$\left \right\rangle$	-	-		at 5 feet, color changes to dark yellowish brown (10YR 3/4) at 5.5 feet, color changes to very dark brown (10YR 2/2)		-
		IХ	5 5 7				0.0	-
		\mathbb{N}	6 6				0.0	
-		+	9 6	-				-
10	B-1(A)-9.5	ΠX	11			at 9 feet, becomes very dark grayish brown (2.5Y 3/2), moist to wet, soft	0.0	10
							0.0	10
-		$ \rangle$		CL			0.0	-
74/01		ΙŇ					0.0	-
<u>è</u> -		$ \rangle$					0.0	-
						at 14.5 feet, becomes dark brown (10YR 3/3), firm		-
N <u>15</u>		11/					0.0	15
		$ \rangle$					0.0	-
		$ \rangle$				at 17.25 feet, trace fine to coarse gravel to 1-1/2 inches diameter	0.0	-
								-
	MENTS				<u>XXX</u>	(Continued Next Page)	<u> </u>	20
NG+WELL 2007 001-09967	ROVED BY:					DATE:	LFI	R

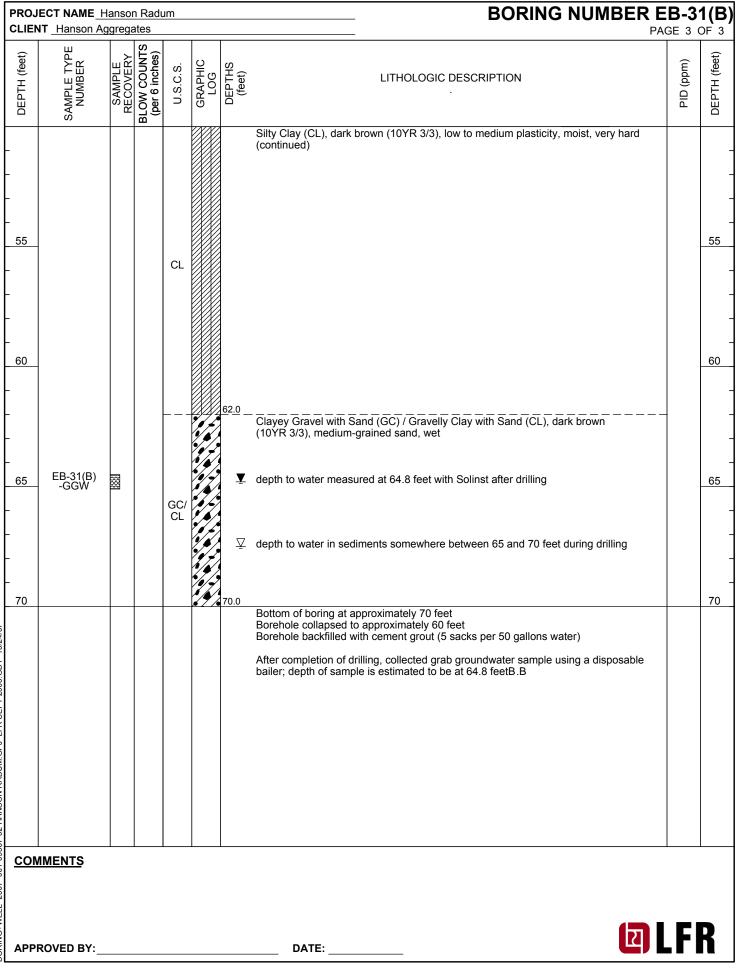




PROJECT NAME Hanson Radum CLIENT Hanson Aggregates								EB-3 AGE 1	
		0 0		usch R	load, F	Pleasanton, California	DRILLING CONTRACTOR HEW Drilling		01 2
						, 	DRILLING METHOD_Hollow Stem Auger (CME 75)		
LOC	ATION Not rec	orded	1				STAMP (IF APPLICABLE) AND/OR NOTES		
SAM	PLING METHO	D_Ca	lifornia	a Mod	ified d	riven with 140-lb hammer			
GRO		0N_N	lot ava	ilable		HOLE DIAMETER 8 inches			
ТОР	OF CASING EL	EVA		N/A		HOLE DEPTH 20.5 ft			
F		FERE	D WA	TER					
S	TABILIZED WA	TER_							
LOG	GED BY Larry	Lapu			DA	TE _7/17/07			
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)	LITHOLOGIC DESCRIPTION	PID (ppm)	DEPTH (feet)
				GM		Silty Gravel (GM), yello coarse gravel to 2 inche	wish brown (10YR 5/4), well-graded subangular fine to es diameter, moist		_
-			38 40 50	ML		Silt (ML), dark yellowish 2.5	n brown (10YR 3/4), dry to moist	0.0	_
F			13 13 16	CL		Silty Clay (CL), dark ye	llowish brown (10YR 3/4), medium plasticity, dry, very hard	0.0	-
5	EB-31(A)-5.5		18 13 9	ML		Silt (ML), dark yellowish	n brown (10YR 3/4), dry	0.0	5
E			4 7 5				llowish brown (10YR 4/6), medium plasticity, dry to moist,	0.0	_
-			5 5 7	CL		8.8		0.0	_
- 10	EB-31(A)-10.5		5 7 8	ML			n brown (10YR 4/6), dry to moist	0.0	10
$\frac{1}{2}$			7 7 9	CL			llowish brown (10YR 4/6), medium plasticity, moist, firm	0.0	
		X	5 7 8			13.0		0.0	
			5 8 11	ML			rellowish brown (10YR 4/6), nonplastic to low plasticity, moist	0.0	-
15	EB-31(A)-15.5		6 8 10	-		15.0 Silty Clay (CL), dark ye	llowish brown (10YR 4/6), medium plasticity, moist, firm	0.0	15
			5 7 8	CL				0.0	_
			5 8 14	-				0.0	-
20			5 6	ML		Clayey Silt (ML), dark y	rellowish brown (10YR 4/4), low plasticity, moist, firm (Continued Next Page)	0.0	20
NGTWELL 2007 001-09307	<u>MMENTS</u>					DATE:		LFI	R

PROJECT NAME Hanson Radum CLIENT Hanson Aggregates							BORING NUMBER	PAGE 1	
PROJECT LOCATION 3000 Busch Road, Pleasanton, California							DRILLING CONTRACTOR HEW Drilling		
PROJ	JECT NUMBER	001	-0956	7-02			DRILLING METHOD_Hollow Stem Auger (CME 75)		
LOCATION Not recorded							STAMP (IF APPLICABLE) AND/OR NOTES		
				a Mod	ified; c	ontinuous soil core			
GRO	UND ELEVATIO	<u></u> NC	lot ava	ilable		HOLE DIAMETER 8 inches			
TOP	OF CASING EL	.EVA		N/A		HOLE DEPTH 70.0 ft			
⊥ TIF	RST ENCOUNT	ERE	D WA	TER	67.5 ft				
⊈ ѕт	ABILIZED WA	TER	64.8 f	t					
LOGO	GED BY Larry	Lapu			DA	TE 7/16/07			
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)	LITHOLOGIC DESCRIPTION	PID (ppm)	DEPTH (feet)
-						Silty Gravel (GM) / Gra subangular fine gravel,	velly Silt (ML), olive brown (2.5Y 4/4), poorly graded moist	0.0	_
Ē				GM/ ML		at 1.5 to 5.ft. PID readir	ngs from auger cuttings	0.0	_
Ē								0.0	_
5						5.0			5
	EB-31(B)-5.5			ML		Clayey Silt (ML), dark b 6.0	prown (10YR 3/3), low plasticity, moist, firm	0.0	
		$\left \right $				Silt (ML), dark brown (1	IOYR 3/3), moist, no staining or odor		
				ML				0.0	
		IN		IVIL				0.0	_
_ 10						10.0			10
-	EB-31(B)-10.5			CL		Silty Clay (CL), dark bro	own (10YR 3/3), medium plasticity, moist, firm	0.0	-
_ 15	EB-31(B)-15.5		5						15
-			5 7 13		<i>(XX)</i> •	16.0 Sand with Gravel (SP),	olive brown (2.5Y 4/4), poorly graded fine-grained sand,	0.0	
-			8 12 8	SP		abundant subrounded f	tine gravel, moist	0.0	
F			3 5 10	CL		Silty Clay (CL), dark ye firm	llowish brown (10YR 4/4), low to medium plasticity, moist,	0.0	
20					XXX	at 20 feet, becomes ve	ry hard (Continued Next Page)		20
	ROVED BY:					DATE:		LF	R

	JECT NAME_H NT_Hanson Ag			um			BORING NUMBER E	B-3 GE 2 (1(B) DF 3
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)	LITHOLOGIC DESCRIPTION	PID (ppm)	DEPTH (feet)
-	EB-31(B)-20.5		3 3 3				Silty Clay (CL), dark yellowish brown (10YR 4/4), low to medium plasticity, moist, very hard (continued) at 21.5 feet, start logging from auger cuttings	0.0	
- - _ <u>25</u>	-						at about 25 feet, color changes to dark brown (10YR 3/3)		- - 25
-									-
<u>30</u> -	-								30 -
- - _ 35	-			CL					- 35
-									-
40									40 _
45	-								- _
									-
50 <u>COI</u>	MMENTS	1	<u> </u>	<u> </u>	<u> </u>	1	(Continued Next Page)	I	50
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BORING+WELL 2007 001-09567-02 HANSON RADUM.GPJ LFR SEPT 2006.GDT 10/24/07

	IECT NAME_H NT_Hanson Ag			um				EB-3 AGE 1	1(C) OF 1
		0 0		isch R	Road, F	Pleasanton, California	DRILLING CONTRACTOR HEW Drilling		
PRO.		<u>001</u>	-0956	7-02			DRILLING METHOD Hollow Stem Auger (CME 75)		
LOCA	TION Not rec	orded					STAMP (IF APPLICABLE) AND/OR NOTES		
SAMI	LING METHO	D_Ca	llifornia	a Mod	ified d	riven with 140-lb hammer			
GRO	JND ELEVATIO	N_N	ot ava	ilable		HOLE DIAMETER 8 inches			
ТОР	OF CASING EL	EVA	TION_	N/A		HOLE DEPTH 20.0 ft			
FI		ERE	D WA	TER					
ST	ABILIZED WA	TER_							
LOG	GED BY Larry	Lapu			DA	TE _7/16/07			
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)	LITHOLOGIC DESCRIPTION	PID (ppm)	DEPTH (feet)
			35		¥/_	0.6 Gravel fill over asphalt Clavey Gravel (GC), ol	concrete ive brown (2.5Y 4/4), poorly graded subangular fine gravel,		_
			35 35 16	GC		2.0 moist		0.0	
		N	8 10	SP		3.0	5/1), poorly graded fine- to coarse-grained sand, dry	0.0	_
			14 5	CL			rown (10YR 3/3), medium plasticity, moist, very hard		-
5	EB-31(C)-5		10 11		XX.	at 4.5 feet, dry intervals 5.0 at 5 feet, water in bore		0.0	5
Ļ									_
-						[No sampling from 5 to	8 feet due to obstruction; see comment below]		-
-			5	ML		8.0 8.7 Silt (ML), dark olive bro	own (2.5Y 3/3), moist		
-		ΙŇ	5 5 6				ive brown (2.5Y 3/3), medium plasticity, moist, soft	0.0	
10	EB-31(C)-10.5		3 4 5	CL				0.0	10
-			-			11.5			
10,44			3 6 7	-		moist, firm	L), dark olive brown (2.5Y 3/3), low to medium plasticity,	0.0	
≧- 5			333					0.0	_
15		\mathbb{N}	4	-				0.0	15
	EB-31(C)-15.5		10	ML/				0.0	- 10 -
			3 6 6	CL				0.0	
			6 9 9					0.0	-
			6 6 7	-		Bottom of boring at app	proximately 20 feet	0.0	-
20 5 CO	EB-31(C)-20					20.0 Borehole backfilled with	h cement grout (5 sacks per 50 gallons water)		20
5 ft:	Pounded from {	5 to 6	feet; r	no rec	overy	because encountered metal wi one wire from auger. Drilled to	re at base of borehole at approximately 6 feet.		
5		natery	0018		cicpiic		o root to roourite admpility.		
							5		D
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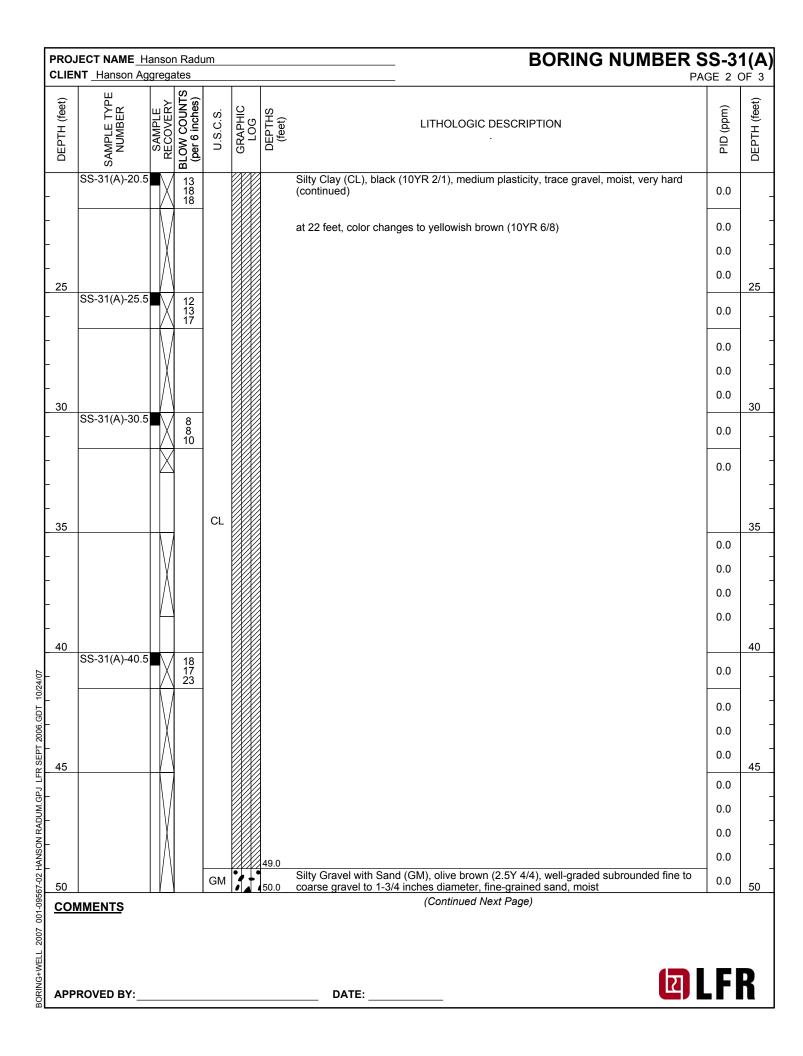
	IECT NAME_H			um			BORING NUMBER E	B-3 GE 1	5(A) OF 1
PROJ		DN _30	000 Bi	usch F	Road, F	Pleasanton, California	DRILLING CONTRACTOR HEW Drilling		
PROJ		R <u>001</u>	-0956	7-02			DRILLING METHOD Hollow Stem Auger (CME 75)		
LOCA	TION Not rec	ordec	ł				STAMP (IF APPLICABLE) AND/OR NOTES		
SAMF	LING METHO	D_Ca	alifornia	a Mod	ified d	riven with 140-lb hammer	_		
GROU		0N_N	lot ava	ailable		HOLE DIAMETER 8 inches	_		
тор о	OF CASING EI	EVA		N/A		HOLE DEPTH 10.5 ft	_		
FIF	RST ENCOUN	TERE	D WA	TER_			_		
5т	ABILIZED WA						_		
LOGO	GED BY Larry	Lapu			DA	TE _7/17/07	-	_	
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)	LITHOLOGIC DESCRIPTION	PID (ppm)	DEPTH (feet)
-			20 36 50			Silty Gravel (GM), light gravel to 2 inches diam	t olive brown (2.5Y 5/3), well-graded subangular fine to coarse neter, dry	0.0	-
╞			40 44 40	GM			um product observed: dry, similar to asphalt concrete, trace	0.0	-
F	EB-35(A)-3		40 80 90	-		oil		0.0	-
F _	EB-35(A)-4					4.5			-
<u>5</u>	-		22 38 50	_		Gravelly Clay (CL), oliv fine to coarse gravel to	ve brown (2.5Y 4/4), medium plasticity, abundant subangular o 2 inches diameter, moist, firm	0.0	5
-			11 16 11	CL		at 7.5 fact 0.1/0 inch	diamater gravel in complex chast no receiver.	0.0	-
F			13 12 13			at 7.5 leet, 2-1/2-inch-t	diameter gravel in sampler shoe; no recovery		-
10	EB-35(A)-9.5		4 5 6			at 9 feet, increasing mo	oisture, very soft, less gravel	0.0	10
							proximately 10.5 feet h cement grout (5 sacks per 50 gallons water)		
COMMENTS APPROVED BY: DATE:									R

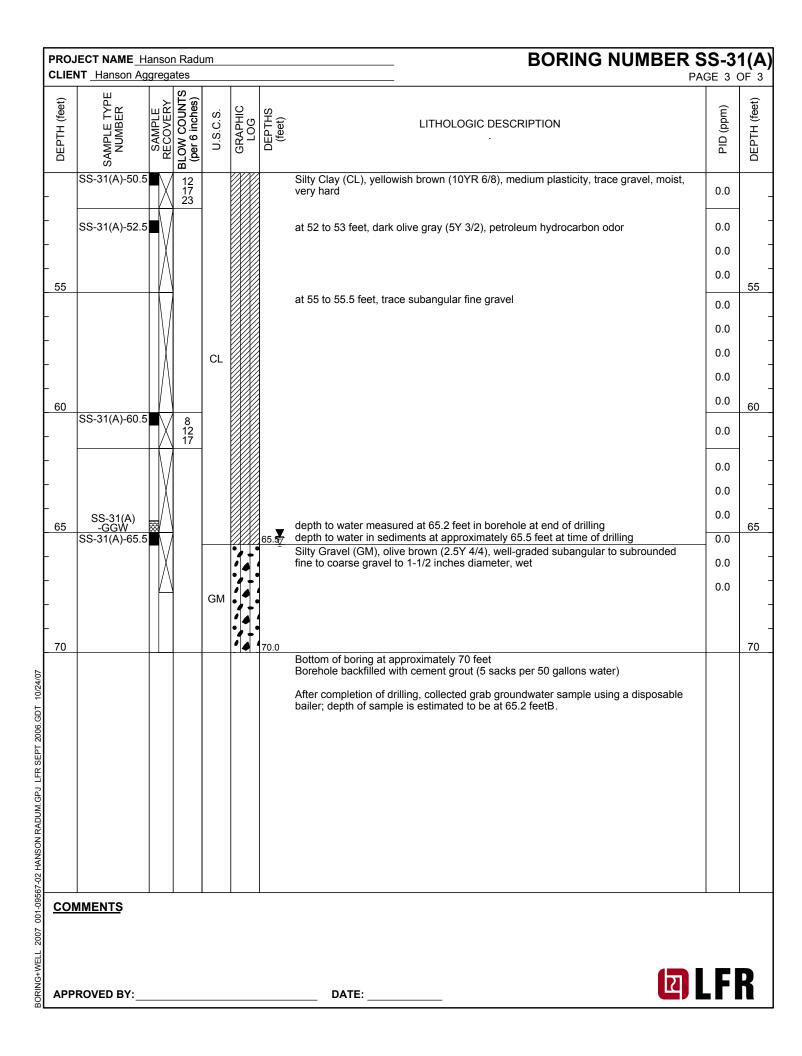
	IECT NAME_H			um			BORING NUMBER	EB-3 AGE 1	5(B) OF 1
PRO		DN _30	000 Bi	usch R	Road, F	Pleasanto	n, California DRILLING CONTRACTOR_HEW Drilling		
PROJ		R <u>001</u>	-0956	7-02			DRILLING METHOD Hollow Stem Auger (CME 75)		
LOCA	TION Not rec	orded					STAMP (IF APPLICABLE) AND/OR NOTES		
SAM	PLING METHO	D_Ca	lifornia	a Mod	ified d	riven with	140-lb hammer		
GRO		0N _N	ot ava	ilable		HOLE	DIAMETER 8 inches		
ТОР	OF CASING EL	EVA	TION_	N/A		HOLE	DEPTH _10.0 ft		
FI		TERE	D WA	TER					
ST	ABILIZED WA	TER_							
LOGO	GED BY Larry	Lapu	yade		DA	TE _7/17	7/07		
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)	LITHOLOGIC DESCRIPTION	PID (ppm)	DEPTH (feet)
-			14 38 50			s g	ilty Gravel (GM), light olive brown (2.5Y 5/3), poorly graded subrounded fine ravel, trace coarse gravel to 2-1/2 inches diameter, dry	0.0	-
-	EB-35(B)-2.5		48 50 50	GM			t 2 to 2.5 feet, black petroleum product observed: dry, similar to asphalt concrete, race oil	0.0	
-		HÀ	70 40	-				0.0	-
5	EB-35(B)-5		45 10			5.5		0.0	5
-			16 12 16 <u>7</u>			S	ilty Clay (CL), olive brown (2.5Y 4/4), medium plasticity, moist, hard	0.0	-
	EB-35(B)-9		7 8 8 7	CL				0.0	-
10			8			10.0 B B	Bottom of boring at approximately 10 feet Borehole backfilled with cement grout (5 sacks per 50 gallons water)		10
	<u>MMENTS</u> ROVED BY:						DATE:	LFI	R

	JECT NAME_Hai NT_Hanson Agg			um			BORING NUMBER E	B-3 GE 1 (5(C) OF 1
				isch R	load, F	Pleasanto			
PRO	JECT NUMBER_	001·	-09567	7-02			DRILLING METHOD Hollow Stem Auger (CME 75)		
LOCA	ATION Not recor	rded					STAMP (IF APPLICABLE) AND/OR NOTES		
SAM	PLING METHOD	Ca	lifornia	a Mod	ified d	riven with	n 140-lb hammer		
GRO	UND ELEVATIO	<u>n</u> N	ot ava	ilable		HOLE	DIAMETER 8 inches		
ТОР	OF CASING ELE	EVA		N/A		HOLE	DEPTH _11.5 ft		
FI	RST ENCOUNTE	ERE	D WA	TER					
SI		ER_							
LOG	GED BY Larry La				DA	TE 7/18	8/07		
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)	LITHOLOGIC DESCRIPTION	(mqq) OI9	DEPTH (feet)
						s g	Silty Gravel (GM), light olive brown (2.5Y 5/3), well-graded subangular fine to coarse gravel to 3 inches diameter, dry		
	EB-35(C)-2.5	X	26 20 26	GM				0.0	_
-		M	21	GC		<u>2.5</u> 3.0 C	Clayey Gravel (GC), olive brown (2.5Y 4/4), well-graded subangular fine to coarse gravel to 1-3/4 inches diameter, moist	0.0	-
-		\square	20 21 14	SW		S	and with Gravel (SW), olive brown (2.5Y 4/4), well-graded sand, subangular to ubrounded fine gravel, moist	0.0	
5	EB-35(C)-5.5	X	12 14	300				0.0	5
-		Χ	11 17			5.8 S	Silty Clay (CL), light olive brown (2.5Y 5/3), medium plasticity, moist, firm	0.0	-
F		\square	27 14 17	CL				0.0	-
-		\mathbb{A}	39 9			8.5	Silty Sand (SM), olive brown (2.5Y 4/4), fine-grained sand, moist	0.0	-
10		X	99	SM				0.0	10
-	EB-35(C)-10.5	X	17 23 27	OW		b 11.5	below 10 feet, trace gravel	0.0	-
					F	I B	Bottom of boring at approximately 11.5 feet Borehole backfilled with cement grout (5 sacks per 50 gallons water)		
COMMENTS APPROVED BY: DATE:									R

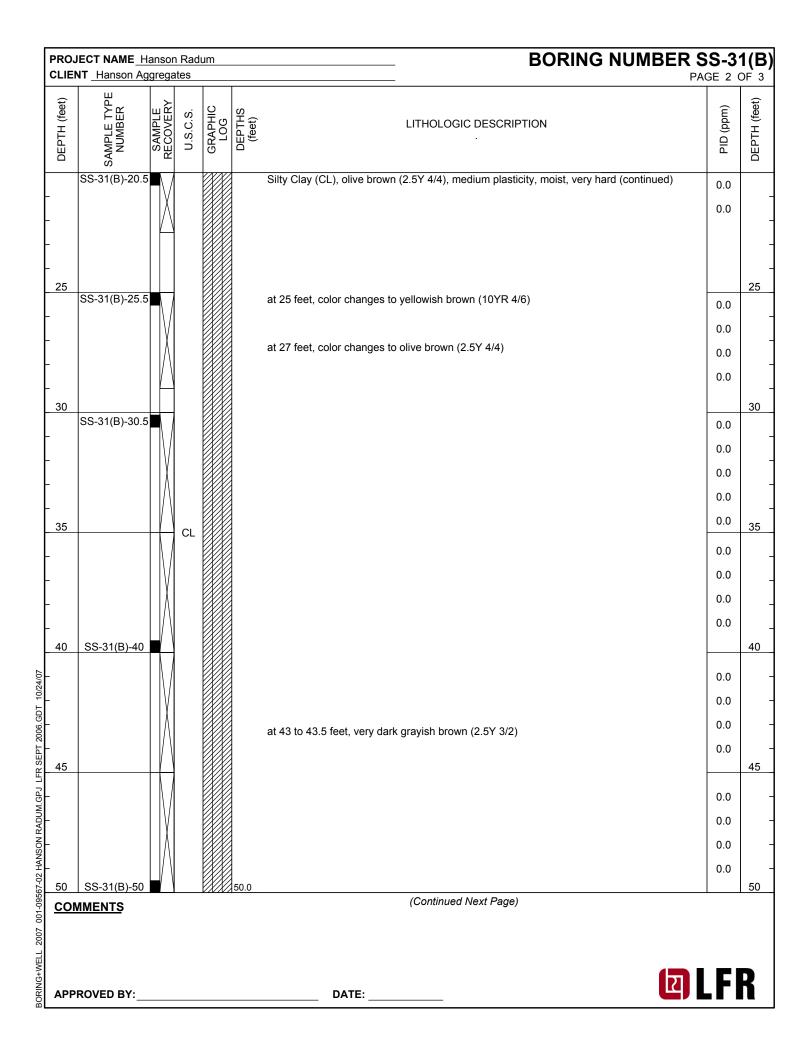
	JECT NAME_H NT_Hanson Ag			um				B-3 GE 1	5(D) OF 1
PRO.		DN _30	000 Bi	usch F	Road, F	leasanton, California	DRILLING CONTRACTOR_HEW Drilling		
PRO.	JECT NUMBER	<u>001</u>	-0956	7-02			DRILLING METHOD Hollow Stem Auger (CME 75)		
LOC	ATION Not rec	ordec	1				STAMP (IF APPLICABLE) AND/OR NOTES		
SAM	PLING METHO	D_Ca	lifornia	a Mod	ified d	iven with 140-lb hammer			
GRO	UND ELEVATIO	0N_N	lot ava	ilable		HOLE DIAMETER 8 inches			
тор	OF CASING EL	EVA		N/A		HOLE DEPTH 11.0 ft			
FI		FERE	D WA	TER					
S1	ABILIZED WA	TER							
LOG	GED BY Larry	Lapu	-	<u> </u>	DA	TE <u>7/17/07</u>		1	1
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)	LITHOLOGIC DESCRIPTION	PID (ppm)	DEPTH (feet)
-			14 30 35	GM		Silty Gravel (GM), light og gravel to 2-1/2 inches di	blive brown (2.5Y 5/3), well-graded subangular fine to coarse iameter, dry	0.0	-
╞	EB-35(D)-2.5		14 26 19				product observed: dry, black, asphalt-like coating on	0.0	-
-			13 13 14 14			0.0	own (2.5Y 4/4), medium plasticity, trace fine to coarse gravel oist, firm to hard	0.0	-
5	EB-35(D)-5.5		7					0.0	5
-			10 5 7 7	CL				0.0	_
-	EB-35(D)-9.5		5 7 7					0.0	-
10	<u></u>			-		11.0			10
-						Bottom of boring at appr	roximately 11 feet cement grout (5 sacks per 50 gallons water)		-
<u>co</u>	<u>MMENTS</u>								
									_
АРР	ROVED BY:					DATE:		F	R

	JECT NAME_H NT_Hanson Ag			um				SS-3 PAGE 1	
PRO		DN _3	000 Bu	isch F	Road, F	Pleasanton, California	DRILLING CONTRACTOR_HEW Drilling		
PRO		R_001	-0956	7-02			DRILLING METHOD Hollow Stem Auger (CME 75)		
LOCA	ATION Not rec	ordeo	ł				STAMP (IF APPLICABLE) AND/OR NOTES		
SAM	PLING METHO	D _Ca	alifornia	a Mod	lified; c	ontinuous soil core			
GRO	UND ELEVATIO	<u>0N</u>	lot ava	ilable		HOLE DIAMETER 8 inches			
ТОР	OF CASING EL	EVA		N/A		HOLE DEPTH 70.0 ft			
		FERE	D WA	TER	65.5 ft				
⊈ S1	ABILIZED WA	TER	65.2 f	t					
LOG	GED BY Larry	Lapu			DA	TE <u>7/18/07 - 7/19/07</u>			
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)	LITHOLOGIC DESCRIPTION	PID (ppm)	DEPTH (feet)
						Silty Clay (CL), light oli very hard	ve brown (2.5Y 5/4), medium plasticity, trace gravel, moist,	0.0	
		$ \rangle$						0.0	
								0.0	_
								0.0	-
5	00.01(4) 5.5								5
-	SS-31(A)-5.5		7 9 12					0.0	-
-		T.						0.0	-
F		$ \rangle$						0.0	-
-								0.0	-
10	SS-31(A)-10.5		8 12	CL				0.0	10
		$\left \right ^{}$	15						-
		$ \rangle$				at 12 feet, color change	es to black (10YR 2/1)	0.0	
		IŇ						0.0	-
15	SS-31(A)-15.5		-					0.0	15
			5 12 19					0.0	
								0.0	-
-		$ \rangle$						0.0	-
20		$ \rangle$						0.0	20
:	MMENTS	<u></u>	1		<u>/////</u>	1	(Continued Next Page)	I	
8									
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APP	ROVED BY:					DATE:			



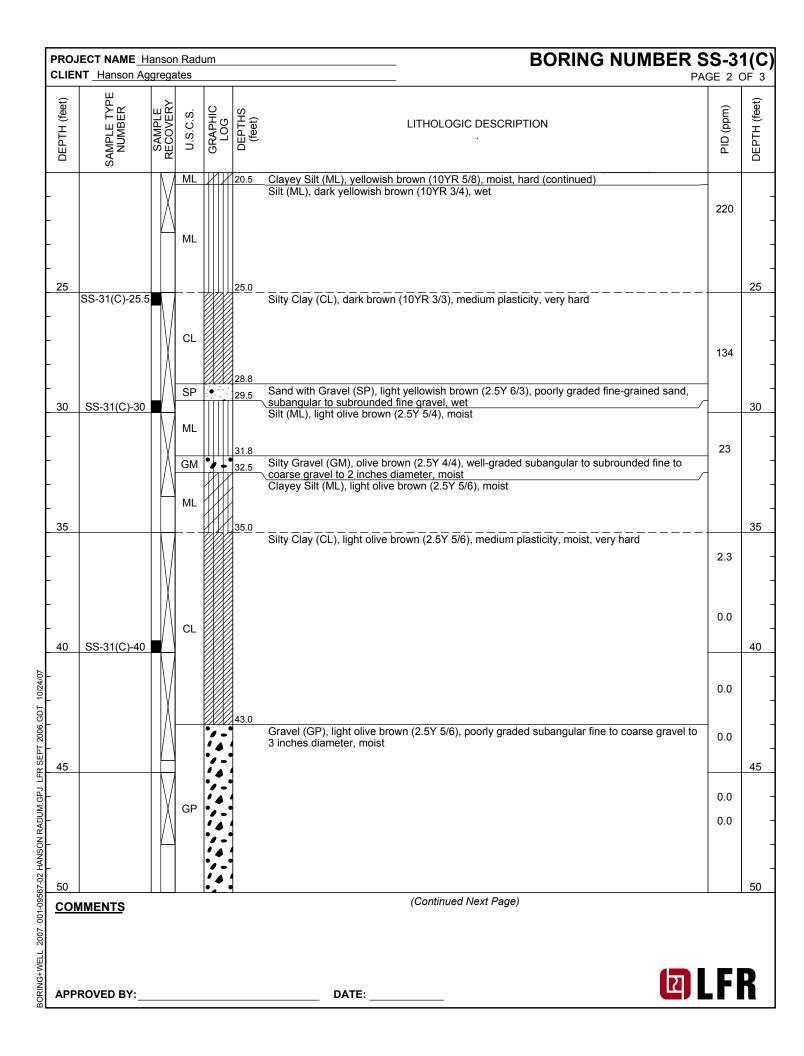


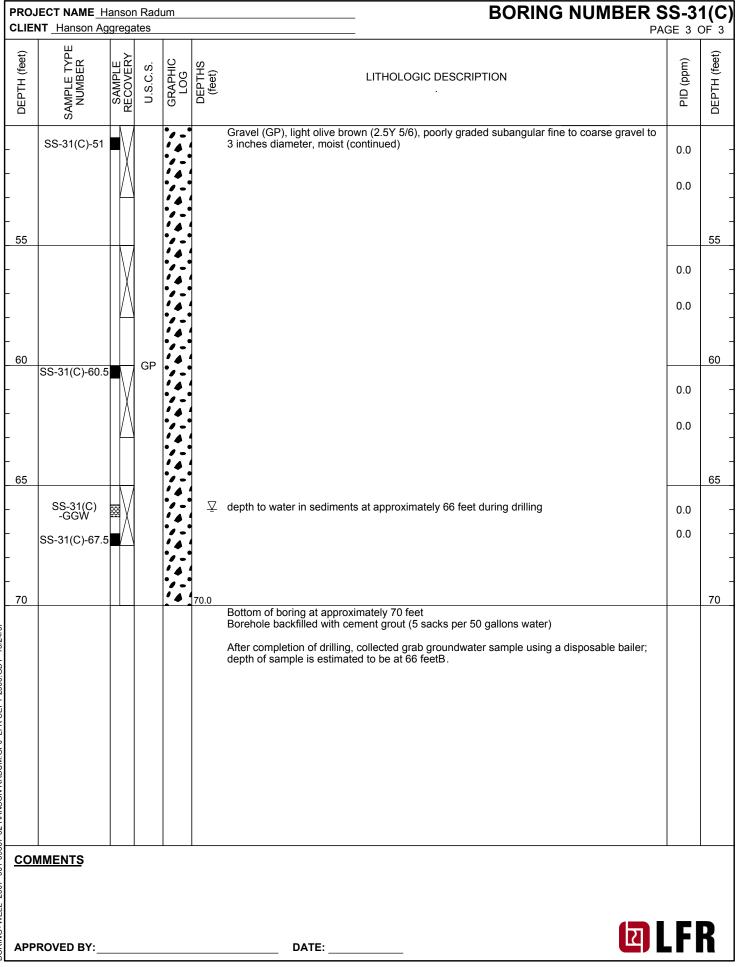
	JECT NAME_Ha			um				SS-3 AGE 1	
PRO.	JECT LOCATIO	N_30	000 Bi	usch R	oad, F	Pleasanton, California	DRILLING CONTRACTOR HEW Drilling		
PRO.	JECT NUMBER	001	-0956	7-02			DRILLING METHOD Hollow Stem Auger (CME 75)		
LOCA	ATION Not reco	orded					STAMP (IF APPLICABLE) AND/OR NOTES		
SAM	PLING METHO	D _Co	ntinuc	ous soi	l core		_		
GRO	UND ELEVATIO	n_ N	ot ava	ailable		HOLE DIAMETER 8 inches			
ТОР	OF CASING EL	EVA		N/A		HOLE DEPTH 70.0 ft			
∑ FI	RST ENCOUNT	ERE	D WA	TER 6	6.0 ft				
SI	ABILIZED WA	TER_							
LOG	GED BY Larry I	apu	yade		DA	TE <u>7/19/07 - 7/20/07</u>			
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)		LITHOLOGIC DESCRIPTION	PID (ppm)	DEPTH (feet)
			GM	• •	0.8	Silty Gravel (GM), olive brow	n (2.5Y 4/4), poorly graded subangular fine gravel, dry		
	SS-31(B)-5.5	X	CL			Silty Clay (CL), olive brown (3 at 12 feet, color changes to b	2.5Y 4/4), medium plasticity, dry, very hard black (10YR 2/1)	0.0 0.0 0.0 0.0	
15									15
	SS-31(B)-15.5					at 15 feet, color changes to c	live brown (2.5Y 4/4)	0.0	
								0.0	
								0.0	
								0.0	_
20				XX.			(Continued Neut Deve)		20
	MMENTS					DATE:	(Continued Next Page)	LF	R



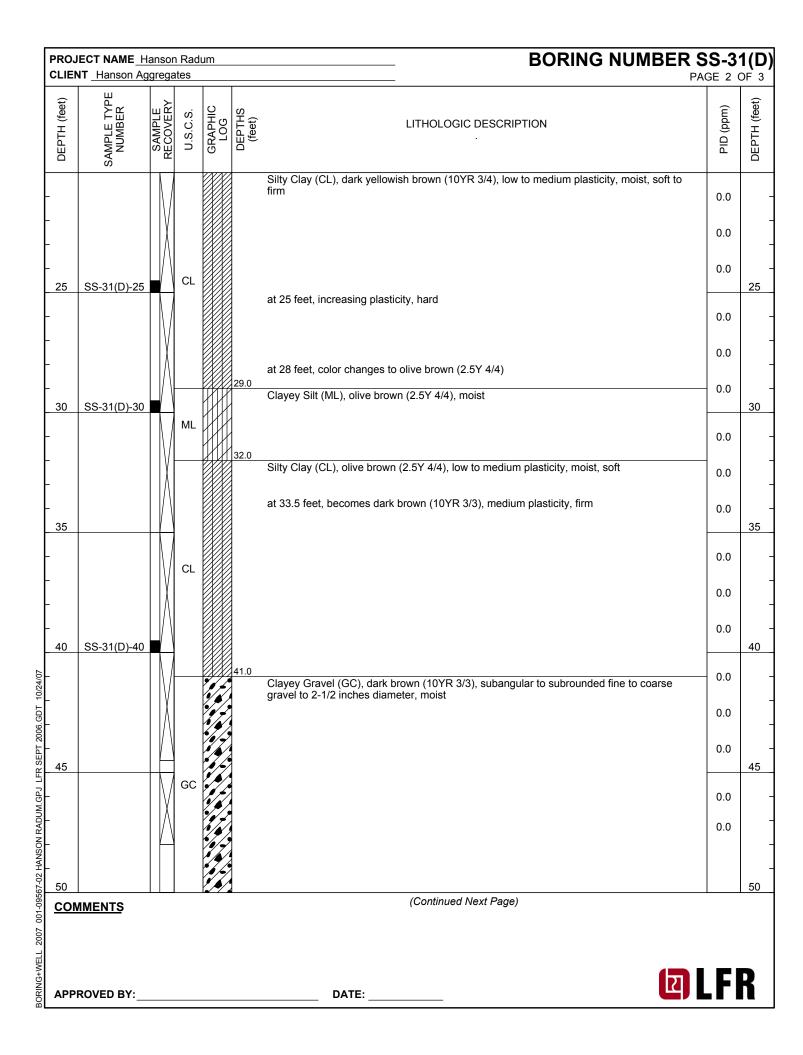
PROJECT NAME <u>Hanson Radum</u> CLIENT <u>Hanson Aggregates</u>	BORING NUMBER S	BORING NUMBER SS-31		
DEPTH (feet) SAMPLE TYPE NUMBER SAMPLE SAMPLE SAMPLE COVERY U.S.C.S. U.S.C.S. CGRAPHIC LOG DEPTHS	EITHOLOGIC DESCRIPTION	PID (ppm)	DEPTH (feet)	
	Gravel (GP), olive brown (2.5Y 4/3), poorly graded subrounded fine to coarse gravel to 2-1/2 inches diameter, moist	0.0	-	
	at 55 feet, increase in maximum gravel size to 3 inches, increasing clay	0.0	55 -	
60 SS-31(B)-60.5 - - - - - 65		0.0	60 - - - 65	
	☑ depth to water in sediments at approximately 66 feet during drilling 0			
	Bottom of boring at approximately 70 feet Borehole backfilled with cement grout (5 sacks per 50 gallons water) After completion of drilling, collected grab groundwater sample using a disposable bailer; depth of sample is estimated to be at 66 feetB.			
COMMENTS	DATE:		D	

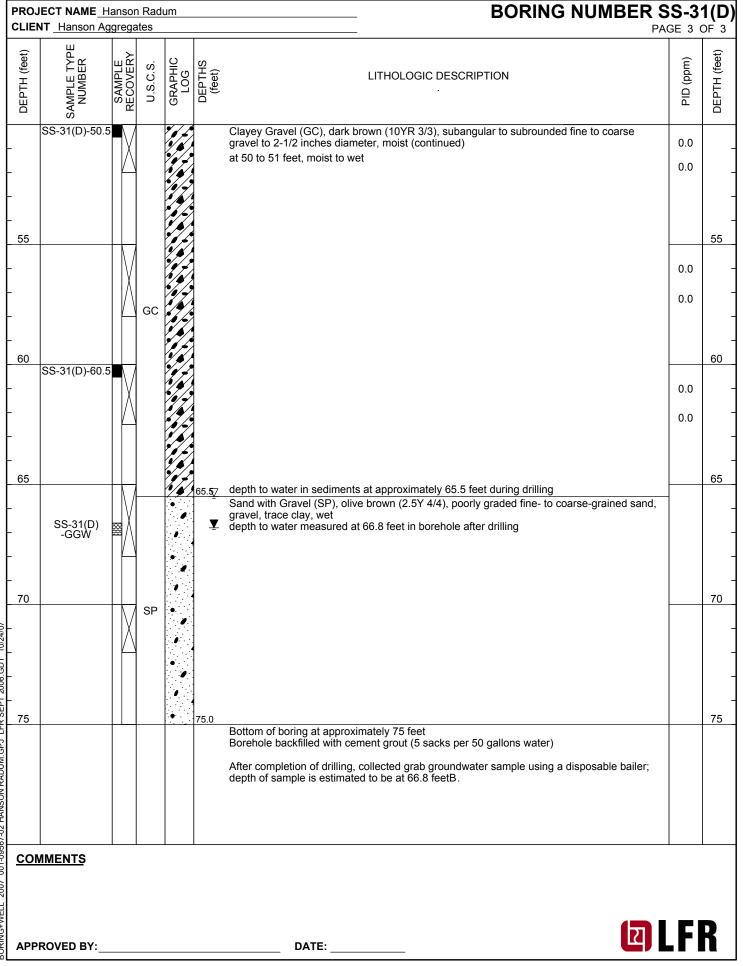
	JECT NAME_H NT_Hanson Ag			um			BORING NUMBER	SS-3 PAGE 1 (
PRO.		DN _30	000 Bi	usch R	oad, P	leasanton, California	DRILLING CONTRACTOR HEW Drilling		
PRO	JECT NUMBER	र _001	-0956	7-02			DRILLING METHOD Hollow Stem Auger (CME 75)		
LOCA	ATION Not rec	orded					_ STAMP (IF APPLICABLE) AND/OR NOTES		
SAMI	PLING METHO	D_Co	ntinuo	ous soi	l core		_		
GRO	UND ELEVATIO	0n N	ot ava	ailable		HOLE DIAMETER 8 inches			
	OF CASING EL					HOLE DEPTH _70.0 ft	-		
	RST ENCOUN		_		6 0 ft		-		
	ABILIZED WA				0.0 11		-		
	GED BY Larry	_			DA	TE _7/20/07	-		
et)	Ш	≻							et)
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)		LITHOLOGIC DESCRIPTION	(mqq) OIA	DEPTH (feet)
EPTI	MPL	SAN	U.S.	GRA	DEP (fe			DIA (EPTI
ā	SA	<u>۳</u>							Ō
		N			0.5	Asphalt concrete fragments a Silty Clay (CL), light olive bro	and gravel own (2.5Y 5/4), medium plasticity, moist, very hard		
		ΙŇ						9,999	
Γ									
F									_
5									5
	SS-31(C)-5.5								5
F		$ \rangle $							-
F		$ \rangle$						9,999	-
-									-
-						at 9 to 10 feet, black (10YR 2	2/1)		-
10	SS-31(C)-10.5		CL					9,999	10
Ļ	33-31(0)-10.3								_
		$ \rangle$							_
		ΙX							
-		$ \rangle$							
15		$ \rangle$						2,500	15
	SS-31(C)-15.5	5				at 15 feet, color changes to c	blive brown (2.5Y 4/4)	_,	
		$ \rangle $							_
- -		IIY						274	_
						at 17.5 to 18.5 feet, black (10	JYR 2/1)		-
	SS-31(C)-19.5	5			19.5			71	-
20			ML	INX		Clayey Silt (ML), yellowish bi	rown (10YR 5/8), nonplastic to low plasticity, moist, hard (Continued Next Page)		20
	<u>MMENTS</u>								
20-100									
1007									
100								LF	R
APP	ROVED BY:					DATE:			



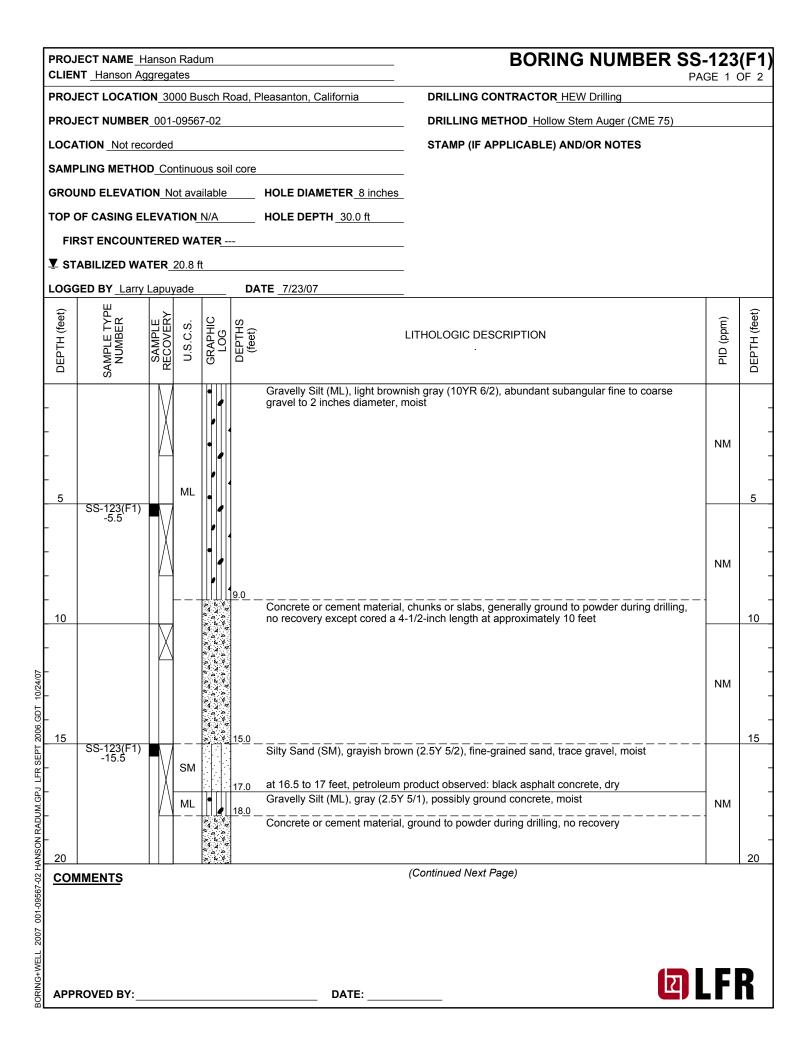


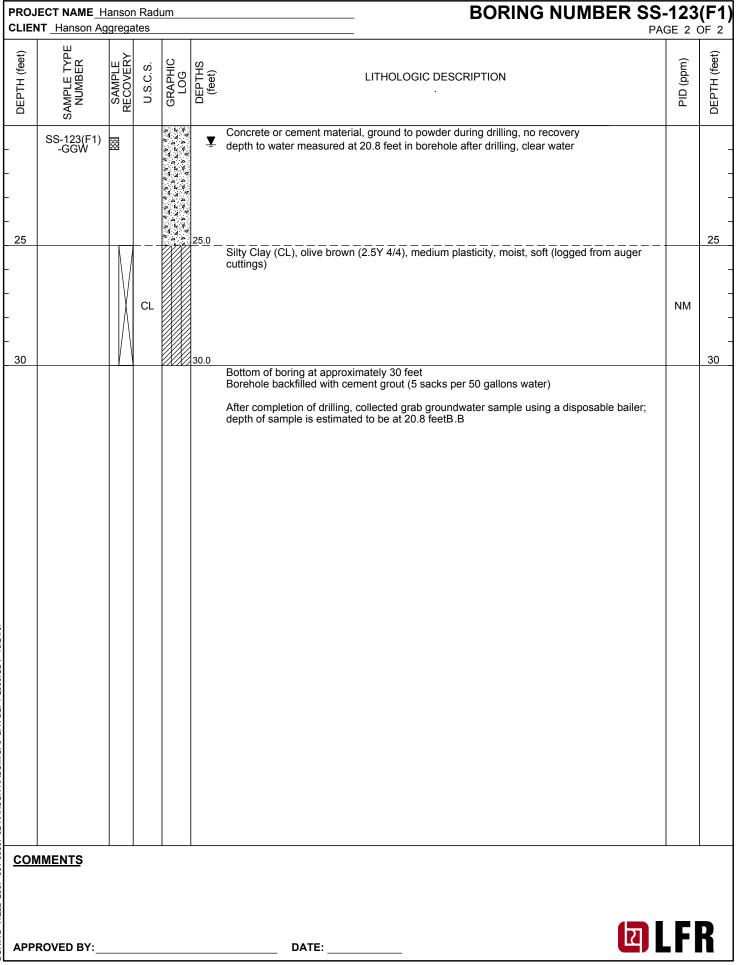
	JECT NAME_H NT_Hanson Ag			um			BORING NUMBER	R SS-3 PAGE 1	1(D) OF 3
PRO	JECT LOCATIO	DN _30	000 Bi	usch R	oad, P	leasanton, California	DRILLING CONTRACTOR HEW Drilling		
PRO		R <u>001</u>	-0956	7-02			DRILLING METHOD Hollow Stem Auger (CME 75)		
LOC	ATION Not rec	orded					STAMP (IF APPLICABLE) AND/OR NOTES		
SAM	PLING METHO	D_Co	ntinuo	ous soi	l core				
GRO	UND ELEVATIO	0N _N	ot ava	ailable		HOLE DIAMETER 8 inches	_		
ТОР	OF CASING EL	EVA		N/A		HOLE DEPTH 75.0 ft	_		
ע דו		TERE	D WA	TER 6	5.5 ft		-		
⊈ s1	ABILIZED WA	TER_	66.81	ft					
LOG	GED BY Larry	Lapu	yade		DA	TE <u>7/20/07 - 7/23/07</u>			
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)		LITHOLOGIC DESCRIPTION	PID (ppm)	DEPTH (feet)
		$ \Lambda $	GM		1.0	Silty Gravel (GM), dark brown	n (10YR 3/3), poorly graded subangular fine gravel, moist	0.0	
-		ΙX				Silty Clay (CL), light olive bro	wn (2.5Y 5/3), medium plasticity, moist, very hard	0.0	
F									
F									
5									5
	SS-31(D)-5.5							0.0	
F		$ \rangle$						0.0	
F		IX						0.0	
								0.0	
10								0.0	10
	SS-31(D)-10.5	5	CL					0.0	
								0.0	
		ΙX				at 12.5 feet, color changes to	o dark olive brown (2.5Y 3/3)	0.0	
								0.0	
15	SS-31(D)-15							0.0	15
		$ \rangle$						0.0	
								0.0	
		ΙX						0.0	
								0.0	
20	SS-31(D)-19.5								20
	<u>MMENTS</u>						(Continued Next Page)		
000									
							य	LF	R
	ROVED BY:					DATE:			



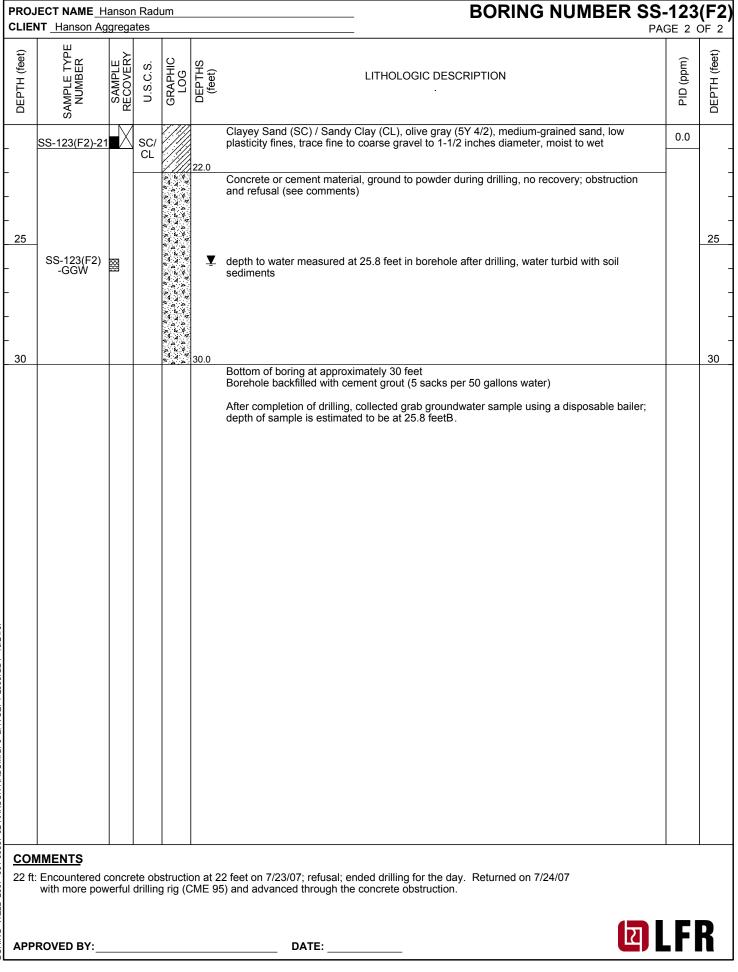


	ECT NAME_H			um		BORING NUMBER SS-	123 GE 1	
PROJ	ECT LOCATIO	DN _30	000 Bi	usch F	Road, P	leasanton, California DRILLING CONTRACTOR HEW Drilling		
PROJ		R _001	-0956	7-02		DRILLING METHOD Hollow Stem Auger (CME 95)		
LOCA	TION Not rec	orded	I			STAMP (IF APPLICABLE) AND/OR NOTES		
SAMF	LING METHO	D Co	ntinuc	ous so	il core			
GROU	JND ELEVATIO	0N _N	ot ava	ailable		HOLE DIAMETER 8 inches		
TOP	OF CASING EL	EVA	TION	N/A		HOLE DEPTH _20.0 ft		
 ↓ ↓ ▼ FIF		ΓERE	D WA	TER 1	16.0 ft			
	ABILIZED WA							
	ED BY Larry				DA	TE 7/24/07		
								it)
H (fee	BER	PLE	C.S.	RAPHIC LOG	et)	LITHOLOGIC DESCRIPTION	(mqq	H (fee
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)	· · · · · · · · · · · · · · · · · · ·	PID (ppm)	DEPTH (feet)
	SA							
		IΧ	ML		0.5	Silty Gravel (GM) / Gravelly Silt (ML), light olive brown (2.5Y 5/3), poorly graded subangular to subrounded fine to coarse gravel to 1-1/4 inches diameter, dry	-	
						Silty Clay (CL), black (10YR 2/1), medium plasticity, moist, very hard		
								_
5								5
	SS-123(AA) -5.5	\square				at 5 feet, color changes to very dark gray (2.5Y 3/1), trace subangular gravel	0.0	
	00.400/44	ΙŇ					0.0	
Γ	SS-123(AA) -7.5					at 7.5 feet, petroleum product observed: black asphalt bound with gravel and sand, pieces	0.0	
Γ						up to 2-1/2 inches, dry, no odor, similar to asphalt concrete (i.e., roadway paving)		
10								10
	SS-123(AA) -10.5		CL			at 10 feet, color changes to olive (5Y 5/3)		
F		IIV					0.0	-
1		ΙİΪ				at 12.5 feet, petroleum product observed: black asphalt as described at 7.5 feet	0.0	-
2-		$ \rangle$					0.0	-
5- 9007 15						at 14.5 to 15 feet, concrete chunks		15
	SS-123(AA) -15.5				₹	at 15.5 feet, petroleum product observed: black asphalt as described at 7.5 feet depth to water measured at 15.65 feet in borehole after drilling	0.0	
Ě	SS-123(AA) -GGW	₩			Υ¥	at 16 feet, color changes to black (5Y 2.5); depth to water in sediments at approximately 16 feet during drilling	0.0	-
41.GPJ	SS-123(AA) -18						0.0	-
	-18` ′							-
						Bottom of boring at approximately 20 feet		-
20 CON	IMENTS		1	<u>XX</u> X/	20.0	Borehole backfilled with cement grout (5 sacks per 50 gallons water)		20
15.5	ft: Petroleum p ft: After comple	etion o	of drilli	ng, co	ollected	s observed only at depths noted above (7.5, 12.5, and 15.5 feet). grab groundwater sample using a disposable bailer; depth of sample is was turbid, containing soil sediments.		
	ROVED BY:					DATE:	F	R

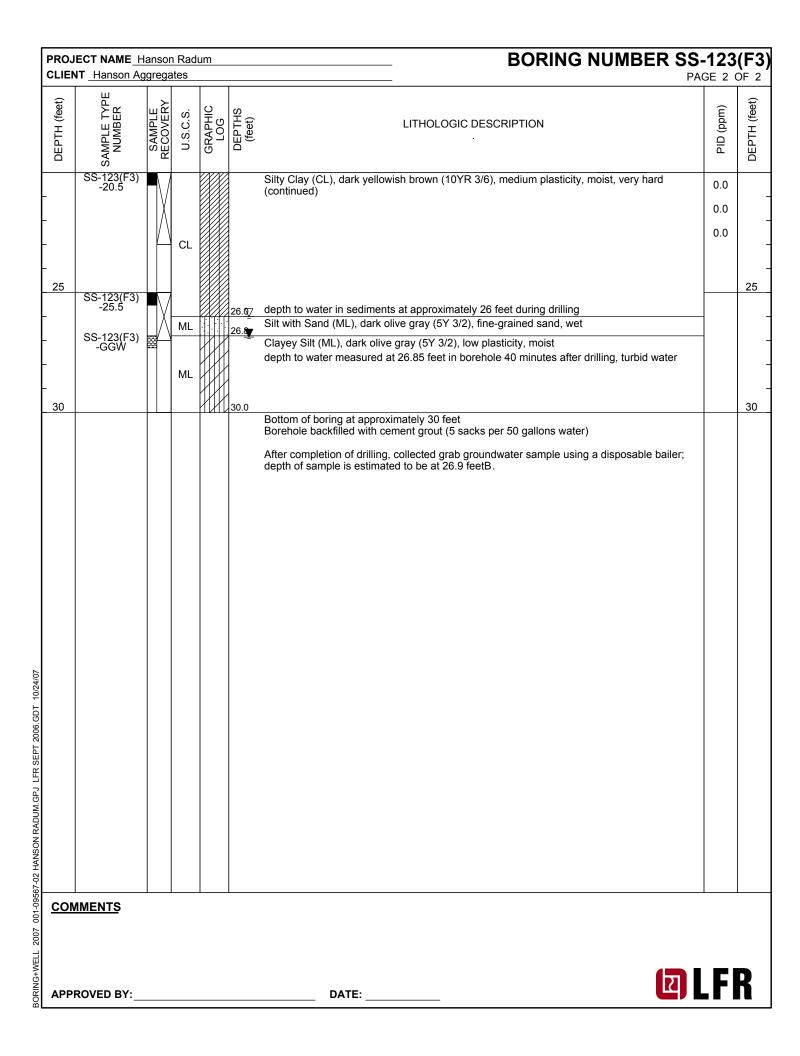




	JECT NAME_H NT_Hanson Ac			um		BORING NUMBER S	S-123 PAGE 1					
PRO		DN _30	000 B	usch R	oad, P	leasanton, California DRILLING CONTRACTOR HEW Drilling	DRILLING CONTRACTOR HEW Drilling					
PRO	PROJECT NUMBER_001-09567-02					DRILLING METHOD Hollow Stem Auger (CME 75 and	CME 95)					
LOCA	LOCATION Not recorded					STAMP (IF APPLICABLE) AND/OR NOTES						
SAM	PLING METHO	D Co	ntinu	ous so	l core							
GRO		0N _N	ot ava	ailable		HOLE DIAMETER 8 inches						
ТОР	OF CASING EI	EVA	TION	N/A		HOLE DEPTH _ 30.0 ft						
FI	RST ENCOUN	TERE	D WA	TER -								
⊈ s1	ABILIZED WA	TER	25.8	ft								
LOG	GED BY Larry	Lapu	yade		DA	TE _7/23/07 - 7/24/07						
								et)				
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	C.S.	GRAPHIC LOG	DEPTHS (feet)	LITHOLOGIC DESCRIPTION	PID (ppm)	DEPTH (feet)				
EP TI	MPL	SAN	U.S.C.S.	GRA	DEP (fe	· ·	DIG (EPT				
	SA											
		N				Silty Gravel (GM) / Gravelly Silt (ML), light brownish gray (2.5Y 6/2), poorly graded subrounded fine gravel, dry	0.0	_				
						at 1.2 feet, color changes to gray (2.5Y 6.1), moist at 1.5 feet, 0.3-foot-thick interval, silt, dark reddish gray (5YR 4/2), dry; odor of ground		_				
						cement						
Γ								-				
5								5				
	SS-123(F2)-6						0.0					
F	00-120(12)-0	\square					0.0	-				
F			GM/					-				
F			ML					-				
\vdash												
10		$H_{/}$						10				
\mathbf{F}	SS-123(F2) -11.5						0.0	-				
	-11.5	Π						-				
101/24								-				
								-				
15			<u> </u>		15.0	Sand with Gravel (SP), dark olive brown (2.5Y 3/3), poorly graded fine-grained sand,	_	15				
	SS-123(F2)		SP		16 5	subrounded gravel, moist	0.0	-				
5- -	SS-123(F2) -16.5			P 4 4 9	16.5	Concrete or cement material, ground to powder during drilling, no recovery		-				
				4 4 4 4 9 4 4 4 9 4 4				_				
N KAL				A - A - A - A - A - A - A - A - A - A -				_				
					20.0			20				
	MMENTS					(Continued Next Page)						
9960-1												
.00 / (
LL 200												
0+WEI								D				
	ROVED BY:					DATE:	LF	n				



PROJECT NAME_Hanson Radum CLIENT_Hanson Aggregates							BORING NUMBER	SS-	123 E 1 ((F3) DF 2
PROJ		DN _30	000 B	usch R	oad, F	easanton, California	DRILLING CONTRACTOR HEW Drilling			
PROJ		R_ 001	-0956	7-02			DRILLING METHOD Hollow Stem Auger (CME 95)			
LOCATION Not recorded							STAMP (IF APPLICABLE) AND/OR NOTES			
SAMF	LING METHO	D Co	ontinuo	ous soi	l core					
GROL	JND ELEVATI	0N _N	lot ava	ailable		HOLE DIAMETER 8 inches				
ТОР	OF CASING EL	EVA		N/A		HOLE DEPTH 30.0 ft				
∑ FIF		TERE	D WA	TER 2	6.0 ft					
I ⊈ ST	ABILIZED WA	TER	26.9	ft						
LOGO	GED BY Larry	Lapu	yade		DA	re <u>7/24/07</u>				
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)	LITH	OLOGIC DESCRIPTION		PID (ppm)	DEPTH (feet)
-			GM		1.0	coarse gravel to 1-1/2 inches diam diameter in top 1/2 foot, moist	own (10YR 4/2), poorly graded subrounded fine to heter, asphalt concrete fragments to 2-1/2 inches			
- - - 5			CL		5.0	fragment in sampler shoe results in	4/4), medium plasticity, moist, very hard; concrete n poor recovery			
-	SS-123(F3) -5.5		GM CL		5.5 7.0	coarse gravel to 1-1/2 inches diam Silty Clay (CL), light olive brown (2 trace gravel at soil contact with co	2.5Y 5/4), low plasticity, dry, very hard		0.0	-
- - 10				4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	10.0	Concrete			0.0 0.0	- - 10
	SS-123(F3) -10.5				10.0	Silty Clay (CL), black (10YR 2/1), r	medium plasticity, moist, very hard			10
		$ \rangle$				at 11.5 feet, color changes to dark	olive gray (5Y 3/2)		0.0 0.0	-
-									0.0	-
15	SS-123(F3) -15.5		CL					-	0.0	- 15
	-15.5 ´	$\left[\right] $				at 15.5 to 17.5 feet, trace gravel			0.0	-
<u>,</u>		$ \rangle$				of 17 E fact color charges to deal	vallowich brown (10VD 2/6)		0.0	-
						at 17.5 feet, color changes to dark			0.0	-
_		$ \rangle$							0.0	-
20 CON	MENTS			<u>XXX</u>		(Cor	ntinued Next Page)			20
	ROVED BY:					DATE:			.FI	R
							_			



APPENDIX D

Groundwater Monitoring Well Sampling Field Sheets

WATER-GUALITY SAMPLING INFORMATION

Project I	Name <u>H</u>	ANSON RAD	UM_			Р	roject N	10. 001-095	<u>567-</u> 0
Date _	7	(12/07	s	ample N	10. <u>TW-5</u>				
Sampler	s Name	LARRY LI	PUYAD	2	1	r			ı
Samplin	g Location	PLEASANT	on, ca		- 6		NO	.70	
Samplin	g Method	Disposale	li BA	leg			-53	.20	
Analyses	s Requested T	PHIL TPHO,	Fuel DX, 1	bis (F)	HSOL)		57	66	
		Sample Bottles us				ICE	245	00	
Method	of Shipment	HAND Delive	<u></u>]	575	50	
	GROUND W	VATER		SURFAC	E WATER		9,2.	0.0.6	
Well No.	- TW-	5	_ Stream V	Vidth		<u>.</u>			
Well Dia	meter (in.)	2	_ Stream I	Depth	• •	 	1*		
Depth to Static (ft	Water, 53,	20	Stream V	Velocity _	·				
	Well Box	·	Rained n	ecently ?			•		
	oth (ft) \underline{ll}	9,70	Other			_			
		1	2-inc	h casing	= 0.16 gal/ft				
Column	in Well	57,50		h casing	= 0.65 gal/ft	l			
Water Vo	olume in Well	9.2 GAR	= 5-inc	h casing	= 1.02 gal/ft			LOCATION MAP	
			6-inc	h casing	= 1.47 gal/ft				
*# TIME	DEPTH TO WATER (feet)	VOLUME WITHDRAWN (gallons)	6-inc TEMP (deg. C)	рн	= 1.47 gal/ft COND (umhos/cm)	ОПН	ER	REMARKS	
1	WATER	VOLUME WITHDRAWN	ТЕМР	рн	COND			REMARKS BEGIN BA	un
1	WATER	VOLUME WITHDRAWN	TEMP (deg. C)	pH (S.U.)	COND (umhos/cm)			<u> </u>	un
тіме 405 1450	WATER	VOLUME WITHDRAWN	TEMP (deg. C)	рн (s.u.) 6.t/7	COND (umhos/cm)			<u> </u>	un
тіме 1450 1534	WATER	VOLUME WITHDRAWN (gallons) 9.5 18.5	TEMP (deg. C)	pH (S.U.) 6.1/7 7.2/	COND (umhos/cm) 62 -2			BEGIN BAN Lean Lean	un
тіме 1450 1534 1618	WATER (feet)	VOLUME WITHDRAWN (gallons)	TEMP (deg. C) 20.2 20.3	pH (S.U.) 6.1/7 7.2/	COND (umhos/cm)			BEGIN BAN Lean Lean	Un lo
тіме 1450 1534	WATER	VOLUME WITHDRAWN (gallons) 9.5 18.5	TEMP (deg. C)	pH (S.U.) 6.1/7 7.2/	COND (umhos/cm) 62 -2			<u> </u>	un k
тіме 1450 1534 1618	WATER (feet)	VOLUME WITHDRAWN (gallons) 9.5 18.5	TEMP (deg. C)	pH (S.U.) 6.1/7 7.2/	COND (umhos/cm) 62 -2			BEGIN BAN Lean Lean	Cen E
тіме 1450 1534 16/8	WATER (feet)	VOLUME WITHDRAWN (gallons) 9.5 18.5	TEMP (deg. C)	pH (S.U.) 6.1/7 7.2/	COND (umhos/cm) 62 -2			BEGIN BAN Lean Lean	un k
тіме 1450 1534 16/8	WATER (feet)	VOLUME WITHDRAWN (gallons) 9.5 18.5	TEMP (deg. C)	pH (S.U.) 6.1/7 7.2/	COND (umhos/cm) 62 -2			BEGIN BAN Lean Lean	Len &
тіме 1450 1534 1618	WATER (feet)	VOLUME WITHDRAWN (gallons) 9.5 18.5	TEMP (deg. C)	pH (S.U.) 6.1/7 7.2/	COND (umhos/cm) 62 -2			BEGIN BAN Lean Lean	Len k
тіме 1450 1534 1618	WATER (feet)	VOLUME WITHDRAWN (gallons) 9.5 18.5	TEMP (deg. C)	pH (S.U.) 6.1/7 7.2/	COND (umhos/cm) 62 -2			BEGIN BAN Lean Lean	un k
тіме 1450 1534 1618	WATER (feet)	VOLUME WITHDRAWN (gallons) 9.5 18.5	TEMP (deg. C)	pH (S.U.) 6.1/7 7.2/	COND (umhos/cm) 62 -2			BEGIN BAN Lean Lean	Cen k

Suggested Method for Purging Well

		111								
Project #	· 070725.0	ואל		Client: LFR						
Sampler:			·····	Start Date: 7/25/07						
Well I.D	.:35/1E10D	F	<u></u>	Well Diameter: 2 3 4 6 8						
	ell Depth: 2		ra multinativ <u>unitati kantati ka</u>	Depth to Water: 56.32						
Before:		After:		Before: After:						
Depth to	Free Produ	ct:		Thickness of	f Free Product (fee	t):				
Referenc	ed to:	<u>v</u> o	Grade	D.O. Meter (`	YSI HAC	ж			
Purge Meth	od: Pump i Bailer Disposable Bai Positive Air Di Electric Subme	splacement	Waterra Peristaltic Extraction Pump & Other <u>2" Redi</u>		Disposabl Extraction Dedicated & Other: <u>NE</u>	Port	6 7			
<mark>عج</mark> 1 Case Volum	_\` /	<u>3</u> = cified Volume	= 76 Gals. s Calculated Volum	1" 2" 2"	0.04 4" 0.16 6" 0.37 Other	0.65 1.47	.163			
Time	Temp. (°F or 🌮)	pH	Conductivity (mS or 🔊	Turbidity (NTU)	Gals. Removed	(Fe.) VTW、 Observation	(m 150f			
940	18.6	6.93	24168	95	initial	56.40	-2			
947	18.8	691	1499	6	25	56-40	Э			
953	20.4	6.90	1215	5	50	510.44	2			
959	20.6	6.96	1208	5	75	56.48	5			
				Final DTW	56.30		5			
Did well o	lewater?	Yes	R)	Gallons actua	ally evacuated:	75				
Sampling	Time: 100	8		Sampling Da	te: 7/25 67	1				
Sample I.	D.: 35/1E	1008		Laboratory: STL CET						
Analyzed	for: TP	H-G BTEX	MTBE TPH-D	Other: see CC	<i>p</i> C	\smile				
Equipmen	t Blank I.D).:	· @	Duplicate I.D						
Analyzed	for: TP	H-G BTEX	MTBE TPH-D	Other:						
D.O. (if re	q'd):		Pre-purge:	^{mg} / _I	Post-purge:		^{mg} /L			
ORP (if re	: ;		Pre-purge:	mV	Post-purge:	1	mV			

WELL MONITORING DATA SHEET

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (408) 573-0555

r			WELL MO	ONITORI	NG DATA	SHEET	ſ				
Project #	: 07072	<u>5-pw-1</u>		Client: LFR							
Sampler:	ow			Date: 7-25-67							
Well I.D.	: <u>35//8</u>	Eloka		Well Diameter: $2 3 4 6 8$							
Total We		590.0		Depth to Water Pre: SS.50 Post:							
Depth to	Free Produ	let:	······································		Thickness of Free Product (feet):						
Referenc	the second s	(vc)	Grade	Flow Cell	Type:						
Sampling M		Dedicated	os Pump Tubing) }	Peristaltic Pump Bladder Pump						
Time	(°C)or °F)	pН	Cond. (mS or (aS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL).				
1027	19.3	7.4	880	5		90	348	Observations			
1210	19.3	7.6	781	6		76	696				
1320	18.9	7.6	788	5	_	73	1043	· · · · · · · · · · · · · · · · · · ·			
<u>, </u>		···									
<u> </u>											
· · · · · · · · · · · · · · · · · · ·											
					· · ·						
<u> </u>											
Did well o	dewater?	Yes	No		Amount a	ctually e	vacuated: 104	13 10			
Sampling		325			Sampling		1-25.07	<u> </u>			
Sample I.	D.: 35//	Elok2	-		Laborator						
Analyzed			BTEX) MTB	\sim		Other:	···				
Equipmen	t Blank I.I	D.:	@ Time		······	I.D.: 30	5/1Elok2-	0 0 A			
		····			<u> </u>		y IUR 2 -	VUK (M 13)S			

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Project #	070725.DL	<u>ار ا</u>		Client: LFR					
Sampler:				Start Date: 7/25/07					
	: 35/16(0	N 3		Well Diameter: 2 3 4 6 8					
	ell Depth: (ๆ		. <u> </u>	Depth to Water: 56-80					
Before:		After:		Before: After:					
Depth to	Free Produ	ct:	· · · · · · · · · · · · · · · · · · ·	Thickness of	Free Product (fee	t):			
Reference	ed to:	E	Grade	D.O. Meter (i	·····	YSI HACH			
Purge Meth	od: Pumpin Bailer Disposable Bai Positive Air Di Electric Subme	ler splacement	80 [°] Waterra Peristaltic Extraction Pump ∧ Other <u>2[°] Redy</u>		Disposable Extraction Dedicated Other: F 8	Port			
21-4 1 Case Volun	_(Gals.) X ne Spe	<u> </u>	s Calculated Volum	e 1" 2" 3"	0.04 4" 0.16 6" 0.37 Other	0.65 1.47 radius ² * 0.163			
Time *	Temp. (°F or	pH	Conductivity (mS or	Turbidity (NTU)	Gals. Removed	DTW: Observations			
1040	21-1	7-48	748.0	27	initial	56.80 5			
1046	20.6	8.16	735.2	6	21.5	56-80 6			
1051	226	6.96	742.2	5	43	56.80 6			
1056	21.8	7.13	738.4	5	64.5	56.80 6			
24 1				Final DT	W- 56-84				
Did well o	dewater?	Yes	ND		ای evacuated:	(-5			
Sampling	Time: (102			Sampling Date: 7 25 07					
	D.: 35/1E1			Laboratory:		CET)			
Analyzed	•	H-G BTEX	MTBE TPH-D	Other: See Cox					
Equipmen	nt Blank I.D).:	6	Duplicate I.D.					
Analyzed	for: TP	H-G BTEX	MTBE TPH-D	Other:	······································				
D.O. (if re	eq'd):		Pre-purge:	^{mg} / _L	Post-purge:	^{mg} / _L			
ORP (if re	eq'd):		Pre-purge:	mV	Post-purge:	mV			
· · · · · · · · · · · · · · · · · · ·	-				· · · · · · · · · · · · · · · · · · ·	L			

WELL MONITORING DATA SHEET

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