

# E&B NATURAL RESOURCES MANAGEMENT CORPORATION

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July 14, 2017

Ms. Dilan Roe  
Alameda County Environmental Health  
Cleanup Oversight Program  
1131 Harbor Bay Parkway  
Alameda, CA 94502

**RECEIVED**

By Alameda County Environmental Health 3:48 pm, Jul 14, 2017

**RE: RO0003181 – G.I.G. Addendum to Remedial Soil Excavation, May 9, 2017 Groundwater  
Monitoring and Request for Case Closure**

Ms. Roe:

Enclosed is E&B Natural Resources Management's *Report: Addendum to Remedial Soil Excavation, May 9, 2017 Groundwater Monitoring and Request for Case Closure* ("Report") for its G.I.G. facility. The Report will also be uploaded to the GeoTracker database for Site ID T10000007269.

*"I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge."*

Sincerely,



Jennifer Brady  
Environmental Compliance Coordinator  
E&B Natural Resources Management Corp.

**REPORT:**  
**ADDENDUM TO REMEDIAL SOIL EXCAVATION,  
MAY 9, 2017 GROUNDWATER MONITORING AND  
REQUEST FOR CASE CLOSURE**

**G.I.G. OIL PRODUCTION FACILITY  
G.I.G. LEASE, LIVERMORE OIL FIELD  
Section 7, T3S, R3E, MDB&M  
8467 Patterson Pass Road, Livermore  
Alameda County, California**

*Prepared for:*

*E&B Natural Resources Management Corporation  
1600 Norris Road  
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*Prepared by:*

**BOOHER CONSULTING  
3287 Congressional Court  
Fairfield, CA 94534**

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*Jeff L. Monroe  
Project Geologist*



*David L. Bush, PG 8989  
Professional Geologist*



*July 10, 2017*

**Addendum to Remedial Soil Excavation, May 2017 Groundwater Monitoring,  
and Request for Case Closure**

**G.I.G. Lease, Livermore Oil Field, Section 7, T3S, R3E, MDB&M  
8467 Patterson Pass Road, Livermore, Alameda County, California**

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## **INTRODUCTION**

This Addendum to Remedial Soil Excavation and May 9, 2017 Groundwater Monitoring Report (Report) has been prepared by Booher Consulting to supplement the Additional Remedial Soil Excavation Report dated May 27, 2016 for E&B Natural Resources Management Corporation (E&B). This Report documents the final removal of shallow soils impacted with residual crude oil that had been left in place adjacent to the former power pole at the western end of the former excavation limits. Alameda County Department of Environmental Health (ACDEH)'s case number for this facility is RO-0003181.

Since residual oil impacts were identified along the western end of the previously completed remedial soil excavation, as described in Robert A. Booher (RAB) Consulting's Soil Remediation and Groundwater Investigation Report dated December 18, 2015, additional efforts were required by the ACDEH to further delineate and remove soils, as feasible, impacted with residual crude oil in the vicinity of the power pole. As requested by ACDEH, RAB Consulting prepared the Work Plan Addendum dated February 19, 2016 to continue remedial excavation activities as opposed to advancing additional soil borings. Additional remedial soil excavation and confirmation soil sampling activities were performed on April 19 and 20, 2016 upon receiving ACDEH's conditional approval letter dated March 29, 2016. These activities were then documented in RAB Consulting's Additional Remedial Soil Excavation and Request for Case Closure dated May 27, 2016. This Report documents the relocation of the power pole and final phase of soil excavation and sampling activities performed on April 25, 2017.

The scope of work documented in this Report was implemented in accordance with E&B's September 16, 2015 Work Plan, subsequent October 5, 2015 and February 18, 2016 Work Plan Addendums, and conditions outlined in ACDEH's March 29, 2016 conditional approval letter.

This Report also describes the project activities completed to satisfy ACDEH's original request to further characterize, delineate and remove residual crude oil impacted soils, and continued assessment for the potential for groundwater impacts at the site.

During final excavation activities on April 25, 2017, the ACDEH representative Dilan Roe requested that E&B perform one more groundwater sampling and monitoring event for final closure. This Report also documents the results of the additional groundwater monitoring event conducted by Booher Consulting on May 9, 2017 of the existing three (3) shallow groundwater wells on the subject site.

The subject site is located at E&B's Greenville Investment Group (G.I.G.) oil well production facility located at 8467 Patterson Pass Road, Livermore, CA in Section 7, T3S, R3E, MDB&M, Alameda County, California, as shown on Figure 1 Vicinity Map. Photographs taken to document the most recent excavation activities are included in this Report in Attachment A.



**Addendum to Remedial Soil Excavation, May 2017 Groundwater Monitoring,  
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**G.I.G. Lease, Livermore Oil Field, Section 7, T3S, R3E, MDB&M  
8467 Patterson Pass Road, Livermore, Alameda County, California**

## **BACKGROUND**

The subject facility is within the Livermore Oil Field, located approximately two (2) miles east of Livermore, CA (Figure 1, Project Vicinity Map). The Livermore Oil Field was discovered in 1967 when McCulloch Oil Corporation drilled and completed the G.I.G. No. 1 well. E&B acquired a partial non-operating interest in the G.I.G. lease and facility in 2006 and assumed operations of the facility in 2008 (Figure 2, Site Plan).

In late March 2015, E&B decommissioned and removed an “out of service” 250 barrel stock tank at its G.I.G. oil well production facility. The former tank location was located near the southeast corner of the fenced facility. Since the removal of the stock tank, an above ground 300 barrel wash tank and 100 barrel produced water tank have also been decommissioned and removed from the facility.

During removal activities residual oil staining was observed on the ground surface and E&B commenced excavating shallow soils during April and May of 2015. The initial excavation was observed several times between April through June 2015 by ACDEH personnel, during which time E&B entered into a Voluntary Remedial Action Agreement with Alameda County. E&B then submitted Work Plans prepared by RAB Consulting to address further soil and groundwater investigation. Results of these activities are documented in RAB Consulting’s Soil Excavation and Groundwater Investigation Report dated December 18, 2015, and subsequent Monitoring Well Installation Report dated December 28, 2015. The groundwater investigation concluded that impacts in the soil have not impacted the groundwater, however, residual oil impacted soils remained in shallow soils along the western end of the previously completed remedial soil excavation, near the existing electrical utilities and power pole.

RAB Consulting completed additional remedial soil excavation activities on April 19 and 20, 2016, which further delineated and removed the residual crude oil impacted shallow soil in the vicinity of the existing power pole and electrical utility panel, as requested by ACDEH in their letter dated January 19, 2016. The results of the additional excavation and initial request for case closure was included in our report dated May 27, 2016.

## **Geology**

The site is located in the eastern portion of Livermore Valley, along the western edge of the Diablo Range. The elevation of the surrounding area ranges between 640 to 680 feet above mean sea level (MSL). Relatively shallow and surface soils consist of alluvial and fluvial deposits.

Rock units exposed in the area are Tertiary to Quaternary aged valley fill sediments of the Livermore Formation, the Tassajara Formation, the Miocene Neroly and Ceirobo Formations, the Eocene age Tesla Formation, the Cretaceous and older Franciscan Formation and the Great Valley Sequence. Within close proximity of the site (approximately 3.5 miles to the north and east-southeast), the Department of Oil, Gas and Geothermal Resources (DOGGR) has documented two (2) naturally occurring surface oil seeps in the general vicinity of the top of the

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Cierbo Formation. The Miocene and older formations have been extensively folded and faulted. The Greenville Fault is the youngest tectonic feature in the area, truncating all other structures, and lies within a mile of the subject site to the east. The Las Positas fault is approximately 1.2 miles to the southwest. The Corral Hollow Fault is located approximately 2 miles to the east of the site.

The sediments of the Livermore Valley overlie groundwater bearing aquifers that are generally composed of continental deposits from alluvial fans, valley fill deposits, and outwash plains. Domestic wells in the vicinity range in depths from 100-350 feet bgs, and municipal or irrigation wells range in depths of 315-810 feet bgs, although we did not identify municipal wells within 1,000 feet of the subject site.

RAB Consulting documented the location of nearby production wells within 1,000 feet of the subject site in our December 18, 2015 Report.

**ADDITIONAL REMEDIAL SOIL EXCAVATION APRIL 25, 2017**

Upon receiving verbal approval from Dilan Rode with ACDEH, the power pole was removed by PCM Construction on April 25, 2017. The additional soil excavation and sampling was completed in the vicinity of the former power pole location, adjacent to the western margins of the previous excavation performed April 20, 2016.

Additional excavation activities performed during the work on April 25, 2017 removed approximately 235 cubic yards of residual contaminant (crude oil) impacted soils. The total volume of soil that has been removed from the site during this remediation process is approximately 1,833 cubic yards. A comprehensive excavation and sample location map is presented on attached Figure 3 of this Report. Each phase of excavation shows the sample locations that were over-excavated as the excavation activities progressed.

The additional excavation after removing the power pole measured approximately 16' in width by 21' in length, and 15' in depth in the eastern portion of the excavation, sloping up to 8' in depth in the western portion of the excavation. Confirmation soil samples collected at various depths along the north and western sidewall of the additional excavation (SW65-d5.5, SW66-d5.0, SW67-d8.0), as well as two excavation bottom samples (XB9-d8.5 & XB10-d15.5), are presented on Figure 4 of this Report.

Visual, olfactory and organic vapor monitoring were completed during the additional excavation activities. The additional soil excavation continued from the south and western sidewall of the previous excavation, removing the soil in the area of the former power pole location, until confirmation soil samples indicated that concentrations met or were below SFBRWQCB's risk-based environmental screening levels (ESLs) from Revised February 2016 tables.

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## **CONFIRMATION SOIL SAMPLING**

Excavation sidewall and bottom confirmation soil samples were collected directly from the backhoe bucket using pre-cleaned, laboratory supplied stainless steel sample tubes. Sample tubes were pushed into the soil until zero head space was achieved, and the ends of the tubes were covered with Teflon sheeting prior to sealing the tubes with plastic end caps on both ends. Each confirmation soil sample was labeled, and the location was measured in depth and mapped to indicate the collection location within the excavation. Confirmation soil samples were designated SW65 through SW67, and XB9-10 with the sample number and depth (d) included with the sample identification.

Each confirmation soil sample was labeled, logged onto a Chain-of-Custody form, and placed into a cooler with frozen “blue ice” for transport to a subcontracted, State Certified analytical laboratory for analysis of site contaminants of concern as described in a following section of this Report. Soil sample analytical summaries of the recent excavation soil samples are found in Table 1, with the ESLs listed, attached to this Report.

## **EXCAVATED SOIL WASTE MANAGEMENT**

Approximately 140 cubic yards of excavated soils were either loaded directly into trucks and transported to Waste Management’s Altamont Landfill for disposal, and/or stockpiled on and covered with plastic sheeting (visqueen) pending later transportation to Waste Management’s Altamont Landfill. Analytical results from soil samples collected during the excavation activities were used to characterize and receive approval #624500CA for class II cap material disposal at Waste Management’s Altamont Landfill, Livermore, California. Non-Hazardous Waste Manifests documenting the proper management of all excavated soils are included in this Report in Attachment B.

## **EXCAVATION BACKFILL ACTIVITIES**

The excavation was backfilled in approximately eight (8) inch lifts and compacted to a minimum of 85% relative compaction with clean imported material from Tiecard Quarry in Tracy. The import material was sampled as recommended by the Information Advisory, Clean Imported Fill Material (DTSC2001) as requested by ACDEH. Samples recently collected from the import material was designated CF8. Analytical reports were submitted to ACDEH for review and approval prior to scheduling backfilling activities. The laboratory analytical reports for the excavation activities documented in this Report are included in Attachment C.

## **MAY 9, 2017 GROUNDWATER MONITORING**

### **Groundwater Sampling**

On May 9, 2017, Booher Consulting traveled to the site to perform the May 9, 2017 groundwater monitoring event of the shallow groundwater monitoring wells MW-1, MW-2, and MW-3 (Figure 5, attached).

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Prior to purging each well, the static water level was measured to the nearest 0.01 ft (relative to the TOC reference point on each monitoring well) with an electronic water level sounder. After calculating the well casing volume, at least 3 volumes was purged from the well at low-flow using dedicated electric purge pumps and Teflon lined tubing for each well. Water quality characteristics (temperature, pH, TDS, and turbidity) were measured during purging, and recorded on the attached sampling data sheets (Attachment D).

After water quality parameters stabilized and a minimum of three (3) wells volumes were evacuated from each well, groundwater samples were collected. Groundwater samples were decanted into laboratory supplied containers appropriate for the required analysis directly from the discharge point of the purge pump at low-flow to minimize degassing and collect representative formation groundwater (as opposed to using a bailer).

Field and laboratory quality control (QC) procedures for groundwater monitoring included the following:

- Dedicated, certified clean electric purge pumps and new Teflon lined poly tubing was used at each well location to minimize the potential for cross contamination;
- Gloves were worn at all times during the monitoring well sampling, and changed prior to each sample collected;
- Groundwater samples were decanted in pre-cleaned, certified laboratory provided containers appropriate for the required analysis;
- Groundwater samples were labeled, logged onto a chain of custody form and placed into an ice chest for transport to the State Certified laboratory for analysis.

### **Purged Water**

Well purge water was contained in 55-gallon DOT drums pending analytical results. The drums were labeled and stored on site. Booher Consulting will prepare a letter with proper waste documentation that will be submitted under separate cover.

### **Groundwater Gradient**

Using the monitoring well elevations produced by our subcontracted Professional Land Surveyor Kier & Wright, the local, shallow groundwater gradient was calculated. The local shallow groundwater gradient beneath the subject site on May 9, 2017 was 0.0876 ft/ft, N87W. The groundwater gradient map is included in this Report in Figure 5.

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## **LABORATORY ANALYSIS**

Excavation confirmation soil samples were collected during excavation activities and analyzed for the following constituents: CAM 17 Metals (EPA 6010), volatile organic compounds (EPA 8260B), semi-volatile organic compounds including PCBs (EPA 8270C), and total recoverable hydrocarbons calculated as gasoline, diesel and motor oil (EPA 8015). Import soils were additionally analyzed for toxicity screening 96-hour fish-bioassay. Sample Analytical laboratory results and QA/QC reports from the latest excavation samples are included in this Report in Attachment E. Previous sampling activities including the soil borings and monitoring well sampling sample analytical results are included as previously mentioned in Table 2.

## **CONCLUSIONS**

Based on the analytical results of the confirmation soil samples collected from the additional remedial soil excavation at the subject site as described in this Report, the activities proved successful in removing remaining residual crude oil impacted soils in the area of the former power pole. Confirmation soil samples SW65d5.0, SW66d5.5, SW67d8.0, XB9d8.5, and XB10d15.5 (collected on the sidewalls and bottom of excavation in area of former power pole as shown on Figure 4) resulted in *no detections* TPH-gasoline, TPH-diesel and TPH-motor oil, or VOC's and Semi-VOC's (Table 1 attached, and Attachment C). Additionally, metals detected from the confirmation sidewall and bottom samples resulted in concentrations within background range for this region (Figure 4 and Table 1).

Analytical results of confirmation soil sidewall and bottom samples collected from the final limits of the remedial excavation (Figure 3) indicate that residual soil impacts have been removed to no detections or concentrations below published SFBRWQCB February 2016 ESL's on the subject site.

Additionally, based on the analytical results of groundwater monitoring, there were *no detections* of compounds analyzed for including TPH-gasoline, TPH-diesel, TPH-motor oil, VOC's, and CAM 17 Metals.

Based on the analytical results of final excavation confirmation soil samples collected in the area of the former power pole, that remedial soil excavation activities completed at this site have successfully removed shallow soils impacted with residual crude oil.

In addition to the remedial soil excavation at this site, groundwater monitoring of the three (3) shallow wells onsite (Figure 5) resulted in no detections of compounds analyzed for.

Finally, Booher Consulting collected groundwater samples from nearby domestic water supply wells, as described and presented in previous reports submitted to the ACDEH, resulting in no detections of compounds analyzed for.

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## **RECOMMENDATIONS**

Based on analytical results of the additional remedial soil excavation in the area of the former power pole as described in this Report, along with previous excavation efforts and analytical results as documented in our previously submitted reports, the remedial soil excavation has proved successful in removing shallow soil impacted by residual crude oil at this site.

Additionally, based on our groundwater sampling of the shallow monitoring wells MW-1, MW-2, and MW-3 during this and our previous sampling event in January 2016 resulting no detections of compounds analyzed for, as well as the analytical results of nearby domestic water supply wells resulting in no residual impacts, our investigation indicates that shallow and deeper groundwater has not been impacted by residual contaminants from the crude oil at the subject site.

In closing, based on the analytical results of confirmation soil samples collected during the course of the remedial soil excavation (included removal and disposal of approximately 1833 cy of soil), as well as from the groundwater investigation completed during this investigation, Booher Consulting recommends the ACDEH consider this site investigation for case closure.

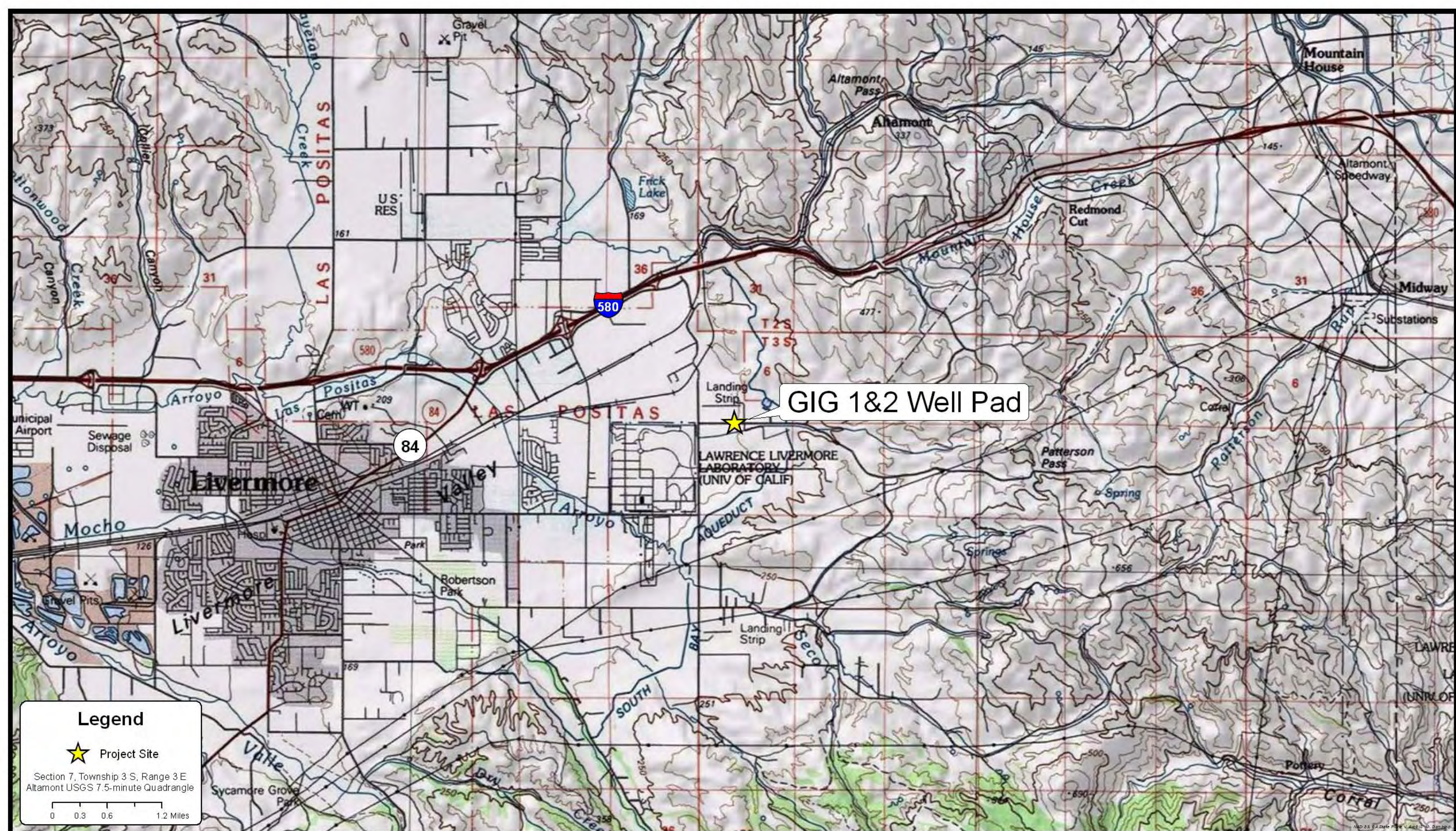
## **LIMITATIONS**

The work to investigate and remediate residual shallow soil contamination, as well as the groundwater investigation completed at this site, was completed in accordance with generally accepted procedures for environmental soil and groundwater investigations and remediation conducted at this time and in this geographic area. No other guarantees or warranties, express or implied are provided.

The excavation, confirmation soil sampling and testing program and groundwater monitoring were intended to provide an assessment of potential soil groundwater contamination for specific compounds, at specific locations, and depths, and at specific times. Case closure of the soil and groundwater investigation and remediation by the ACDEH is separate from the final closure of the lease which will occur once the existing oil wells are abandoned. Also, this remediation was not intended to, nor was the scope of Booher Consulting's engagement on this project to, predict future on-site or off-site conditions or site use.

It is understood by the parties hereto that the Client who has requested this investigation and remediation will use the results for the stated purpose and no other purpose. No other use or disclosure is intended by Consultant. Client and current property owners agree to hold Consultant harmless for any inverse condemnation or devaluation of said property that may result if the Consultant's report or information generated is used for other purposes.





GIG 1&2 Well Pad

**Legend**

★ Project Site

Section 7, Township 3 S, Range 3 E  
Altamont USGS 7.5-minute Quadrangle

0 0.3 0.6 1.2 Miles

**FIGURE 1**  
**Project Vicinity Map**

Robert A. Booher Consulting  
Environmental Planning & Management  
3287 Congressional Court  
Fairfield, California 94534  
Telephone (707) 399-7835

E&B Natural Resources Management Corporation  
1600 Norris Road  
Bakersfield, California 93308





Patterson Pass Road

APN: 99A-1650-1-5

Access Road


GIG #2 Well

GIG #1 Well

Temporary Pipe Rack

### Legend

 Fencing/Site Plan Boundary

 Oil Production Wells

Section 7, Township 3 S, Range 3 E  
Altamont USGS 7.5-minute Quadrangle

Satellite Imagery Captured By Google Earth On 3-11-2017

0 20 40 80 Feet

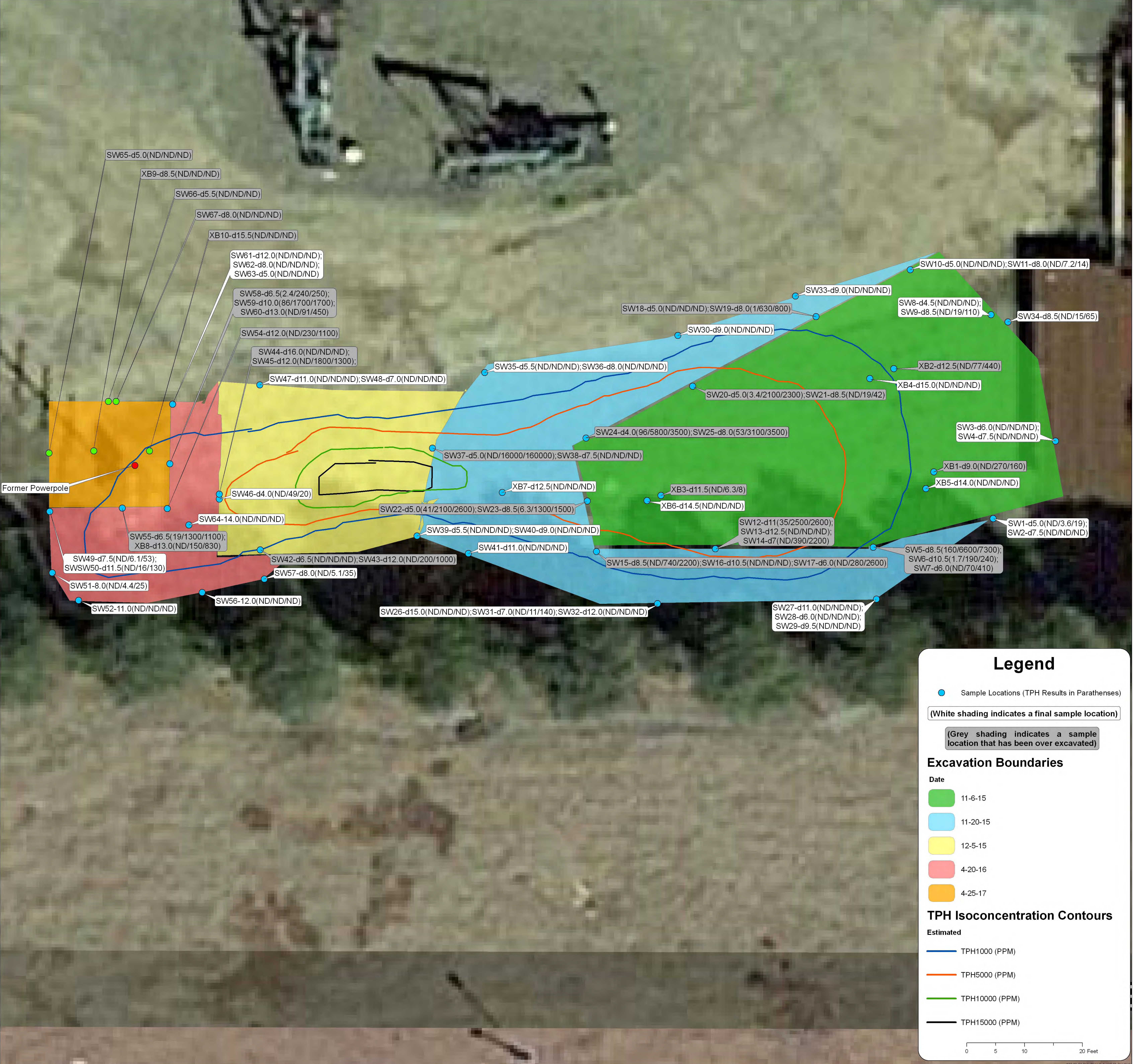
**FIGURE 2**  
**Site Plan**

Booher Consulting  
Environmental Planning & Management  
3287 Congressional Court  
Fairfield, California 94534  
Telephone (707) 399-7835

E&B Natural Resources Management Corporation  
1600 Norris Road  
Bakersfield, California 93308







### Legend

- Sample Locations (TPH Results in Paratheses)
- (White shading indicates a final sample location)
- (Grey shading indicates a sample location that has been over excavated)

#### Excavation Boundaries

Date

- 11-6-15
- 11-20-15
- 12-5-15
- 4-20-16
- 4-25-17

#### TPH Isoconcentration Contours

Estimated

- TPH1000 (PPM)
- TPH5000 (PPM)
- TPH10000 (PPM)
- TPH15000 (PPM)

0 5 10 20 Feet

**FIGURE 3**  
**Comprehensive Excavation and Sample Location Map**





**FIGURE 4**  
**4-25-17 Final Excavation Location**

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**Legend**

● Monitoring Well Locations

Section 7, Township 3 S, Range 3 E  
Altamont USGS 7.5-minute Quadrangle

0 5 10 20 Feet

**FIGURE 5**  
**Monitoring Well Location and Groundwater Gradient Map**

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E&B Natural Resources Management Corporation  
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**Table 1**  
**04/25/17 Excavation and Clean Fill (CF) Sample Analytical Summary/ESLs**

Sample ID Depth	Date Sampled	TPHg	TPHd	TPHmo	VOC's 8260	Semi-VOC's 8270	CAM 17 Metals (TTLIC)																
							Sb	As^^	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
XB9-d8.5	4/25/2017	ND<1	ND<10	ND<20	ND<.005	ND<.1	ND<.2	2.9	270	0.27	0.092	11	4.5	6.2	3.4	ND<..05	ND<.05	11	ND<3	0.13	ND<.5	19	18
XB10-d15.5	4/25/2017	ND<1	ND<10	ND<20	ND<.005	ND<.1	ND<.2	4.1	260	0.31	ND<.04	13	5.8	8.5	3.9	ND<.05	0.05	16	ND<3	0.13	ND<.5	24	21
SW65-d5.0	4/25/2017	ND<1	ND<10	ND<20	ND<.005	ND<.1	ND<.2	3	280	0.36	ND<.04	16	6.7	9.7	5.1	ND<.05	ND<.05	19	1.2	0.13	ND<.5	25	27
SW66-d5.5	4/25/2017	ND<1	ND<10	ND<20	ND<.005	ND<.1	ND<.2	3.7	230	0.38	ND<.04	18	6.4	7.6	5	ND<.05	0.058	22	ND<3	0.18	ND<.5	28	25
SW67-d-d8.0	4/20/2016	ND<1	ND<10	ND<20	ND<.005	ND<.1	ND<.2	4	140	0.26	ND<.04	30	8.5	20	6.5	0.064	ND<.05	34	ND<3	0.23	ND<.5	26	41
CF8	4/20/2016	ND<1	ND<10	ND<20	ND<.005	ND<.1	ND<.2	3.6	170	0.28	ND<.04	32	9.4	22	7.1	0.59	ND<.05	33	ND<3	0.22	ND<.5	28	42
<b>SFB-RWQCB ESL's</b>		<b>100</b>	<b>230</b>	<b>5100</b>	<b>Various^</b>	<b>Various^</b>	<b>31</b>	<b>0.067</b>	<b>3000</b>	<b>42</b>	<b>39</b>	<b>120000#</b>	<b>23</b>	<b>3100</b>	<b>80</b>	<b>13</b>	<b>390</b>	<b>86</b>	<b>390</b>	<b>390</b>	<b>0.78</b>	<b>390</b>	<b>2300</b>

**NOTES:**

Analytical Results in mg/kg; TPH = Total Petroleum Hydrocarbons; VOC = Volatile Organic Compounds

ND = Not Detected at or above Laboratory Detection Limits

ESL = Environmental Screening Limits based on Tier 1 SFB-RWQCB Feb 2016 (3rd Revision)

Concentration in red if exceeded ESL

^ There were no detections of VOC or SVOC compounds that exceeded the published SFB-RWQCB ESL for these compounds.

^^Concentrations of Arsenic detected in soil samples are consistent with background soils for this region.

# Total Chromium has no limit, ESL shown is for Chromium III, Chromium VI ESL is 0.3

Fish-Bioassay run for CF8 results passed

**Table 2**  
**Analytical Summary - Monitoring Well Sampling**

Sample ID Depth	Date Sampled	TPA-g	TPH d	TPH MO	VOC's 8260	CAM 17 Metals (TTLIC)																
						Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mg	Mo	Ni	Se	Ag	Ti	V	Zn
MW-1	1/12/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-1	5/9/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-2	1/12/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-2	5/9/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-3	1/12/2016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-3	5/9/2017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Note: Water Samples in ug/L unless noted  
 TPH=Total Petroleum Hydrocarbons as gas(g), diesel(d) and motor oil(mo)  
 VOC=Volatile Organic Compounds  
 \* Refer to Attached Analytical Report in Attachment E of this Report for Reporting Limits

# **ATTACHMENT A**

*Excavation Site Photos*





**Photograph 1:**  
Facing south at the power pole removal prior to excavation activities.



**Photograph 2:**  
Final excavation activities to remove oil impacted soils in former power pole vicinity.





**Photograph 3:**  
Facing east at excavation, former import fill against east and south excavation wall.



**Photograph 4:**  
Final west extent of excavation.



# **ATTACHMENT B**

*Waste Manifests*



WEIGHMASTER-Altamont Landfill & RRF  
 10940 Altamont Pass Road  
 Livermore, CA, 94551  
 Ph: (925)455-7300

Original  
 Ticket# 1175550

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN Altamont Generic  
 Ticket Date 04/25/2017 Vehicle# 9d24531  
 Payment Type / Credit Account Container  
 Manual Ticket# PCM EXCA2032DT  
 Billing # 0388847 License#

Manifest was  
 PO  
 Profile 624500CA (HYDROCARBON IMPACTED SOIL)  
 Generator 164-EB NATURAL RESOURCES E&B NATURAL RESOURCES (8467 PATTERSON PSS RD)

Time  
 In 04/25/2017 08:37:31  
 Out 04/25/2017 09:13:24



Inbound Gross 46520 lb  
 Tare 22180 lb\*  
 Net 24340 lb  
 Tons 12.17

Comments

WASTE MANAGEMENT

*R*

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Disp SPW-Tons-W	100	12.17	Tons				Alameda
2 RCR-P-Regulatory C	100		%				
3 FUEL-Fuel Surcharg	100		%				
4 EVF-L-Standard Env	100	1	Load				
5 WWM-P-Waste Water	100		%				

DRIVER: *[Signature]*

Total Tax

Total Ticket

**WEIGHMASTER CERTIFICATE**

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WEIGHMASTER-Altamont Landfill & RRF  
 10840 Altamont Pass Road  
 Livermore, CA, 94551  
 Ph: (925)455-7300

Original  
 Ticket# 1175586

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN Altamont Generic  
 Ticket Date 04/25/2017 Vehicle# 9d24531  
 Payment Type Credit Account Container  
 Manual Ticket# PCM EXCA2032DT  
 Billing # 0388847 License#

Manifest was  
 PO

Profile 624500CA (HYDROCARBON IMPACTED SOIL)  
 Generator 164-EB NATURALRESOURCES E&B NATURAL RESOURCES (8467 PATTERSON PSS RD)

Time  
 In 04/25/2017 10:06:50  
 Out 04/25/2017 10:06:50



Inbound Gross 48260 lb  
 Tare 22180 lb  
 Net 26080 lb  
 Tons 13.04

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Disp SPW-Tons-W	100	13.04	Tons				Alameda
2 RCR-P-Regulatory C	100		%				Alameda
3 FUEL-Fuel Surcharg	100		%				Alameda
4 EVF-L-Standard Env	100	1	Load				Alameda
5 WMM-P-Waste Water	100		%				Alameda

DRIVER: 

Total Tax  
 Total Ticket

**WEIGHMASTER CERTIFICATE**

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WEIGHMASTER-Altamont Landfill & RRF  
 10040 Altamont Pass Road  
 Livermore, CA, 94551  
 Ph: (925)455-7300

Original  
 Ticket# 1175600

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN Altamont Generic  
 Ticket Date 04/25/2017 Vehicle# 9d24531  
 Payment Type Credit Account Container  
 Manual Ticket# PCM EXCA2032DT  
 Billing # 0300047 License#

Manifest wa  
 PO  
 Profile 624500CA (HYDROCARBON IMPACTED SOIL)  
 Generator 164-EB NATURALRESOURCES E&B NATURAL RESOURCES (8467 PATTERSON PSS RD)

Time  
 In 04/25/2017 11:08:16  
 Out 04/25/2017 11:08:16



Gross 41900 lb  
 Tare 22100 lb  
 Net 19800 lb  
 Tons 9.90

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Disp SPW-Tons-W	100	9.90	Tons				Alameda
2 RCR-P-Regulatory C	100		X				Alameda
3 FUEL-Fuel Surcharg	100		X				Alameda
4 EVF-L-Standard Env	100	1	Load				Alameda
5 WMM-P-Waste Water	100		X				Alameda

DRIVER:

Total Tax  
 Total Ticket

**WEIGHMASTER CERTIFICATE**

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WEIGHMASTER-Altamont Landfill & PRF  
 10840 Altamont Pase Road  
 Livermore, CA, 94551  
 Ph: (925)455-7300

Original  
 Ticket# 1175626

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN Altamont Generic  
 Ticket Date 04/25/2017 Vehicle# 9d24531  
 Payment Type Credit Account Container  
 Manual Ticket# PCM EXCA2032DT  
 Billing # 0388847 License#

Manifest wan  
 PO  
 Profile 624500CA (HYDROCARBON IMPACTED SOIL)  
 Generator 164-EB NATURALRESOURCES E&B NATURAL RESOURCES (8467 PATTERSON PSS RD)

Time  
 In 04/25/2017 12:01:21  
 Out 04/25/2017 12:01:21



ca. Deleted Weighmaster Inbound  
 Gross 44180 lb  
 Tare 22100 lb  
 Net 22080 lb  
 Tons 11.00

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Disp SPW-Tons-W	100	11.00	Tons				Alameda
2 RCR-P-Regulatory C	100		%				Alameda
3 FUEL-Fuel Surcharg	100		%				Alameda
4 EVF-L-Standard Env	100	1	Load				Alameda
5 WWM-P-Waste Water	100		%				Alameda

DRIVER:

Total Tax  
 Total Ticket

**WEIGHMASTER CERTIFICATE**

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WEIGHMASTER-Altamont Landfill & RRF  
 10840 Altamont Pass Road  
 Livermore, CA, 94551  
 Ph: (925)455-7300

Original  
 Ticket# 1175655

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN Altamont Generic  
 Ticket Date 04/25/2017 Vehicle# 9d24531  
 Payment Type Credit Account Container  
 Manual Ticket# PCM EXCA2032DT  
 Billing # 0388847 License#

Manifest wan  
 PG  
 Profile 624500CA (HYDROCARBON IMPACTED SDIL)  
 Generator 164-EB NATURALRESOURCES E&B NATURAL RESOURCES (8467 PATTERSON PGS RD)

Time  
 In 04/25/2017 13:12:11  
 Out 04/25/2017 13:12:11



Gross 45720 lb  
 Tare 22100 lb  
 Net 23540 lb  
 Tons 11.77

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Disp SPW-Tons-M	100	11.77	Tons				Alameda
2 RCR-P-Regulatory C	100		X				Alameda
3 FUEL-Fuel Surcharg	100		X				Alameda
4 EVF-L-Standard Env	100	1	Load				Alameda
5 WWM-P-Waste Water	100		X				Alameda

DRIVER:

Total Tax  
 Total Ticket

**WEIGHMASTER CERTIFICATE**

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WEIGHMASTER-Altamont Landfill & RRF  
 10840 Altamont Pass Road  
 Livermore, CA, 94551  
 Ph: (925)455-7300

Original  
 Ticket# 1175672

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN Altamont Generic  
 Ticket Date 04/25/2017 Vehicle# 9d24531  
 Payment Type Credit Account Container  
 Manual Ticket# PCM EXCA2032DT  
 Billing # 0388847 License#

Manifest wam  
 PO  
 Profile 624500CA (HYDROCARBON IMPACTED SOIL)  
 Generator 164-EB NATURAL RESOURCES E&B NATURAL RESOURCES (8467 PATTERSON PSS RD)

Time  
 In 04/25/2017 14:06:36  
 Out 04/25/2017 14:06:36



Inbound Gross 47460 lb  
 Tare 22180 lb  
 Net 25280 lb  
 Tons 12.64

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Disp SPW-Tons-W	100	12.64	Tons				Alameda
2 RCR-P-Regulatory C	100		%				Alameda
3 FUEL-Fuel Surcharg	100		%				Alameda
4 EVF-L-Standard Env	100	1	Load				Alameda
5 WWM-P-Waste Water	100		%				Alameda

DRIVER: 

Total Tax  
 Total Ticket

**WEIGHMASTER CERTIFICATE**

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WEIGHMASTER Altamont Landfill & RRF  
 10840 Altamont Pass Road  
 Livermore, CA, 94551  
 Ph: (925) 455-7300

Original  
 Ticket# 1175681

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN Altamont Generic  
 Ticket Date 04/25/2017 Vehicle# 9D13269  
 Payment Type Credit Account Container  
 Manual Ticket# PCM EXCA 2432WT  
 Billing # 0388847 License#

Manifest was  
 PO  
 Profile 624500CA (HYDROCARBON IMPACTED SOIL)  
 Generator 164-EB NATURALRESOURCES E&B NATURAL RESOURCES (8467 PATTERSON PSS RD)

Time  
 In 04/25/2017 14:17:43  
 Out 04/25/2017 14:43:59



Inbound Gross 69440 lb  
 Tare 33340 lb  
 Net 36100 lb  
 Tons 18.05

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Disp SPW-Tons-W	100	18.05	Tons	510			Alameda
2 RCR-P-Regulatory C	100		%				Alameda
3 FUEL-Fuel Surcharg	100		%				Alameda
4 EVF-L-Standard Env	100	1	Load				Alameda
5 WWM-P-Waste Water	100		%				Alameda

DRIVER: *Rich W*

Total Tax  
 7105 Ticket

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WEIGHMASTER-Altamont Landfill & RRF  
 10840 Altamont Pass Road  
 Livermore, CA, 94551  
 Ph: (925) 455-7300

Original  
 Ticket# 1175781

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN Altamont Generic  
 Ticket Date 04/26/2017 Vehicle# 6m48302  
 Payment Type Credit Account Container  
 Manual Ticket# PCM-1932 DT  
 Billing # 0388847 License#

Manifest PO was  
 Profile 624500CA (HYDROCARBON IMPACTED SOIL)  
 Generator 164-EB NATURALRESOURCES E&B NATURAL RESOURCES(8467 PATTERSON PSS RD)

Time  
 In 04/26/2017 08:10:30  
 Out 04/26/2017 08:23:05



Imbound Gross 42120 lb  
 Tare 21180 lb  
 Net 20940 lb  
 Tons 10.47

Comments

WASTE MANAGEMENT

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Disp SPW-Tons-W	100	10.47	Tons				Alameda
2 RCR-P-Regulatory C	100		%				Alameda
3 FUEL-Fuel Surcharg	100		%				Alameda
4 EVF-L-Standard Env	100	1	Load				Alameda
5 WWM-P-Waste Water	100		%				Alameda

DRIVER:

Total Tax  
 Total Ticket

**WEIGHMASTER CERTIFICATE**

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WEIGHMASTER-Altamont Landfill & RRF  
 10040 Altamont Pass Road  
 Livermore, CA, 94551  
 Ph: (925) 455-7300

Original  
 Ticket# 1175815

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN Altamont Generic  
 Ticket Date 04/26/2017 Vehicle# 9d24531  
 Payment Type Credit Account Container  
 Manual Ticket# PCM EXCA2032DT  
 Billing # 0388847 License#

Manifest HAM  
 PD  
 Profile 624500CA (HYDROCARBON IMPACTED SOIL)  
 Generator 164-EB NATURALRESOURCES E&B NATURAL RESOURCES (8467 PATTERSON PSS RD)

Time  
 In: 04/26/2017 09:35:47  
 Out: 04/26/2017 09:35:47



Inbound Gross 42300 lb  
 Tare 22180 lb  
 Net 20120 lb  
 Tons 10.06

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Disp SPW-Tons-W	100	10.06	Tons				Alameda
2 RCR-P-Regulatory C	100		%				Alameda
3 FUEL-Fuel Surcharg	100		%				Alameda
4 EVF-L-Standard Env	100	1	Load				Alameda
5 WWM-P-Waste Water	100		%				Alameda

DRIVER:

Total Tax

Total Ticket

**WEIGHMASTER CERTIFICATE**

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WEIGHMASTER-Altamont Landfill & RRF  
 10840 Altamont Pass Road  
 Livermore, CA, 94531  
 Ph: (925)455-7300

Original  
 Ticket# 1175840

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN Altamont Generic  
 Ticket Date 04/26/2017 Vehicle# 9d24531  
 Payment Type Credit Account Container  
 Manual Ticket# PCM EXCA2032DT  
 Billing # 0388847 License#

Manifest Name  
 PG  
 Profile 624500CA (HYDROCARBON IMPACTED SOIL)  
 Generator 164-EB-NATURALRESOURCES E&B NATURAL RESOURCES(8467 PATTERSON PSS RD)

Time  
 In 04/26/2017 10:27:19  
 Out 04/26/2017 10:27:19



Weightmaster Inbound  
 Gross 42920 lb  
 Tare 22180 lb  
 Net 20740 lb  
 Tons 10.37

Comments

Product	LDX	Qty	UDM	Rate	Tax	Amount	Origin
1 C2 Disp SPW-Tons-W	100	10.37	Tons				Alameda
2 RCR-P-Regulatory C	100		%				Alameda
3 FUEL-Fuel Surcharg	100		%				Alameda
4 EVF-L-Standard Env	100	1	Load				Alameda
5 WMM-P-Waste Water	100		%				Alameda

DRIVER: *BT*

Total Tax  
 Total Ticket

**WEIGHMASTER CERTIFICATE**

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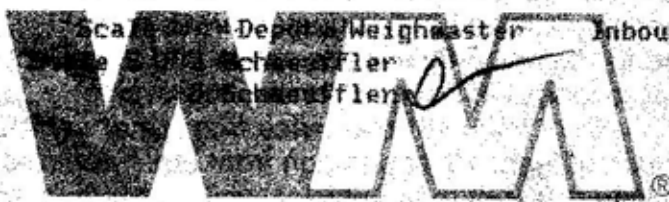
WEIGHMASTER-Altamont Landfill & RRF  
 10840 Altamont Pass Road  
 Livermore, CA, 94551  
 Ph: (925)455-7300

Original  
 Ticket# 1175854

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN-Altamont Generic  
 Ticket Date 04/26/2017 Vehicle# 9d24531  
 Payment Type Credit Account Container  
 Manual Ticket# PCM EXCA2032DT  
 Billing # 0388847 License#

Manifest wam  
 PO  
 Profile 624500CA (HYDROCARBON IMPACTED SOIL)  
 Generator 164-EB NATURALRESOURCES E&B NATURAL RESOURCES (8467 PATTERSON PSS RD)

Time  
 In 04/26/2017 11:17:27  
 Out 04/26/2017 11:17:27



Inbound Gross 43620 lb  
 Tare 22180 lb  
 Net 21440 lb  
 Tons 10.72

Comments

WASTE MANAGEMENT

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1	02 Disp 6PW-Tons-W	10.72	Tons				Alameda
2	RCR-P-Regulatory C		X				Alameda
3	FUEL-Fuel Surcharg		X				Alameda
4	EVF-L-Standard Env	1	Load				Alameda
5	WM-P-Waste Water		X				Alameda

DRIVER: *BT*

Total Tax  
 Total Ticket

**WEIGHMASTER CERTIFICATE**

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WEIGHMASTER-Altamont Landfill & RRF  
 10040 Altamont Pass Road  
 Livermore, CA, 94551  
 Ph: (925)455-7300

Original  
 Ticket# 1175858

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN Altamont Generic  
 Ticket Date 04/26/2017 Vehicle# 9d24531  
 Payment Type Credit Account Container  
 Manual Ticket# PCM EXCA2032DT  
 Billing # 0388847 License#

Manifest NAB  
 PG  
 Profile 624500CA (HYDROCARBON-IMPACTED SOIL)  
 Generator 154-EB NATURALRESOURCES E&B NATURAL RESOURCES (8467 PATTERSON PSS RD)

Time	Scale	Deputy Weighmaster	Inbound	Gross	40180 lb
In 04/26/2017 12:05:06	Scale 3 I I Schaeuffler	Schaeuffler		Tare	22180 lb
Out 04/26/2017 12:05:06				Net	18000 lb
				Tons	9.00

Comments



Product	Amount	Origin
1 E2 Disp SPW-Tons-W 100	9.00 Tons	Alameda
2 RER-P-Regulatory C 100	X	Alameda
3 FUEL-Fuel Surcharg 100	X	Alameda
4 EVF-L-Standard Env 100	1 Load	Alameda
5 WWM-P-Waste Water 100	X	Alameda

Total Tax  
 Total Ticket

DRIVER:

**WEIGHMASTER CERTIFICATE**

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WEIGHMASTER-Altamont Landfill & RRF  
 10840 Altamont Pass Road  
 Livermore, CA, 94551  
 Ph: (925)455-7300

Original  
 Ticket# 1175886

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN Altamont Generic  
 Ticket Date 04/26/2017 Vehicle# 9d24531  
 Payment Type Credit Account Container  
 Manual Ticket# PCM EXCA2032DT  
 Billing # 0388847 License#

Manifest wa  
 PD  
 Profile 624500CA (HYDROCARBON IMPACTED SOIL)  
 Generator 154-EB NATURALRESOURCES E&B NATURAL RESOURCES(8467 PATTERSON PSS RD)

Time  
 In 04/26/2017 12:52:47  
 Out 04/26/2017 12:52:47



Inbound Gross 45700 lb  
 Tare 22100 lb  
 Net 23520 lb  
 Tons 11.76

Comments

WASTE MANAGEMENT

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Disp SPW-Tons-W	100	11.76	Tons				Alameda
2 RCR-P-Regulatory C	100		%				
3 FUEL-Fuel Surcharg	100		%				
4 EVF-L-Standard Env	100	1	Load				
5 WWP-P-Waste Water	100		%				

DRIVER: BT

Total Tax  
 Total Ticket

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WEIGHMASTER-Altamont Landfill & RRF  
 10840 Altamont Pass Road  
 Livermore, CA, 94551  
 Ph: (925)455-7300

Original  
 Ticket# 1175906

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN Altamont Generic  
 Ticket Date 04/25/2017 Vehicle# 9d24531  
 Payment Type Credit Account Container  
 Manual Ticket# PCM EXCA2032DT  
 Billing # 0388847 License#

Manifest nam  
 PG  
 Profile 624500CA (HYDROCARBON IMPACTED SOIL)  
 Generator 164-EB NATURAL RESOURCES E&B NATURAL RESOURCES (1467 PATTERSON PSS RD)

Time  
 In 04/25/2017 13:45:54  
 Out 04/25/2017 13:45:54



Inbound Gross 43880 lb  
 Tare 22180 lb  
 Net 21700 lb  
 Tons 10.85

Comments

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Disp SPW-Tons-W	100	10.85	Tons				Alameda
2 RCR-P-Regulatory C	100		%				
3 FUEL-Fuel Surcharg	100		%				
4 EYE-L-Standard Env	100	1	Load				
5 WWM-P-Waste Water	100		%				

DRIVER:

Total Tax  
 Total Ticket

**WEIGHMASTER CERTIFICATE**

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WEIGHMASTER-Altamont Landfill & RRF  
 10840 Altamont Pass Road  
 Livermore, CA, 94551  
 Ph: (925)455-7300

Original  
 Ticket# 1175931

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN Altamont Generic  
 Ticket Date 04/26/2017 Vehicle# 9d24531  
 Payment Type Credit Account Container  
 Manual Ticket# PCM EXCA2032DT  
 Billing # 0388847 License#

Manifest was  
 PO  
 Profile 624500CA (HYDROCARBON IMPACTED SOIL)  
 Generator 164-EB NATURALRESOURCES E&B NATURAL RESOURCES (8467 PATTERSON PSS RD)

Time  
 In 04/26/2017 14:42:30  
 Out 04/26/2017 14:42:30



Inbound Gross 35740 lb  
 Tare 22180 lb  
 Net 13560 lb  
 Tons 6.78

Comments

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Disp SPW-Tons-W	100	6.78	Tons				Alameda
2 RCR-P-Regulatory C	100		%				Alameda
3 FUEL-Fuel Surcharg	100		%				Alameda
4 EVF-L-Standard Env	100	1	Load				Alameda
5 WM-P-Waste Water	100		%				Alameda

DRIVER:

Total Tax  
 Total Ticket

**WEIGHMASTER CERTIFICATE**

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**WEIGHMASTER-Altamont Landfill & RRF**  
 10840 Altamont Pass Road  
 Livermore, CA, 94551  
 Ph: (925)455-7300

Original  
 Ticket# 1175780

Customer Name **EBNATURALRESOURCES E AND B NA** Carrier **GEN Altamont Generic**  
 Ticket Date **04/26/2017** Vehicle# **9b44513**  
 Payment Type **Credit Account** Container  
 Manual Ticket#  
 Billing # **0388847** License#

Manifest **was**  
 PD  
 Profile **624500CA (HYDROCARBON IMPACTED SOIL)**  
 Generator **164-EB NATURALRESOURCES E&B NATURAL RESOURCES (8467 PATTERSON PSS RD)**

Time  
 In **04/26/2017 07:58:51**  
 Out **04/26/2017 11:30:07**



Impound  
 Gross **65560 lb**  
 Tare **30820 lb**  
 Net **34740 lb**  
 Tons **17.37**

Comments

**WASTE MANAGEMENT**

Product	LDX	Qty	UDM	Rate	Tax	Amount	Origin
1 C2 Disp SPW-Tons-W	100	17.37	Tons				Alameda
2 RCR-P-Regulatory C	100		%				Alameda
3 FUEL-Fuel Surcharg	100		%				Alameda
4 EYE-L-Standard Env	100	1	Load				Alameda
5 WWM-P-Waste Water	100		%				Alameda

DRIVER: *Kyle Han*

Total Tax  
 Total Ticket

**WEIGHMASTER CERTIFICATE**

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.



WEIGHMASTER-Alameda Landfill & RRF  
 10840 Alameda Pass Road  
 Livermore, CA, 94551  
 Ph: (925) 455-7300

Original  
 Ticket# 1175082

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN Alameda Generic  
 Ticket Date 04/26/2017 Vehicle# 6W48302  
 Payment Type Credit Account Container  
 Manual Ticket# PCM 1932 DT  
 Billing # 0388847 License#

Manifest was  
 PO  
 Profile 624500CA (HYDROCARBON IMPACTED SOIL)  
 Generator 164-EB NATURAL RESOURCES E&B NATURAL RESOURCES (2467 PATTERSON PSS RD)

Time  
 In 04/26/2017 12:45:44  
 Out 04/26/2017 12:45:44



Inbound Gross 42100 lb  
 Tare 21100 lb  
 Net 20920 lb  
 Tons 10.46

Comments

WASTE MANAGEMENT

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Disp SPW-Tons-W	100	10.46	Tons				Alameda
2 RCR-P-Regulatory C	100		X				Alameda
3 FUEL-Fuel Surcharg	100		X				Alameda
4 EVF-L-Standard Env	100	1	Load				Alameda
5 WWM-P-Waste Water	100		X				Alameda

DRIVER:

*Kyle Hance*

Total Tax  
 Total Ticket

**WEIGHMASTER CERTIFICATE**

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.



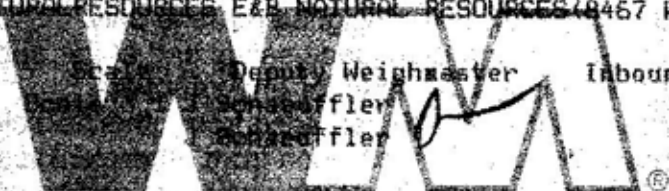
WEIGHMASTER-Altamont Landfill & RRF  
 10940 Altamont Pass Road  
 Livermore, CA, 94551  
 Ph: (925)455-7300

Original  
 Ticket# 1175901

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN Altamont Generic  
 Ticket Date 04/26/2017 Vehicle# 6W48302  
 Payment Type Credit Account Container  
 Manual Ticket# PCM 1932 DT  
 Billing # 0388847 License#

Manifest NAM  
 PO  
 Profile 624500CA (HYDROCARBON IMPACTED SOIL)  
 Generator 164-EB NATURAL RESOURCES E&B NATURAL RESOURCES (9467 PATTERSON PSS RD)

Time  
 In 04/26/2017 13:37:53  
 Out 04/26/2017 13:37:53

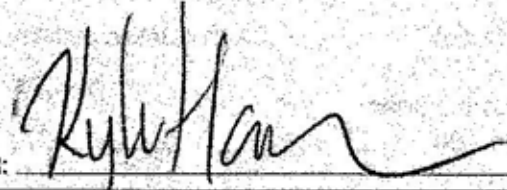


Gross 42920 lb  
 Tare 21180 lb  
 Net 21740 lb  
 Tons 10.87

Comments

WASTE MANAGEMENT

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Disp SPW-Tons-W	100	10.87	Tons				Alameda
2 RCR-P-Regulatory C	100		X				Alameda
3 FUEL-Fuel Surcharg	100		X				Alameda
4 EVF-L-Standard Env	100	1	Load				Alameda
5 WWP-P-Waste Water	100		X				Alameda

DRIVER: 

Total Tax  
 Total Ticket

**WEIGHMASTER CERTIFICATE**

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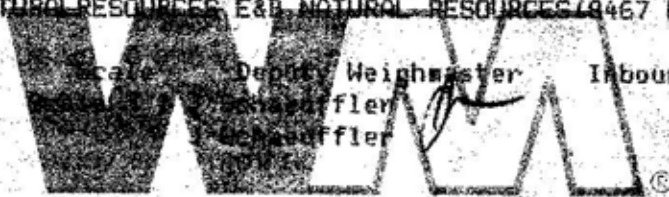
WEIGHMASTER-Altamont Landfill & RRF  
 10840 Altamont Pass Road  
 Livermore, CA, 94551  
 Ph: (925)455-7300

Original  
 Ticket# 1175923

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN Altamont Generic  
 Ticket Date 04/26/2017 Vehicle# 6m48302  
 Payment Type Credit Account Container  
 Manual Ticket# PCM 1932 DT  
 Billing # 0388847 License#

Manifest wam  
 PO  
 Profile 624500CA (HYDROCARBON IMPACTED SOIL)  
 Generator 164-EB NATURAL RESOURCES E&B NATURAL RESOURCES (9467 PATTERSON PSS RD)

Time  
 In 04/26/2017 14:26:37  
 Out 04/26/2017 14:26:37



Inbound Gross 41320 lb  
 Tare 21180 lb  
 Net 20140 lb  
 Tons 10.07

Comments

WASTE MANAGEMENT

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Disp SPW-Tons-W	100	10.07	Tons				Alameda
2 RCR-P-Regulatory C	100		%				Alameda
3 FUEL-Fuel Surcharg	100		%				Alameda
4 EVF-L-Standard Env	100	1	Load				Alameda
5 WWM-P-Waste Water	100		%				Alameda

DRIVER:

Total Tax  
 Total Ticket

**WEIGHMASTER CERTIFICATE**

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WEIGHMASTER-Altamont Landfill & RRF  
 10840 Altamont Pass Road  
 Livermore, CA, 94551  
 Ph: (925)455-7300

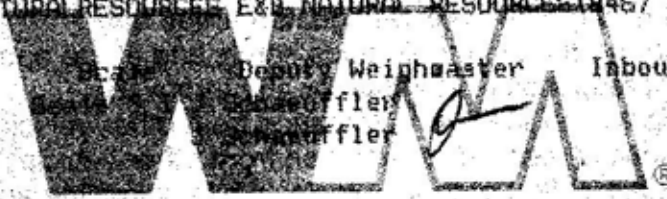
Original  
 Ticket# 1175916

Customer Name EBNATURALRESOURCES E AND B NA Carrier GEN Altamont Generic  
 Ticket Date 04/26/2017 Vehicle# 9D13269  
 Payment Type Credit Account Container  
 Manual Ticket# PCM EXCA 2432WT  
 Billing # 0388847 License#

Manifest wam  
 PG

Profile 624500CA (HYDROCARBON IMPACTED SOIL)  
 Generator 164-EB NATURAL RESOURCES E&B NATURAL RESOURCES (0467 PATTERSON PGS RD)

Time  
 In 04/26/2017 14:15:06  
 Out 04/26/2017 14:15:06



Inbound Gross 65380 lb  
 Tare 33340 lb  
 Net 32040 lb  
 Tons 16.02

Comments

WASTE MANAGEMENT

Product	LDX	Qty	UOM	Rate	Tax	Amount	Origin
1 C2 Disp SPW-Tons-W	100	16.02	Tons				Alameda
2 RCA-P-Regulatory C	100		X				Alameda
3 FUEL-Fuel Surcharg	100		X				Alameda
4 EYF-L-Standard Env	100	1	Load				Alameda
5 WWM-P-Waste Water	100		X				Alameda

DRIVER: *[Signature]*

Total Tax  
 Total Ticket

**WEIGHMASTER CERTIFICATE**

THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.



# **ATTACHMENT C**

*Excavation Analytical Laboratory Reports*





Date of Report: 05/30/2017

Jennifer Brady

E & B Natural Resources Management Corp.

34740 Merced Ave  
Bakersfield, CA 93308

Client Project: GIG  
BCL Project: Solid Analysis  
BCL Work Order: 1711138  
Invoice ID: B266732, B268833

Enclosed are the results of analyses for samples received by the laboratory on 4/26/2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Kerrie Vaughan  
Client Services

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Chain of Custody Form



Laboratories, Inc.

Report to: **E & B Natural Resources** Project #: **17-11138** Page **1** of **1**

Attn: **Jennifer Brady** Project Name: **E & B**

Street Address: **1401 Abrams Rd** Sampler(s): **Jeff Monroe**

City, State, Zip: **Bakersfield** Phone: **428-446** Fax: **monroe@bchresources.com**

Email Address: **jbrady@bchresources.com**

Sample #	Description	Date Sampled	Time Sampled
XB9-d8.5	Excavation -1	4/15/17	12:55
XB10-d15.5	Bo Tom		13:05
SUB-5-d-58	Excavation -3		12:57
SUB-7-d-50	sidewalls -2		12:59
SUB-7-d-80	sidewalls -3		13:03
CP-9	Clean Fill (Import)		13:10

Analysis Requested: **to the back of this page**

Comments: **Please email results to E & B and Jeff Monroe**

Are there any tests with holding times less than or equal to 48 hours?  Yes  No

\* Standard Turnaround = 10 work days

Notes: **24 hr PPA - g.d. me**  
**Normal TAT for all else**

**RUSH!**

CHK BY: **DISTRIBUTION**

Global ID (Needed for EDF): **7111138**

EDF Required? Geotracker:  Yes  No

Send Copy to State of CA? (EDT):  Yes  No

Client: **E & B Natural Resources Management**

Address: \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

City: \_\_\_\_\_

Attn: \_\_\_\_\_

PO#: \_\_\_\_\_

1. Relinquished By: **Jeff Monroe** Date: **4/17/17** Time: **10:18**

2. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

1. Received By: \_\_\_\_\_ Date: **4.20.17** Time: **10:18**

2. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

BC Laboratories, Inc. - 4100 Atlas Ct. - Bakersfield, CA 93308 - 661.327.4911 - Fax: 661.327.1918 - www.bclabs.com

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 17-11138

SHIPPING INFORMATION: Fed Ex, UPS, Ontrac, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO, W/S.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes/No.

All samples received? Yes/No. All samples containers intact? Yes/No. Description(s) match COC? Yes/No.

COC Received: YES/NO. Emissivity: 95. Container: Soil Sleeve. Thermometer ID: 208. Date/Time: 4-26-17. Temperature: (A) 13.2 C / (C) 13.2 C. Analyst Init: J.D. 10:18.

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT PE UNPRES, PT CYANIDE, etc. Handwritten 'A' marks are present in the sample number columns for the SOIL SLEEVE row.

Comments: No date/time on soil sleeves. Sample Numbering Completed By: [Signature]. Date/Time: 4-26-17 1100. Rev 21 05/23/2016



E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1711138-01	<b>COC Number:</b>	---	<b>Receive Date:</b>	04/26/2017 10:18
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	04/25/2017 12:55
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	XB9-d8.5 Excavation Bottom	<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Jeff Monroe	<b>Sample Type:</b>	Soil
	<hr/>			
1711138-02	<b>COC Number:</b>	---	<b>Receive Date:</b>	04/26/2017 10:18
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	04/25/2017 13:05
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	XB10-d15.5 Excavation Bottom	<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Jeff Monroe	<b>Sample Type:</b>	Soil
	<hr/>			
1711138-03	<b>COC Number:</b>	---	<b>Receive Date:</b>	04/26/2017 10:18
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	04/25/2017 12:57
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SW65-d5.5 Excavation Sidewalls	<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Jeff Monroe	<b>Sample Type:</b>	Soil
	<hr/>			
1711138-04	<b>COC Number:</b>	---	<b>Receive Date:</b>	04/26/2017 10:18
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	04/25/2017 12:59
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SW66-d5.0 Excavation Sidewalls	<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Jeff Monroe	<b>Sample Type:</b>	Soil
	<hr/>			
1711138-05	<b>COC Number:</b>	---	<b>Receive Date:</b>	04/26/2017 10:18
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	04/25/2017 13:03
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SW67-d8.0 Excavation Sidewalls	<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Jeff Monroe	<b>Sample Type:</b>	Soil
	<hr/>			
1711138-06	<b>COC Number:</b>	---	<b>Receive Date:</b>	04/26/2017 10:18
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	04/25/2017 13:10
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	CF-8 - Clean Fill (Import)	<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Jeff Monroe	<b>Sample Type:</b>	Soil
	<hr/>			

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1711138-01	<b>Client Sample Name:</b> XB9-d8.5 Excavation Bottom, 4/25/2017 12:55:00PM, Jeff Monroe
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Bromobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Bromochloromethane	ND	mg/kg	0.0050	0.00092	EPA-8260B			1
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B			1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
n-Butylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
sec-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
tert-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B			1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
2-Chlorotoluene	ND	mg/kg	0.0050	0.0018	EPA-8260B			1
4-Chlorotoluene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B			1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.0017	EPA-8260B			1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.0010	EPA-8260B			1
Dibromomethane	ND	mg/kg	0.0050	0.0018	EPA-8260B			1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B			1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B			1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B			1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1711138-01		Client Sample Name: XB9-d8.5 Excavation Bottom, 4/25/2017 12:55:00PM, Jeff Monroe						
Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
Ethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.0017	EPA-8260B			1
Isopropylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B			1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B			1
Naphthalene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
n-Propylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Styrene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
Tetrachloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Toluene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0021	EPA-8260B			1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0020	EPA-8260B			1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B			1
Trichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	2040		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
Total Xylenes	ND	mg/kg	0.010	0.0034	EPA-8260B			1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0022	EPA-8260B			1
o-Xylene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	91.4	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	106	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	86.1	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1711138-01	<b>Client Sample Name:</b> XB9-d8.5 Excavation Bottom, 4/25/2017 12:55:00PM, Jeff Monroe
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Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	04/28/17	04/28/17	15:35	ADC	MS-V2	1	B[D2813

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1711138-01		Client Sample Name: XB9-d8.5 Excavation Bottom, 4/25/2017 12:55:00PM, Jeff Monroe						
Constituent	Result	Units	PQL	MDL	Method	TTLT Limits	Lab Quals	Run #
Acenaphthene	ND	mg/kg	0.10	0.0092	EPA-8270C			1
Acenaphthylene	ND	mg/kg	0.10	0.018	EPA-8270C			1
Aldrin	ND	mg/kg	0.10	0.016	EPA-8270C	1.4		1
Aniline	ND	mg/kg	0.20	0.016	EPA-8270C			1
Anthracene	ND	mg/kg	0.10	0.050	EPA-8270C			1
Benzidine	ND	mg/kg	3.0	0.058	EPA-8270C			1
Benzo[a]anthracene	ND	mg/kg	0.10	0.041	EPA-8270C			1
Benzo[b]fluoranthene	ND	mg/kg	0.10	0.0094	EPA-8270C			1
Benzo[k]fluoranthene	ND	mg/kg	0.10	0.017	EPA-8270C			1
Benzo[a]pyrene	ND	mg/kg	0.10	0.026	EPA-8270C			1
Benzo[g,h,i]perylene	ND	mg/kg	0.10	0.011	EPA-8270C			1
Benzoic acid	ND	mg/kg	0.50	0.057	EPA-8270C			1
Benzyl alcohol	ND	mg/kg	0.10	0.0073	EPA-8270C			1
Benzyl butyl phthalate	ND	mg/kg	0.10	0.033	EPA-8270C			1
alpha-BHC	ND	mg/kg	0.10	0.035	EPA-8270C			1
delta-BHC	ND	mg/kg	0.10	0.018	EPA-8270C			1
gamma-BHC (Lindane)	ND	mg/kg	0.10	0.025	EPA-8270C	4.0		1
bis(2-Chloroethoxy)methane	ND	mg/kg	0.10	0.045	EPA-8270C			1
bis(2-Chloroethyl) ether	ND	mg/kg	0.10	0.026	EPA-8270C			1
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.10	0.015	EPA-8270C			1
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.20	0.032	EPA-8270C			1
Chrysene	ND	mg/kg	0.10	0.016	EPA-8270C			1
Dibenzo[a,h]anthracene	ND	mg/kg	0.10	0.019	EPA-8270C			1
Dibenzofuran	ND	mg/kg	0.10	0.013	EPA-8270C			1
Dieldrin	ND	mg/kg	0.10	0.031	EPA-8270C	8.0		1
Diethyl phthalate	ND	mg/kg	0.10	0.0073	EPA-8270C			1
Dimethyl phthalate	ND	mg/kg	0.10	0.0091	EPA-8270C			1
Di-n-butyl phthalate	ND	mg/kg	0.10	0.019	EPA-8270C			1
Di-n-octyl phthalate	ND	mg/kg	0.10	0.013	EPA-8270C			1
Endosulfan I	ND	mg/kg	0.20	0.062	EPA-8270C			1
Endosulfan II	ND	mg/kg	0.20	0.062	EPA-8270C			1
Endosulfan sulfate	ND	mg/kg	0.10	0.056	EPA-8270C			1
Endrin	ND	mg/kg	0.20	0.053	EPA-8270C	0.2		1

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Reported: 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

### Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1711138-01		Client Sample Name: XB9-d8.5 Excavation Bottom, 4/25/2017 12:55:00PM, Jeff Monroe						
Constituent	Result	Units	PQL	MDL	Method	TTLT Limits	Lab Quals	Run #
Endrin aldehyde	ND	mg/kg	0.50	0.044	EPA-8270C			1
Fluoranthene	ND	mg/kg	0.10	0.011	EPA-8270C			1
Fluorene	ND	mg/kg	0.10	0.013	EPA-8270C			1
Heptachlor	ND	mg/kg	0.10	0.024	EPA-8270C	4.7		1
Heptachlor epoxide	ND	mg/kg	0.10	0.065	EPA-8270C			1
Hexachlorobenzene	ND	mg/kg	0.10	0.012	EPA-8270C			1
Hexachlorobutadiene	ND	mg/kg	0.10	0.020	EPA-8270C			1
Hexachlorocyclopentadiene	ND	mg/kg	0.10	0.029	EPA-8270C			1
Hexachloroethane	ND	mg/kg	0.10	0.032	EPA-8270C			1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.10	0.013	EPA-8270C			1
Isophorone	ND	mg/kg	0.10	0.0099	EPA-8270C			1
Naphthalene	ND	mg/kg	0.10	0.0085	EPA-8270C			1
Nitrobenzene	ND	mg/kg	0.10	0.0098	EPA-8270C			1
N-Nitrosodimethylamine	ND	mg/kg	0.10	0.077	EPA-8270C			1
N-Nitrosodi-N-propylamine	ND	mg/kg	0.10	0.013	EPA-8270C			1
N-Nitrosodiphenylamine	ND	mg/kg	0.10	0.018	EPA-8270C			1
Phenanthrene	ND	mg/kg	0.10	0.034	EPA-8270C			1
Pyrene	ND	mg/kg	0.10	0.027	EPA-8270C			1
Pentachlorophenol	ND	mg/kg	0.20	0.031	EPA-8270C	17		1
Phenol	ND	mg/kg	0.10	0.015	EPA-8270C			1
PCB-1016	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1221	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1232	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1242	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1248	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1254	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1260	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1262	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1268	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
Total PCB's (Summation)	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
2-Fluorophenol (Surrogate)	63.4	%	20 - 130 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	64.7	%	30 - 130 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	63.6	%	30 - 130 (LCL - UCL)		EPA-8270C			1

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34740 Merced Ave  
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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

<b>BCL Sample ID:</b> 1711138-01	<b>Client Sample Name:</b> XB9-d8.5 Excavation Bottom, 4/25/2017 12:55:00PM, Jeff Monroe
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Constituent	Result	Units	PQL	MDL	Method	TTLCLimits	Lab Quals	Run #
2-Fluorobiphenyl (Surrogate)	70.0	%	30 - 140 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	61.8	%	20 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	69.5	%	30 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/26/17	04/28/17 13:54	MK1	MS-B1	1.003	B[D2697

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Total Petroleum Hydrocarbons

<b>BCL Sample ID:</b> 1711138-01	<b>Client Sample Name:</b> XB9-d8.5 Excavation Bottom, 4/25/2017 12:55:00PM, Jeff Monroe							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1
TPH - Motor Oil	ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	83.8	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	04/26/17	04/27/17 12:18	AS1	GC-2	1.010	B[D2645

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Total Concentrations (TTLIC)

BCL Sample ID: 1711138-01		Client Sample Name: XB9-d8.5 Excavation Bottom, 4/25/2017 12:55:00PM, Jeff Monroe						
Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	500		1
Arsenic	2.9	mg/kg	1.0	0.40	EPA-6010B	500		1
Barium	270	mg/kg	0.50	0.18	EPA-6010B	10000		1
Beryllium	0.27	mg/kg	0.50	0.047	EPA-6010B	75	J	1
Cadmium	0.092	mg/kg	0.50	0.052	EPA-6010B	100	J	1
Chromium	11	mg/kg	0.50	0.050	EPA-6010B	2500		1
Cobalt	4.5	mg/kg	2.5	0.098	EPA-6010B	8000		1
Copper	6.2	mg/kg	1.0	0.050	EPA-6010B	2500		1
Lead	3.4	mg/kg	2.5	0.28	EPA-6010B	1000		1
Mercury	ND	mg/kg	0.16	0.019	EPA-7471A	20		2
Molybdenum	ND	mg/kg	2.5	0.050	EPA-6010B	3500		1
Nickel	11	mg/kg	0.50	0.15	EPA-6010B	2000		1
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	100		1
Silver	0.13	mg/kg	0.50	0.067	EPA-6010B	500	J	1
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	700		1
Vanadium	19	mg/kg	0.50	0.11	EPA-6010B	2400		1
Zinc	18	mg/kg	2.5	0.087	EPA-6010B	5000		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-6010B	04/27/17	04/27/17	14:49	JCC	PE-OP3	0.971	B[D2593
2	EPA-7471A	04/28/17	04/28/17	11:57	MEV	CETAC2	1.025	B[D2727

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1711138-02	<b>Client Sample Name:</b> XB10-d15.5 Excavation Bottom, 4/25/2017 1:05:00PM, Jeff Monroe
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Constituent	Result	Units	PQL	MDL	Method	TTLT Limits	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Bromobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Bromochloromethane	ND	mg/kg	0.0050	0.00092	EPA-8260B			1
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B			1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
n-Butylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
sec-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
tert-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B			1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
2-Chlorotoluene	ND	mg/kg	0.0050	0.0018	EPA-8260B			1
4-Chlorotoluene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B			1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.0017	EPA-8260B			1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.0010	EPA-8260B			1
Dibromomethane	ND	mg/kg	0.0050	0.0018	EPA-8260B			1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B			1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B			1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B			1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1711138-02	<b>Client Sample Name:</b> XB10-d15.5 Excavation Bottom, 4/25/2017 1:05:00PM, Jeff Monroe
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Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
Ethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.0017	EPA-8260B			1
Isopropylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B			1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B			1
Naphthalene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
n-Propylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Styrene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
Tetrachloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Toluene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0021	EPA-8260B			1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0020	EPA-8260B			1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B			1
Trichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	2040		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
Total Xylenes	ND	mg/kg	0.010	0.0034	EPA-8260B			1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0022	EPA-8260B			1
o-Xylene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	96.9	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	83.3	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1711138-02	<b>Client Sample Name:</b> XB10-d15.5 Excavation Bottom, 4/25/2017 1:05:00PM, Jeff Monroe
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Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	04/28/17	04/28/17	15:57	ADC	MS-V2	1	B[D2813

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34740 Merced Ave  
Bakersfield, CA 93308

Reported: 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

### Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1711138-02		Client Sample Name: XB10-d15.5 Excavation Bottom, 4/25/2017 1:05:00PM, Jeff Monroe						
Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Acenaphthene	ND	mg/kg	0.10	0.0092	EPA-8270C			1
Acenaphthylene	ND	mg/kg	0.10	0.018	EPA-8270C			1
Aldrin	ND	mg/kg	0.10	0.016	EPA-8270C	1.4		1
Aniline	ND	mg/kg	0.20	0.016	EPA-8270C			1
Anthracene	ND	mg/kg	0.10	0.050	EPA-8270C			1
Benzidine	ND	mg/kg	3.0	0.058	EPA-8270C			1
Benzo[a]anthracene	ND	mg/kg	0.10	0.041	EPA-8270C			1
Benzo[b]fluoranthene	ND	mg/kg	0.10	0.0094	EPA-8270C			1
Benzo[k]fluoranthene	ND	mg/kg	0.10	0.017	EPA-8270C			1
Benzo[a]pyrene	ND	mg/kg	0.10	0.026	EPA-8270C			1
Benzo[g,h,i]perylene	ND	mg/kg	0.10	0.011	EPA-8270C			1
Benzoic acid	ND	mg/kg	0.50	0.057	EPA-8270C			1
Benzyl alcohol	ND	mg/kg	0.10	0.0073	EPA-8270C			1
Benzyl butyl phthalate	ND	mg/kg	0.10	0.033	EPA-8270C			1
alpha-BHC	ND	mg/kg	0.10	0.035	EPA-8270C			1
delta-BHC	ND	mg/kg	0.10	0.018	EPA-8270C			1
gamma-BHC (Lindane)	ND	mg/kg	0.10	0.025	EPA-8270C	4.0		1
bis(2-Chloroethoxy)methane	ND	mg/kg	0.10	0.045	EPA-8270C			1
bis(2-Chloroethyl) ether	ND	mg/kg	0.10	0.026	EPA-8270C			1
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.10	0.015	EPA-8270C			1
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.20	0.032	EPA-8270C			1
Chrysene	ND	mg/kg	0.10	0.016	EPA-8270C			1
Dibenzo[a,h]anthracene	ND	mg/kg	0.10	0.019	EPA-8270C			1
Dibenzofuran	ND	mg/kg	0.10	0.013	EPA-8270C			1
Dieldrin	ND	mg/kg	0.10	0.031	EPA-8270C	8.0		1
Diethyl phthalate	ND	mg/kg	0.10	0.0073	EPA-8270C			1
Dimethyl phthalate	ND	mg/kg	0.10	0.0091	EPA-8270C			1
Di-n-butyl phthalate	ND	mg/kg	0.10	0.019	EPA-8270C			1
Di-n-octyl phthalate	ND	mg/kg	0.10	0.013	EPA-8270C			1
Endosulfan I	ND	mg/kg	0.20	0.062	EPA-8270C			1
Endosulfan II	ND	mg/kg	0.20	0.062	EPA-8270C			1
Endosulfan sulfate	ND	mg/kg	0.10	0.056	EPA-8270C			1
Endrin	ND	mg/kg	0.20	0.053	EPA-8270C	0.2		1

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Bakersfield, CA 93308

Reported: 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

### Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1711138-02		Client Sample Name: XB10-d15.5 Excavation Bottom, 4/25/2017 1:05:00PM, Jeff Monroe						
Constituent	Result	Units	PQL	MDL	Method	TTLT Limits	Lab Quals	Run #
Endrin aldehyde	ND	mg/kg	0.50	0.044	EPA-8270C			1
Fluoranthene	ND	mg/kg	0.10	0.011	EPA-8270C			1
Fluorene	ND	mg/kg	0.10	0.013	EPA-8270C			1
Heptachlor	ND	mg/kg	0.10	0.024	EPA-8270C	4.7		1
Heptachlor epoxide	ND	mg/kg	0.10	0.065	EPA-8270C			1
Hexachlorobenzene	ND	mg/kg	0.10	0.012	EPA-8270C			1
Hexachlorobutadiene	ND	mg/kg	0.10	0.020	EPA-8270C			1
Hexachlorocyclopentadiene	ND	mg/kg	0.10	0.029	EPA-8270C			1
Hexachloroethane	ND	mg/kg	0.10	0.032	EPA-8270C			1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.10	0.013	EPA-8270C			1
Isophorone	ND	mg/kg	0.10	0.0099	EPA-8270C			1
Naphthalene	ND	mg/kg	0.10	0.0085	EPA-8270C			1
Nitrobenzene	ND	mg/kg	0.10	0.0098	EPA-8270C			1
N-Nitrosodimethylamine	ND	mg/kg	0.10	0.077	EPA-8270C			1
N-Nitrosodi-N-propylamine	ND	mg/kg	0.10	0.013	EPA-8270C			1
N-Nitrosodiphenylamine	ND	mg/kg	0.10	0.018	EPA-8270C			1
Phenanthrene	ND	mg/kg	0.10	0.034	EPA-8270C			1
Pyrene	ND	mg/kg	0.10	0.027	EPA-8270C			1
Pentachlorophenol	ND	mg/kg	0.20	0.031	EPA-8270C	17		1
Phenol	ND	mg/kg	0.10	0.015	EPA-8270C			1
PCB-1016	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1221	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1232	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1242	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1248	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1254	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1260	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1262	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1268	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
Total PCB's (Summation)	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
2-Fluorophenol (Surrogate)	71.0	%	20 - 130 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	69.7	%	30 - 130 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	67.0	%	30 - 130 (LCL - UCL)		EPA-8270C			1

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34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

<b>BCL Sample ID:</b> 1711138-02	<b>Client Sample Name:</b> XB10-d15.5 Excavation Bottom, 4/25/2017 1:05:00PM, Jeff Monroe
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Constituent	Result	Units	PQL	MDL	Method	TTLCLimits	Lab Quals	Run #
2-Fluorobiphenyl (Surrogate)	50.9	%	30 - 140 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	62.8	%	20 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	66.3	%	30 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/26/17	04/28/17 14:20	MK1	MS-B1	0.967	B[D2697

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Total Petroleum Hydrocarbons

<b>BCL Sample ID:</b> 1711138-02	<b>Client Sample Name:</b> XB10-d15.5 Excavation Bottom, 4/25/2017 1:05:00PM, Jeff Monroe							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1
TPH - Motor Oil	ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	85.3	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	04/26/17	04/27/17 12:42	AS1	GC-2	0.997	B[D2645

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Total Concentrations (TTLIC)

<b>BCL Sample ID:</b> 1711138-02	<b>Client Sample Name:</b> XB10-d15.5 Excavation Bottom, 4/25/2017 1:05:00PM, Jeff Monroe
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	500		1
Arsenic	4.1	mg/kg	1.0	0.40	EPA-6010B	500		1
Barium	260	mg/kg	0.50	0.18	EPA-6010B	10000		1
Beryllium	0.31	mg/kg	0.50	0.047	EPA-6010B	75	J	1
Cadmium	ND	mg/kg	0.50	0.052	EPA-6010B	100		1
Chromium	13	mg/kg	0.50	0.050	EPA-6010B	2500		1
Cobalt	5.8	mg/kg	2.5	0.098	EPA-6010B	8000		1
Copper	8.5	mg/kg	1.0	0.050	EPA-6010B	2500		1
Lead	3.9	mg/kg	2.5	0.28	EPA-6010B	1000		1
Mercury	ND	mg/kg	0.16	0.019	EPA-7471A	20		2
Molybdenum	0.050	mg/kg	2.5	0.050	EPA-6010B	3500	J	1
Nickel	16	mg/kg	0.50	0.15	EPA-6010B	2000		1
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	100		1
Silver	0.13	mg/kg	0.50	0.067	EPA-6010B	500	J	1
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	700		1
Vanadium	24	mg/kg	0.50	0.11	EPA-6010B	2400		1
Zinc	21	mg/kg	2.5	0.087	EPA-6010B	5000		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	04/27/17	04/27/17 14:50	JCC	PE-OP3	0.990	B[D2593
2	EPA-7471A	04/28/17	04/28/17 12:00	MEV	CETAC2	0.977	B[D2727

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1711138-03	<b>Client Sample Name:</b> SW65-d5.5 Excavation Sidewalls, 4/25/2017 12:57:00PM, Jeff Monroe
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Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Bromobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Bromochloromethane	ND	mg/kg	0.0050	0.00092	EPA-8260B			1
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B			1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
n-Butylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
sec-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
tert-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B			1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
2-Chlorotoluene	ND	mg/kg	0.0050	0.0018	EPA-8260B			1
4-Chlorotoluene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B			1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.0017	EPA-8260B			1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.0010	EPA-8260B			1
Dibromomethane	ND	mg/kg	0.0050	0.0018	EPA-8260B			1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B			1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B			1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B			1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1711138-03	<b>Client Sample Name:</b> SW65-d5.5 Excavation Sidewalls, 4/25/2017 12:57:00PM, Jeff Monroe
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Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
Ethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.0017	EPA-8260B			1
Isopropylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B			1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B			1
Naphthalene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
n-Propylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Styrene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
Tetrachloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Toluene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0021	EPA-8260B			1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0020	EPA-8260B			1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B			1
Trichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	2040		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
Total Xylenes	ND	mg/kg	0.010	0.0034	EPA-8260B			1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0022	EPA-8260B			1
o-Xylene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	105	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	93.1	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	85.6	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1711138-03	<b>Client Sample Name:</b> SW65-d5.5 Excavation Sidewalls, 4/25/2017 12:57:00PM, Jeff Monroe
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Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	04/28/17	04/28/17	16:20	ADC	MS-V2	1	B[D2813

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

<b>BCL Sample ID:</b> 1711138-03	<b>Client Sample Name:</b> SW65-d5.5 Excavation Sidewalls, 4/25/2017 12:57:00PM, Jeff Monroe
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Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Acenaphthene	ND	mg/kg	0.10	0.0092	EPA-8270C			1
Acenaphthylene	ND	mg/kg	0.10	0.018	EPA-8270C			1
Aldrin	ND	mg/kg	0.10	0.016	EPA-8270C	1.4		1
Aniline	ND	mg/kg	0.20	0.016	EPA-8270C			1
Anthracene	ND	mg/kg	0.10	0.050	EPA-8270C			1
Benzidine	ND	mg/kg	3.0	0.058	EPA-8270C			1
Benzo[a]anthracene	ND	mg/kg	0.10	0.041	EPA-8270C			1
Benzo[b]fluoranthene	ND	mg/kg	0.10	0.0094	EPA-8270C			1
Benzo[k]fluoranthene	ND	mg/kg	0.10	0.017	EPA-8270C			1
Benzo[a]pyrene	ND	mg/kg	0.10	0.026	EPA-8270C			1
Benzo[g,h,i]perylene	ND	mg/kg	0.10	0.011	EPA-8270C			1
Benzoic acid	ND	mg/kg	0.50	0.057	EPA-8270C			1
Benzyl alcohol	ND	mg/kg	0.10	0.0073	EPA-8270C			1
Benzyl butyl phthalate	ND	mg/kg	0.10	0.033	EPA-8270C			1
alpha-BHC	ND	mg/kg	0.10	0.035	EPA-8270C			1
delta-BHC	ND	mg/kg	0.10	0.018	EPA-8270C			1
gamma-BHC (Lindane)	ND	mg/kg	0.10	0.025	EPA-8270C	4.0		1
bis(2-Chloroethoxy)methane	ND	mg/kg	0.10	0.045	EPA-8270C			1
bis(2-Chloroethyl) ether	ND	mg/kg	0.10	0.026	EPA-8270C			1
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.10	0.015	EPA-8270C			1
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.20	0.032	EPA-8270C			1
Chrysene	ND	mg/kg	0.10	0.016	EPA-8270C			1
Dibenzo[a,h]anthracene	ND	mg/kg	0.10	0.019	EPA-8270C			1
Dibenzofuran	ND	mg/kg	0.10	0.013	EPA-8270C			1
Dieldrin	ND	mg/kg	0.10	0.031	EPA-8270C	8.0		1
Diethyl phthalate	ND	mg/kg	0.10	0.0073	EPA-8270C			1
Dimethyl phthalate	ND	mg/kg	0.10	0.0091	EPA-8270C			1
Di-n-butyl phthalate	ND	mg/kg	0.10	0.019	EPA-8270C			1
Di-n-octyl phthalate	ND	mg/kg	0.10	0.013	EPA-8270C			1
Endosulfan I	ND	mg/kg	0.20	0.062	EPA-8270C			1
Endosulfan II	ND	mg/kg	0.20	0.062	EPA-8270C			1
Endosulfan sulfate	ND	mg/kg	0.10	0.056	EPA-8270C			1
Endrin	ND	mg/kg	0.20	0.053	EPA-8270C	0.2		1

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

<b>BCL Sample ID:</b> 1711138-03	<b>Client Sample Name:</b> SW65-d5.5 Excavation Sidewalls, 4/25/2017 12:57:00PM, Jeff Monroe
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Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Endrin aldehyde	ND	mg/kg	0.50	0.044	EPA-8270C			1
Fluoranthene	ND	mg/kg	0.10	0.011	EPA-8270C			1
Fluorene	ND	mg/kg	0.10	0.013	EPA-8270C			1
Heptachlor	ND	mg/kg	0.10	0.024	EPA-8270C	4.7		1
Heptachlor epoxide	ND	mg/kg	0.10	0.065	EPA-8270C			1
Hexachlorobenzene	ND	mg/kg	0.10	0.012	EPA-8270C			1
Hexachlorobutadiene	ND	mg/kg	0.10	0.020	EPA-8270C			1
Hexachlorocyclopentadiene	ND	mg/kg	0.10	0.029	EPA-8270C			1
Hexachloroethane	ND	mg/kg	0.10	0.032	EPA-8270C			1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.10	0.013	EPA-8270C			1
Isophorone	ND	mg/kg	0.10	0.0099	EPA-8270C			1
Naphthalene	ND	mg/kg	0.10	0.0085	EPA-8270C			1
Nitrobenzene	ND	mg/kg	0.10	0.0098	EPA-8270C			1
N-Nitrosodimethylamine	ND	mg/kg	0.10	0.077	EPA-8270C			1
N-Nitrosodi-N-propylamine	ND	mg/kg	0.10	0.013	EPA-8270C			1
N-Nitrosodiphenylamine	ND	mg/kg	0.10	0.018	EPA-8270C			1
Phenanthrene	ND	mg/kg	0.10	0.034	EPA-8270C			1
Pyrene	ND	mg/kg	0.10	0.027	EPA-8270C			1
Pentachlorophenol	ND	mg/kg	0.20	0.031	EPA-8270C	17		1
Phenol	ND	mg/kg	0.10	0.015	EPA-8270C			1
PCB-1016	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1221	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1232	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1242	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1248	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1254	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1260	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1262	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1268	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
Total PCB's (Summation)	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
2-Fluorophenol (Surrogate)	62.6	%	20 - 130 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	70.7	%	30 - 130 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	71.4	%	30 - 130 (LCL - UCL)		EPA-8270C			1

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

<b>BCL Sample ID:</b> 1711138-03	<b>Client Sample Name:</b> SW65-d5.5 Excavation Sidewalls, 4/25/2017 12:57:00PM, Jeff Monroe
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Constituent	Result	Units	PQL	MDL	Method	TTLCLimits	Lab Quals	Run #
2-Fluorobiphenyl (Surrogate)	63.9	%	30 - 140 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	64.4	%	20 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	61.9	%	30 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/26/17	04/28/17 14:46	MK1	MS-B1	0.980	B[D2697

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34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Total Petroleum Hydrocarbons

BCL Sample ID: 1711138-03		Client Sample Name: SW65-d5.5 Excavation Sidewalls, 4/25/2017 12:57:00PM, Jeff Monroe						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1
TPH - Motor Oil	ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	88.4	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	04/26/17	04/27/17 13:06	AS1	GC-2	1.010	B[D2645

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34740 Merced Ave  
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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Total Concentrations (TTLIC)

<b>BCL Sample ID:</b> 1711138-03	<b>Client Sample Name:</b> SW65-d5.5 Excavation Sidewalls, 4/25/2017 12:57:00PM, Jeff Monroe
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	500		1
Arsenic	3.0	mg/kg	1.0	0.40	EPA-6010B	500		1
Barium	280	mg/kg	0.50	0.18	EPA-6010B	10000		1
Beryllium	0.36	mg/kg	0.50	0.047	EPA-6010B	75	J	1
Cadmium	ND	mg/kg	0.50	0.052	EPA-6010B	100		1
Chromium	16	mg/kg	0.50	0.050	EPA-6010B	2500		1
Cobalt	6.7	mg/kg	2.5	0.098	EPA-6010B	8000		1
Copper	9.7	mg/kg	1.0	0.050	EPA-6010B	2500		1
Lead	5.1	mg/kg	2.5	0.28	EPA-6010B	1000		1
Mercury	ND	mg/kg	0.16	0.019	EPA-7471A	20		2
Molybdenum	ND	mg/kg	2.5	0.050	EPA-6010B	3500		1
Nickel	19	mg/kg	0.50	0.15	EPA-6010B	2000		1
Selenium	1.2	mg/kg	1.0	0.98	EPA-6010B	100		1
Silver	0.13	mg/kg	0.50	0.067	EPA-6010B	500	J	1
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	700		1
Vanadium	25	mg/kg	0.50	0.11	EPA-6010B	2400		1
Zinc	27	mg/kg	2.5	0.087	EPA-6010B	5000		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	04/27/17	04/28/17 17:47	JCC	PE-OP3	0.917	B[D2706
2	EPA-7471A	04/28/17	04/28/17 12:02	MEV	CETAC2	0.992	B[D2727

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34740 Merced Ave  
Bakersfield, CA 93308

Reported: 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1711138-04	<b>Client Sample Name:</b> SW66-d5.0 Excavation Sidewalls, 4/25/2017 12:59:00PM, Jeff Monroe
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Bromobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Bromochloromethane	ND	mg/kg	0.0050	0.00092	EPA-8260B			1
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B			1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
n-Butylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
sec-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
tert-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B			1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
2-Chlorotoluene	ND	mg/kg	0.0050	0.0018	EPA-8260B			1
4-Chlorotoluene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B			1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.0017	EPA-8260B			1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.0010	EPA-8260B			1
Dibromomethane	ND	mg/kg	0.0050	0.0018	EPA-8260B			1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B			1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B			1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B			1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

Reported: 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1711138-04		Client Sample Name: SW66-d5.0 Excavation Sidewalls, 4/25/2017 12:59:00PM, Jeff Monroe						
Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
Ethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.0017	EPA-8260B			1
Isopropylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B			1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B			1
Naphthalene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
n-Propylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Styrene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
Tetrachloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Toluene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0021	EPA-8260B			1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0020	EPA-8260B			1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B			1
Trichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	2040		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
Total Xylenes	ND	mg/kg	0.010	0.0034	EPA-8260B			1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0022	EPA-8260B			1
o-Xylene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	100	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	104	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	90.0	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1711138-04	<b>Client Sample Name:</b> SW66-d5.0 Excavation Sidewalls, 4/25/2017 12:59:00PM, Jeff Monroe
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Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	04/28/17	04/28/17	16:42	ADC	MS-V2	1	B[D2813

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34740 Merced Ave  
Bakersfield, CA 93308

Reported: 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

### Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

<b>BCL Sample ID:</b> 1711138-04	<b>Client Sample Name:</b> SW66-d5.0 Excavation Sidewalls, 4/25/2017 12:59:00PM, Jeff Monroe
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Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Acenaphthene	ND	mg/kg	0.10	0.0092	EPA-8270C			1
Acenaphthylene	ND	mg/kg	0.10	0.018	EPA-8270C			1
Aldrin	ND	mg/kg	0.10	0.016	EPA-8270C	1.4		1
Aniline	ND	mg/kg	0.20	0.016	EPA-8270C			1
Anthracene	ND	mg/kg	0.10	0.050	EPA-8270C			1
Benzidine	ND	mg/kg	3.0	0.058	EPA-8270C			1
Benzo[a]anthracene	ND	mg/kg	0.10	0.041	EPA-8270C			1
Benzo[b]fluoranthene	ND	mg/kg	0.10	0.0094	EPA-8270C			1
Benzo[k]fluoranthene	ND	mg/kg	0.10	0.017	EPA-8270C			1
Benzo[a]pyrene	ND	mg/kg	0.10	0.026	EPA-8270C			1
Benzo[g,h,i]perylene	ND	mg/kg	0.10	0.011	EPA-8270C			1
Benzoic acid	ND	mg/kg	0.50	0.057	EPA-8270C			1
Benzyl alcohol	ND	mg/kg	0.10	0.0073	EPA-8270C			1
Benzyl butyl phthalate	ND	mg/kg	0.10	0.033	EPA-8270C			1
alpha-BHC	ND	mg/kg	0.10	0.035	EPA-8270C			1
delta-BHC	ND	mg/kg	0.10	0.018	EPA-8270C			1
gamma-BHC (Lindane)	ND	mg/kg	0.10	0.025	EPA-8270C	4.0		1
bis(2-Chloroethoxy)methane	ND	mg/kg	0.10	0.045	EPA-8270C			1
bis(2-Chloroethyl) ether	ND	mg/kg	0.10	0.026	EPA-8270C			1
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.10	0.015	EPA-8270C			1
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.20	0.032	EPA-8270C			1
Chrysene	ND	mg/kg	0.10	0.016	EPA-8270C			1
Dibenzo[a,h]anthracene	ND	mg/kg	0.10	0.019	EPA-8270C			1
Dibenzofuran	ND	mg/kg	0.10	0.013	EPA-8270C			1
Dieldrin	ND	mg/kg	0.10	0.031	EPA-8270C	8.0		1
Diethyl phthalate	ND	mg/kg	0.10	0.0073	EPA-8270C			1
Dimethyl phthalate	ND	mg/kg	0.10	0.0091	EPA-8270C			1
Di-n-butyl phthalate	ND	mg/kg	0.10	0.019	EPA-8270C			1
Di-n-octyl phthalate	ND	mg/kg	0.10	0.013	EPA-8270C			1
Endosulfan I	ND	mg/kg	0.20	0.062	EPA-8270C			1
Endosulfan II	ND	mg/kg	0.20	0.062	EPA-8270C			1
Endosulfan sulfate	ND	mg/kg	0.10	0.056	EPA-8270C			1
Endrin	ND	mg/kg	0.20	0.053	EPA-8270C	0.2		1

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Bakersfield, CA 93308

Reported: 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

### Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1711138-04		Client Sample Name: SW66-d5.0 Excavation Sidewalls, 4/25/2017 12:59:00PM, Jeff Monroe						
Constituent	Result	Units	PQL	MDL	Method	TTLT Limits	Lab Quals	Run #
Endrin aldehyde	ND	mg/kg	0.50	0.044	EPA-8270C			1
Fluoranthene	ND	mg/kg	0.10	0.011	EPA-8270C			1
Fluorene	ND	mg/kg	0.10	0.013	EPA-8270C			1
Heptachlor	ND	mg/kg	0.10	0.024	EPA-8270C	4.7		1
Heptachlor epoxide	ND	mg/kg	0.10	0.065	EPA-8270C			1
Hexachlorobenzene	ND	mg/kg	0.10	0.012	EPA-8270C			1
Hexachlorobutadiene	ND	mg/kg	0.10	0.020	EPA-8270C			1
Hexachlorocyclopentadiene	ND	mg/kg	0.10	0.029	EPA-8270C			1
Hexachloroethane	ND	mg/kg	0.10	0.032	EPA-8270C			1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.10	0.013	EPA-8270C			1
Isophorone	ND	mg/kg	0.10	0.0099	EPA-8270C			1
Naphthalene	ND	mg/kg	0.10	0.0085	EPA-8270C			1
Nitrobenzene	ND	mg/kg	0.10	0.0098	EPA-8270C			1
N-Nitrosodimethylamine	ND	mg/kg	0.10	0.077	EPA-8270C			1
N-Nitrosodi-N-propylamine	ND	mg/kg	0.10	0.013	EPA-8270C			1
N-Nitrosodiphenylamine	ND	mg/kg	0.10	0.018	EPA-8270C			1
Phenanthrene	ND	mg/kg	0.10	0.034	EPA-8270C			1
Pyrene	ND	mg/kg	0.10	0.027	EPA-8270C			1
Pentachlorophenol	ND	mg/kg	0.20	0.031	EPA-8270C	17		1
Phenol	ND	mg/kg	0.10	0.015	EPA-8270C			1
PCB-1016	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1221	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1232	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1242	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1248	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1254	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1260	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1262	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1268	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
Total PCB's (Summation)	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
2-Fluorophenol (Surrogate)	65.5	%	20 - 130 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	68.7	%	30 - 130 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	64.4	%	30 - 130 (LCL - UCL)		EPA-8270C			1

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

<b>BCL Sample ID:</b> 1711138-04	<b>Client Sample Name:</b> SW66-d5.0 Excavation Sidewalls, 4/25/2017 12:59:00PM, Jeff Monroe
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Constituent	Result	Units	PQL	MDL	Method	TTLCLimits	LabQuals	Run #
2-Fluorobiphenyl (Surrogate)	51.0	%	30 - 140 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	61.5	%	20 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	52.4	%	30 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/26/17	04/28/17 15:12	MK1	MS-B1	1.007	B[D2697

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Total Petroleum Hydrocarbons

<b>BCL Sample ID:</b> 1711138-04	<b>Client Sample Name:</b> SW66-d5.0 Excavation Sidewalls, 4/25/2017 12:59:00PM, Jeff Monroe							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1
TPH - Motor Oil	ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	88.6	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	04/26/17	04/27/17 13:29	AS1	GC-2	1.003	B[D2645

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Total Concentrations (TTLIC)

<b>BCL Sample ID:</b> 1711138-04	<b>Client Sample Name:</b> SW66-d5.0 Excavation Sidewalls, 4/25/2017 12:59:00PM, Jeff Monroe
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Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	500		1
Arsenic	3.7	mg/kg	1.0	0.40	EPA-6010B	500		1
Barium	230	mg/kg	0.50	0.18	EPA-6010B	10000		1
Beryllium	0.38	mg/kg	0.50	0.047	EPA-6010B	75	J	1
Cadmium	ND	mg/kg	0.50	0.052	EPA-6010B	100		1
Chromium	18	mg/kg	0.50	0.050	EPA-6010B	2500		1
Cobalt	6.4	mg/kg	2.5	0.098	EPA-6010B	8000		1
Copper	7.6	mg/kg	1.0	0.050	EPA-6010B	2500		1
Lead	5.0	mg/kg	2.5	0.28	EPA-6010B	1000		1
Mercury	ND	mg/kg	0.16	0.019	EPA-7471A	20		2
Molybdenum	0.058	mg/kg	2.5	0.050	EPA-6010B	3500	J	1
Nickel	22	mg/kg	0.50	0.15	EPA-6010B	2000		1
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	100		1
Silver	0.18	mg/kg	0.50	0.067	EPA-6010B	500	J	1
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	700		1
Vanadium	28	mg/kg	0.50	0.11	EPA-6010B	2400		1
Zinc	25	mg/kg	2.5	0.087	EPA-6010B	5000		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	04/27/17	05/01/17 13:47	JCC	PE-OP3	0.952	B[D2706
2	EPA-7471A	04/28/17	04/28/17 12:04	MEV	CETAC2	1.008	B[D2727

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1711138-05	<b>Client Sample Name:</b> SW67-d8.0 Excavation Sidewalls, 4/25/2017 1:03:00PM, Jeff Monroe
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Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Bromobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Bromochloromethane	ND	mg/kg	0.0050	0.00092	EPA-8260B			1
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B			1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
n-Butylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
sec-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
tert-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B			1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
2-Chlorotoluene	ND	mg/kg	0.0050	0.0018	EPA-8260B			1
4-Chlorotoluene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B			1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.0017	EPA-8260B			1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.0010	EPA-8260B			1
Dibromomethane	ND	mg/kg	0.0050	0.0018	EPA-8260B			1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B			1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B			1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B			1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1711138-05		Client Sample Name: SW67-d8.0 Excavation Sidewalls, 4/25/2017 1:03:00PM, Jeff Monroe						
Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
Ethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.0017	EPA-8260B			1
Isopropylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B			1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B			1
Naphthalene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
n-Propylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Styrene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
Tetrachloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Toluene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0021	EPA-8260B			1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0020	EPA-8260B			1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B			1
Trichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	2040		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
Total Xylenes	ND	mg/kg	0.010	0.0034	EPA-8260B			1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0022	EPA-8260B			1
o-Xylene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	91.7	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	118	%	81 - 117 (LCL - UCL)		EPA-8260B		S09	1
4-Bromofluorobenzene (Surrogate)	88.1	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1711138-05	<b>Client Sample Name:</b> SW67-d8.0 Excavation Sidewalls, 4/25/2017 1:03:00PM, Jeff Monroe
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Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	04/28/17	04/28/17 17:05	ADC	MS-V2	1	B[D2813

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Bakersfield, CA 93308

Reported: 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

### Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

<b>BCL Sample ID:</b> 1711138-05	<b>Client Sample Name:</b> SW67-d8.0 Excavation Sidewalls, 4/25/2017 1:03:00PM, Jeff Monroe
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Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Acenaphthene	ND	mg/kg	0.10	0.0092	EPA-8270C			1
Acenaphthylene	ND	mg/kg	0.10	0.018	EPA-8270C			1
Aldrin	ND	mg/kg	0.10	0.016	EPA-8270C	1.4		1
Aniline	ND	mg/kg	0.20	0.016	EPA-8270C			1
Anthracene	ND	mg/kg	0.10	0.050	EPA-8270C			1
Benzidine	ND	mg/kg	3.0	0.058	EPA-8270C			1
Benzo[a]anthracene	ND	mg/kg	0.10	0.041	EPA-8270C			1
Benzo[b]fluoranthene	ND	mg/kg	0.10	0.0094	EPA-8270C			1
Benzo[k]fluoranthene	ND	mg/kg	0.10	0.017	EPA-8270C			1
Benzo[a]pyrene	ND	mg/kg	0.10	0.026	EPA-8270C			1
Benzo[g,h,i]perylene	ND	mg/kg	0.10	0.011	EPA-8270C			1
Benzoic acid	ND	mg/kg	0.50	0.057	EPA-8270C			1
Benzyl alcohol	ND	mg/kg	0.10	0.0073	EPA-8270C			1
Benzyl butyl phthalate	ND	mg/kg	0.10	0.033	EPA-8270C			1
alpha-BHC	ND	mg/kg	0.10	0.035	EPA-8270C			1
delta-BHC	ND	mg/kg	0.10	0.018	EPA-8270C			1
gamma-BHC (Lindane)	ND	mg/kg	0.10	0.025	EPA-8270C	4.0		1
bis(2-Chloroethoxy)methane	ND	mg/kg	0.10	0.045	EPA-8270C			1
bis(2-Chloroethyl) ether	ND	mg/kg	0.10	0.026	EPA-8270C			1
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.10	0.015	EPA-8270C			1
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.20	0.032	EPA-8270C			1
Chrysene	ND	mg/kg	0.10	0.016	EPA-8270C			1
Dibenzo[a,h]anthracene	ND	mg/kg	0.10	0.019	EPA-8270C			1
Dibenzofuran	ND	mg/kg	0.10	0.013	EPA-8270C			1
Dieldrin	ND	mg/kg	0.10	0.031	EPA-8270C	8.0		1
Diethyl phthalate	ND	mg/kg	0.10	0.0073	EPA-8270C			1
Dimethyl phthalate	ND	mg/kg	0.10	0.0091	EPA-8270C			1
Di-n-butyl phthalate	ND	mg/kg	0.10	0.019	EPA-8270C			1
Di-n-octyl phthalate	ND	mg/kg	0.10	0.013	EPA-8270C			1
Endosulfan I	ND	mg/kg	0.20	0.062	EPA-8270C			1
Endosulfan II	ND	mg/kg	0.20	0.062	EPA-8270C			1
Endosulfan sulfate	ND	mg/kg	0.10	0.056	EPA-8270C			1
Endrin	ND	mg/kg	0.20	0.053	EPA-8270C	0.2		1

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34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

<b>BCL Sample ID:</b> 1711138-05	<b>Client Sample Name:</b> SW67-d8.0 Excavation Sidewalls, 4/25/2017 1:03:00PM, Jeff Monroe
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Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Endrin aldehyde	ND	mg/kg	0.50	0.044	EPA-8270C			1
Fluoranthene	ND	mg/kg	0.10	0.011	EPA-8270C			1
Fluorene	ND	mg/kg	0.10	0.013	EPA-8270C			1
Heptachlor	ND	mg/kg	0.10	0.024	EPA-8270C	4.7		1
Heptachlor epoxide	ND	mg/kg	0.10	0.065	EPA-8270C			1
Hexachlorobenzene	ND	mg/kg	0.10	0.012	EPA-8270C			1
Hexachlorobutadiene	ND	mg/kg	0.10	0.020	EPA-8270C			1
Hexachlorocyclopentadiene	ND	mg/kg	0.10	0.029	EPA-8270C			1
Hexachloroethane	ND	mg/kg	0.10	0.032	EPA-8270C			1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.10	0.013	EPA-8270C			1
Isophorone	ND	mg/kg	0.10	0.0099	EPA-8270C			1
Naphthalene	ND	mg/kg	0.10	0.0085	EPA-8270C			1
Nitrobenzene	ND	mg/kg	0.10	0.0098	EPA-8270C			1
N-Nitrosodimethylamine	ND	mg/kg	0.10	0.077	EPA-8270C			1
N-Nitrosodi-N-propylamine	ND	mg/kg	0.10	0.013	EPA-8270C			1
N-Nitrosodiphenylamine	ND	mg/kg	0.10	0.018	EPA-8270C			1
Phenanthrene	ND	mg/kg	0.10	0.034	EPA-8270C			1
Pyrene	ND	mg/kg	0.10	0.027	EPA-8270C			1
Pentachlorophenol	ND	mg/kg	0.20	0.031	EPA-8270C	17		1
Phenol	ND	mg/kg	0.10	0.015	EPA-8270C			1
PCB-1016	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1221	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1232	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1242	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1248	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1254	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1260	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1262	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
PCB-1268	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
Total PCB's (Summation)	ND	mg/kg	2.0	1.0	EPA-8270C	50		1
2-Fluorophenol (Surrogate)	50.2	%	20 - 130 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	57.5	%	30 - 130 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	50.6	%	30 - 130 (LCL - UCL)		EPA-8270C			1

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

<b>BCL Sample ID:</b> 1711138-05	<b>Client Sample Name:</b> SW67-d8.0 Excavation Sidewalls, 4/25/2017 1:03:00PM, Jeff Monroe
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	TTLCLimits	Lab Quals	Run #
2-Fluorobiphenyl (Surrogate)	42.5	%	30 - 140 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	41.6	%	20 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	48.8	%	30 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/26/17	04/28/17 15:38	MK1	MS-B1	0.980	B[D2697

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Total Petroleum Hydrocarbons

BCL Sample ID: 1711138-05		Client Sample Name: SW67-d8.0 Excavation Sidewalls, 4/25/2017 1:03:00PM, Jeff Monroe						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	20	5.0	EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10	1.2	EPA-8015B/FFP	ND		1
TPH - Motor Oil	ND	mg/kg	20	6.5	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	88.8	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	04/26/17	04/27/17 13:53	AS1	GC-2	0.987	B[D2645

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Total Concentrations (TTLIC)

<b>BCL Sample ID:</b> 1711138-05	<b>Client Sample Name:</b> SW67-d8.0 Excavation Sidewalls, 4/25/2017 1:03:00PM, Jeff Monroe
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	500		1
Arsenic	4.0	mg/kg	1.0	0.40	EPA-6010B	500		1
Barium	140	mg/kg	0.50	0.18	EPA-6010B	10000		1
Beryllium	0.26	mg/kg	0.50	0.047	EPA-6010B	75	J	1
Cadmium	ND	mg/kg	0.50	0.052	EPA-6010B	100		1
Chromium	30	mg/kg	0.50	0.050	EPA-6010B	2500		1
Cobalt	8.5	mg/kg	2.5	0.098	EPA-6010B	8000		1
Copper	20	mg/kg	1.0	0.050	EPA-6010B	2500		1
Lead	6.5	mg/kg	2.5	0.28	EPA-6010B	1000		1
Mercury	0.064	mg/kg	0.16	0.019	EPA-7471A	20	J	2
Molybdenum	ND	mg/kg	2.5	0.050	EPA-6010B	3500		1
Nickel	34	mg/kg	0.50	0.15	EPA-6010B	2000		1
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	100		1
Silver	0.23	mg/kg	0.50	0.067	EPA-6010B	500	J	1
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	700		1
Vanadium	26	mg/kg	0.50	0.11	EPA-6010B	2400		1
Zinc	41	mg/kg	2.5	0.087	EPA-6010B	5000		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	04/27/17	05/01/17 13:49	JCC	PE-OP3	0.990	B[D2706
2	EPA-7471A	04/28/17	04/28/17 12:06	MEV	CETAC2	1.008	B[D2727

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1711138-06	<b>Client Sample Name:</b> CF-8 - Clean Fill (Import), 4/25/2017 1:10:00PM, Jeff Monroe
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Bromobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Bromochloromethane	ND	mg/kg	0.0050	0.00092	EPA-8260B			1
Bromodichloromethane	ND	mg/kg	0.0050	0.00084	EPA-8260B			1
Bromoform	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Bromomethane	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
n-Butylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
sec-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
tert-Butylbenzene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
Carbon tetrachloride	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
Chlorobenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Chloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
Chloroform	ND	mg/kg	0.0050	0.00063	EPA-8260B			1
Chloromethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
2-Chlorotoluene	ND	mg/kg	0.0050	0.0018	EPA-8260B			1
4-Chlorotoluene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
Dibromochloromethane	ND	mg/kg	0.0050	0.00099	EPA-8260B			1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	0.0017	EPA-8260B			1
1,2-Dibromoethane	ND	mg/kg	0.0050	0.0010	EPA-8260B			1
Dibromomethane	ND	mg/kg	0.0050	0.0018	EPA-8260B			1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	0.00081	EPA-8260B			1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Dichlorodifluoromethane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,1-Dichloroethane	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,2-Dichloroethane	ND	mg/kg	0.0050	0.00085	EPA-8260B			1
1,1-Dichloroethene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,2-Dichloropropane	ND	mg/kg	0.0050	0.00081	EPA-8260B			1
1,3-Dichloropropane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
2,2-Dichloropropane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,1-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1711138-06		Client Sample Name: CF-8 - Clean Fill (Import), 4/25/2017 1:10:00PM, Jeff Monroe						
Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
Ethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Hexachlorobutadiene	ND	mg/kg	0.0050	0.0017	EPA-8260B			1
Isopropylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
p-Isopropyltoluene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Methylene chloride	ND	mg/kg	0.010	0.0024	EPA-8260B			1
Methyl t-butyl ether	ND	mg/kg	0.0050	0.00050	EPA-8260B			1
Naphthalene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
n-Propylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Styrene	ND	mg/kg	0.0050	0.0014	EPA-8260B			1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
Tetrachloroethene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
Toluene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	0.0021	EPA-8260B			1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	0.0020	EPA-8260B			1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	0.00077	EPA-8260B			1
Trichloroethene	ND	mg/kg	0.0050	0.0011	EPA-8260B	2040		1
Trichlorofluoromethane	ND	mg/kg	0.0050	0.0011	EPA-8260B			1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	0.0013	EPA-8260B			1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	0.0015	EPA-8260B			1
Vinyl chloride	ND	mg/kg	0.0050	0.0016	EPA-8260B			1
Total Xylenes	ND	mg/kg	0.010	0.0034	EPA-8260B			1
p- & m-Xylenes	ND	mg/kg	0.0050	0.0022	EPA-8260B			1
o-Xylene	ND	mg/kg	0.0050	0.0012	EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	94.0	%	70 - 121 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	96.9	%	81 - 117 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	85.3	%	74 - 121 (LCL - UCL)		EPA-8260B			1

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

**BCL Sample ID:** 1711138-06      **Client Sample Name:** CF-8 - Clean Fill (Import), 4/25/2017 1:10:00PM, Jeff Monroe

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8260B	04/28/17	04/28/17	17:27	ADC	MS-V2	1	B[D2813

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

**BCL Sample ID:** 1711138-06      **Client Sample Name:** CF-8 - Clean Fill (Import), 4/25/2017 1:10:00PM, Jeff Monroe

Constituent	Result	Units	PQL	MDL	Method	TTLC Limits	Lab Quals	Run #
Acenaphthene	ND	mg/kg	0.59	0.055	EPA-8270C			1
Acenaphthylene	ND	mg/kg	0.59	0.11	EPA-8270C			1
Aldrin	ND	mg/kg	0.59	0.095	EPA-8270C	1.4		1
Aniline	ND	mg/kg	1.2	0.095	EPA-8270C			1
Anthracene	ND	mg/kg	0.59	0.30	EPA-8270C			1
Benzidine	ND	mg/kg	18	0.34	EPA-8270C			1
Benzo[a]anthracene	ND	mg/kg	0.59	0.24	EPA-8270C			1
Benzo[b]fluoranthene	ND	mg/kg	0.59	0.056	EPA-8270C			1
Benzo[k]fluoranthene	ND	mg/kg	0.59	0.10	EPA-8270C			1
Benzo[a]pyrene	ND	mg/kg	0.59	0.15	EPA-8270C			1
Benzo[g,h,i]perylene	ND	mg/kg	0.59	0.065	EPA-8270C			1
Benzoic acid	ND	mg/kg	3.0	0.34	EPA-8270C			1
Benzyl alcohol	ND	mg/kg	0.59	0.043	EPA-8270C			1
Benzyl butyl phthalate	ND	mg/kg	0.59	0.20	EPA-8270C			1
alpha-BHC	ND	mg/kg	0.59	0.21	EPA-8270C			1
delta-BHC	ND	mg/kg	0.59	0.11	EPA-8270C			1
gamma-BHC (Lindane)	ND	mg/kg	0.59	0.15	EPA-8270C	4.0		1
bis(2-Chloroethoxy)methane	ND	mg/kg	0.59	0.27	EPA-8270C			1
bis(2-Chloroethyl) ether	ND	mg/kg	0.59	0.15	EPA-8270C			1
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.59	0.089	EPA-8270C			1
bis(2-Ethylhexyl)phthalate	ND	mg/kg	1.2	0.19	EPA-8270C			1
Chrysene	ND	mg/kg	0.59	0.095	EPA-8270C			1
Dibenzo[a,h]anthracene	ND	mg/kg	0.59	0.11	EPA-8270C			1
Dibenzofuran	ND	mg/kg	0.59	0.077	EPA-8270C			1
Dieldrin	ND	mg/kg	0.59	0.18	EPA-8270C	8.0		1
Diethyl phthalate	ND	mg/kg	0.59	0.043	EPA-8270C			1
Dimethyl phthalate	ND	mg/kg	0.59	0.054	EPA-8270C			1
Di-n-butyl phthalate	ND	mg/kg	0.59	0.11	EPA-8270C			1
Di-n-octyl phthalate	ND	mg/kg	0.59	0.077	EPA-8270C			1
Endosulfan I	ND	mg/kg	1.2	0.37	EPA-8270C			1
Endosulfan II	ND	mg/kg	1.2	0.37	EPA-8270C			1
Endosulfan sulfate	ND	mg/kg	0.59	0.33	EPA-8270C			1
Endrin	ND	mg/kg	1.2	0.31	EPA-8270C	0.2		1

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	1711138-06							
Client Sample Name:	CF-8 - Clean Fill (Import), 4/25/2017 1:10:00PM, Jeff Monroe							
Constituent	Result	Units	PQL	MDL	Method	TTLT Limits	Lab Quals	Run #
Endrin aldehyde	ND	mg/kg	3.0	0.26	EPA-8270C			1
Fluoranthene	ND	mg/kg	0.59	0.065	EPA-8270C			1
Fluorene	ND	mg/kg	0.59	0.077	EPA-8270C			1
Heptachlor	ND	mg/kg	0.59	0.14	EPA-8270C	4.7		1
Heptachlor epoxide	ND	mg/kg	0.59	0.39	EPA-8270C			1
Hexachlorobenzene	ND	mg/kg	0.59	0.071	EPA-8270C			1
Hexachlorobutadiene	ND	mg/kg	0.59	0.12	EPA-8270C			1
Hexachlorocyclopentadiene	ND	mg/kg	0.59	0.17	EPA-8270C			1
Hexachloroethane	ND	mg/kg	0.59	0.19	EPA-8270C			1
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.59	0.077	EPA-8270C			1
Isophorone	ND	mg/kg	0.59	0.059	EPA-8270C			1
Naphthalene	ND	mg/kg	0.59	0.050	EPA-8270C			1
Nitrobenzene	ND	mg/kg	0.59	0.058	EPA-8270C			1
N-Nitrosodimethylamine	ND	mg/kg	0.59	0.46	EPA-8270C			1
N-Nitrosodi-N-propylamine	ND	mg/kg	0.59	0.077	EPA-8270C			1
N-Nitrosodiphenylamine	ND	mg/kg	0.59	0.11	EPA-8270C			1
Phenanthrene	ND	mg/kg	0.59	0.20	EPA-8270C			1
Pyrene	ND	mg/kg	0.59	0.16	EPA-8270C			1
Pentachlorophenol	ND	mg/kg	1.2	0.18	EPA-8270C	17		1
Phenol	ND	mg/kg	0.59	0.089	EPA-8270C			1
PCB-1016	ND	mg/kg	12	5.9	EPA-8270C	50		1
PCB-1221	ND	mg/kg	12	5.9	EPA-8270C	50		1
PCB-1232	ND	mg/kg	12	5.9	EPA-8270C	50		1
PCB-1242	ND	mg/kg	12	5.9	EPA-8270C	50		1
PCB-1248	ND	mg/kg	12	5.9	EPA-8270C	50		1
PCB-1254	ND	mg/kg	12	5.9	EPA-8270C	50		1
PCB-1260	ND	mg/kg	12	5.9	EPA-8270C	50		1
PCB-1262	ND	mg/kg	12	5.9	EPA-8270C	50		1
PCB-1268	ND	mg/kg	12	5.9	EPA-8270C	50		1
Total PCB's (Summation)	ND	mg/kg	12	5.9	EPA-8270C	50		1
2-Fluorophenol (Surrogate)	67.0	%	20 - 130 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	68.5	%	30 - 130 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	67.7	%	30 - 130 (LCL - UCL)		EPA-8270C			1

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Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

<b>BCL Sample ID:</b> 1711138-06	<b>Client Sample Name:</b> CF-8 - Clean Fill (Import), 4/25/2017 1:10:00PM, Jeff Monroe
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Constituent	Result	Units	PQL	MDL	Method	TTLCLimits	Lab Quals	Run #
2-Fluorobiphenyl (Surrogate)	86.9	%	30 - 140 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	62.3	%	20 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	78.1	%	30 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/26/17	04/28/17 16:04	MK1	MS-B1	5.939	B[D2697

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Total Petroleum Hydrocarbons

<b>BCL Sample ID:</b> 1711138-06	<b>Client Sample Name:</b> CF-8 - Clean Fill (Import), 4/25/2017 1:10:00PM, Jeff Monroe							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Gasoline	ND	mg/kg	130	32	EPA-8015B/FFP	ND		1
TPH - Diesel (FFP)	ND	mg/kg	64	7.7	EPA-8015B/FFP	ND		1
TPH - Motor Oil	ND	mg/kg	130	41	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	91.5	%	20 - 145 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	04/26/17	04/27/17 14:17	AS1	GC-2	6.383	B[D2645

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34740 Merced Ave  
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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Total Concentrations (TTLIC)

BCL Sample ID: 1711138-06		Client Sample Name: CF-8 - Clean Fill (Import), 4/25/2017 1:10:00PM, Jeff Monroe						
Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	Run #
Antimony	ND	mg/kg	5.0	0.33	EPA-6010B	500		1
Arsenic	3.6	mg/kg	1.0	0.40	EPA-6010B	500		1
Barium	170	mg/kg	0.50	0.18	EPA-6010B	10000		1
Beryllium	0.28	mg/kg	0.50	0.047	EPA-6010B	75	J	1
Cadmium	ND	mg/kg	0.50	0.052	EPA-6010B	100		1
Chromium	32	mg/kg	0.50	0.050	EPA-6010B	2500		1
Cobalt	9.4	mg/kg	2.5	0.098	EPA-6010B	8000		1
Copper	22	mg/kg	1.0	0.050	EPA-6010B	2500		1
Lead	7.1	mg/kg	2.5	0.28	EPA-6010B	1000		1
Mercury	0.59	mg/kg	0.16	0.019	EPA-7471A	20		2
Molybdenum	ND	mg/kg	2.5	0.050	EPA-6010B	3500		1
Nickel	33	mg/kg	0.50	0.15	EPA-6010B	2000		1
Selenium	ND	mg/kg	1.0	0.98	EPA-6010B	100		1
Silver	0.22	mg/kg	0.50	0.067	EPA-6010B	500	J	1
Thallium	ND	mg/kg	5.0	0.64	EPA-6010B	700		1
Vanadium	28	mg/kg	0.50	0.11	EPA-6010B	2400		1
Zinc	42	mg/kg	2.5	0.087	EPA-6010B	5000		1

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-6010B	04/27/17	04/28/17 17:38	JCC	PE-OP3	1	B[D2706
2	EPA-7471A	04/28/17	04/28/17 12:12	MEV	CETAC2	1.025	B[D2727

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

## Volatile Organic Analysis (EPA Method 8260B)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B[D2813]</b>						
Benzene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0013	
Bromobenzene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0013	
Bromochloromethane	B[D2813-BLK1	ND	mg/kg	0.0050	0.00092	
Bromodichloromethane	B[D2813-BLK1	ND	mg/kg	0.0050	0.00084	
Bromoform	B[D2813-BLK1	ND	mg/kg	0.0050	0.0015	
Bromomethane	B[D2813-BLK1	ND	mg/kg	0.0050	0.0016	
n-Butylbenzene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0015	
sec-Butylbenzene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0012	
tert-Butylbenzene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0012	
Carbon tetrachloride	B[D2813-BLK1	ND	mg/kg	0.0050	0.0011	
Chlorobenzene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0013	
Chloroethane	B[D2813-BLK1	ND	mg/kg	0.0050	0.0014	
Chloroform	B[D2813-BLK1	ND	mg/kg	0.0050	0.00063	
Chloromethane	B[D2813-BLK1	ND	mg/kg	0.0050	0.0014	
2-Chlorotoluene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0018	
4-Chlorotoluene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0014	
Dibromochloromethane	B[D2813-BLK1	ND	mg/kg	0.0050	0.00099	
1,2-Dibromo-3-chloropropane	B[D2813-BLK1	ND	mg/kg	0.0050	0.0017	
1,2-Dibromoethane	B[D2813-BLK1	ND	mg/kg	0.0050	0.0010	
Dibromomethane	B[D2813-BLK1	ND	mg/kg	0.0050	0.0018	
1,2-Dichlorobenzene	B[D2813-BLK1	ND	mg/kg	0.0050	0.00081	
1,3-Dichlorobenzene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0014	
1,4-Dichlorobenzene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0015	
Dichlorodifluoromethane	B[D2813-BLK1	ND	mg/kg	0.0050	0.0013	
1,1-Dichloroethane	B[D2813-BLK1	ND	mg/kg	0.0050	0.0014	
1,2-Dichloroethane	B[D2813-BLK1	ND	mg/kg	0.0050	0.00085	
1,1-Dichloroethene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0012	
cis-1,2-Dichloroethene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0013	
trans-1,2-Dichloroethene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0014	
1,2-Dichloropropane	B[D2813-BLK1	ND	mg/kg	0.0050	0.00081	
1,3-Dichloropropane	B[D2813-BLK1	ND	mg/kg	0.0050	0.0011	
2,2-Dichloropropane	B[D2813-BLK1	ND	mg/kg	0.0050	0.0013	
1,1-Dichloropropene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0012	
cis-1,3-Dichloropropene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0011	

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

## Volatile Organic Analysis (EPA Method 8260B)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B[D2813]</b>						
trans-1,3-Dichloropropene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0012	
Ethylbenzene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0015	
Hexachlorobutadiene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0017	
Isopropylbenzene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0013	
p-Isopropyltoluene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0013	
Methylene chloride	B[D2813-BLK1	ND	mg/kg	0.010	0.0024	
Methyl t-butyl ether	B[D2813-BLK1	ND	mg/kg	0.0050	0.00050	
Naphthalene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0014	
n-Propylbenzene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0013	
Styrene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0014	
1,1,1,2-Tetrachloroethane	B[D2813-BLK1	ND	mg/kg	0.0050	0.0011	
1,1,1,2-Tetrachloroethane	B[D2813-BLK1	ND	mg/kg	0.0050	0.0011	
Tetrachloroethane	B[D2813-BLK1	ND	mg/kg	0.0050	0.0013	
Toluene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0012	
1,2,3-Trichlorobenzene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0021	
1,2,4-Trichlorobenzene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0020	
1,1,1-Trichloroethane	B[D2813-BLK1	ND	mg/kg	0.0050	0.0011	
1,1,2-Trichloroethane	B[D2813-BLK1	ND	mg/kg	0.0050	0.00077	
Trichloroethene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0011	
Trichlorofluoromethane	B[D2813-BLK1	ND	mg/kg	0.0050	0.0011	
1,2,3-Trichloropropane	B[D2813-BLK1	ND	mg/kg	0.0050	0.0016	
1,1,2-Trichloro-1,2,2-trifluoroethane	B[D2813-BLK1	ND	mg/kg	0.0050	0.0013	
1,2,4-Trimethylbenzene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0013	
1,3,5-Trimethylbenzene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0015	
Vinyl chloride	B[D2813-BLK1	ND	mg/kg	0.0050	0.0016	
Total Xylenes	B[D2813-BLK1	ND	mg/kg	0.010	0.0034	
p- & m-Xylenes	B[D2813-BLK1	ND	mg/kg	0.0050	0.0022	
o-Xylene	B[D2813-BLK1	ND	mg/kg	0.0050	0.0012	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>B[D2813-BLK1</b>	<b>96.7</b>	<b>%</b>	<b>70 - 121 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>B[D2813-BLK1</b>	<b>106</b>	<b>%</b>	<b>81 - 117 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>B[D2813-BLK1</b>	<b>84.2</b>	<b>%</b>	<b>74 - 121 (LCL - UCL)</b>		

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

## Volatile Organic Analysis (EPA Method 8260B)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B[D2813</b>										
Benzene	B[D2813-BS1	LCS	0.11637	0.12500	mg/kg	93.1		70	130	
Bromodichloromethane	B[D2813-BS1	LCS	0.12183	0.12500	mg/kg	97.5		70	130	
Chlorobenzene	B[D2813-BS1	LCS	0.11377	0.12500	mg/kg	91.0		70	130	
Chloroethane	B[D2813-BS1	LCS	0.098420	0.12500	mg/kg	78.7		70	130	
1,4-Dichlorobenzene	B[D2813-BS1	LCS	0.10207	0.12500	mg/kg	81.7		70	130	
1,1-Dichloroethane	B[D2813-BS1	LCS	0.11373	0.12500	mg/kg	91.0		70	130	
1,1-Dichloroethene	B[D2813-BS1	LCS	0.10473	0.12500	mg/kg	83.8		70	130	
Toluene	B[D2813-BS1	LCS	0.12142	0.12500	mg/kg	97.1		70	130	
Trichloroethene	B[D2813-BS1	LCS	0.10999	0.12500	mg/kg	88.0		70	130	
1,2-Dichloroethane-d4 (Surrogate)	B[D2813-BS1	LCS	0.048200	0.050000	mg/kg	96.4		70	121	
Toluene-d8 (Surrogate)	B[D2813-BS1	LCS	0.052240	0.050000	mg/kg	104		81	117	
4-Bromofluorobenzene (Surrogate)	B[D2813-BS1	LCS	0.045030	0.050000	mg/kg	90.1		74	121	

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Bakersfield, CA 93308

Reported: 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

### Volatile Organic Analysis (EPA Method 8260B)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery		Lab	
								RPD	Percent Recovery		
<b>QC Batch ID: B[D2813]</b>		Used client sample: N									
Benzene	MS	1705207-73	ND	0.14121	0.12500	mg/kg		113		70 - 130	
	MSD	1705207-73	ND	0.11364	0.12500	mg/kg	21.6	90.9	20	70 - 130	Q02
Bromodichloromethane	MS	1705207-73	ND	0.14184	0.12500	mg/kg		113		70 - 130	
	MSD	1705207-73	ND	0.11961	0.12500	mg/kg	17.0	95.7	20	70 - 130	
Chlorobenzene	MS	1705207-73	ND	0.12764	0.12500	mg/kg		102		70 - 130	
	MSD	1705207-73	ND	0.11423	0.12500	mg/kg	11.1	91.4	20	70 - 130	
Chloroethane	MS	1705207-73	ND	0.11798	0.12500	mg/kg		94.4		70 - 130	
	MSD	1705207-73	ND	0.096890	0.12500	mg/kg	19.6	77.5	20	70 - 130	
1,4-Dichlorobenzene	MS	1705207-73	ND	0.11520	0.12500	mg/kg		92.2		70 - 130	
	MSD	1705207-73	ND	0.11153	0.12500	mg/kg	3.2	89.2	20	70 - 130	
1,1-Dichloroethane	MS	1705207-73	ND	0.13903	0.12500	mg/kg		111		70 - 130	
	MSD	1705207-73	ND	0.11050	0.12500	mg/kg	22.9	88.4	20	70 - 130	Q02
1,1-Dichloroethene	MS	1705207-73	ND	0.11665	0.12500	mg/kg		93.3		70 - 130	
	MSD	1705207-73	ND	0.10136	0.12500	mg/kg	14.0	81.1	20	70 - 130	
Toluene	MS	1705207-73	ND	0.14163	0.12500	mg/kg		113		70 - 130	
	MSD	1705207-73	ND	0.12247	0.12500	mg/kg	14.5	98.0	20	70 - 130	
Trichloroethene	MS	1705207-73	ND	0.13102	0.12500	mg/kg		105		70 - 130	
	MSD	1705207-73	ND	0.10920	0.12500	mg/kg	18.2	87.4	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1705207-73	ND	0.053090	0.050000	mg/kg		106		70 - 121	
	MSD	1705207-73	ND	0.047350	0.050000	mg/kg	11.4	94.7		70 - 121	
Toluene-d8 (Surrogate)	MS	1705207-73	ND	0.054140	0.050000	mg/kg		108		81 - 117	
	MSD	1705207-73	ND	0.051840	0.050000	mg/kg	4.3	104		81 - 117	
4-Bromofluorobenzene (Surrogate)	MS	1705207-73	ND	0.048460	0.050000	mg/kg		96.9		74 - 121	
	MSD	1705207-73	ND	0.049150	0.050000	mg/kg	1.4	98.3		74 - 121	

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**Reported:** 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B[D2697]</b>						
Acenaphthene	B[D2697-BLK1	ND	mg/kg	0.10	0.0092	
Acenaphthylene	B[D2697-BLK1	ND	mg/kg	0.10	0.018	
Aldrin	B[D2697-BLK1	ND	mg/kg	0.10	0.016	
Aniline	B[D2697-BLK1	ND	mg/kg	0.20	0.016	
Anthracene	B[D2697-BLK1	ND	mg/kg	0.10	0.050	
Benzidine	B[D2697-BLK1	ND	mg/kg	3.0	0.058	
Benzo[a]anthracene	B[D2697-BLK1	ND	mg/kg	0.10	0.041	
Benzo[b]fluoranthene	B[D2697-BLK1	ND	mg/kg	0.10	0.0094	
Benzo[k]fluoranthene	B[D2697-BLK1	ND	mg/kg	0.10	0.017	
Benzo[a]pyrene	B[D2697-BLK1	ND	mg/kg	0.10	0.026	
Benzo[g,h,i]perylene	B[D2697-BLK1	ND	mg/kg	0.10	0.011	
Benzoic acid	B[D2697-BLK1	ND	mg/kg	0.50	0.057	
Benzyl alcohol	B[D2697-BLK1	ND	mg/kg	0.10	0.0073	
Benzyl butyl phthalate	B[D2697-BLK1	ND	mg/kg	0.10	0.033	
alpha-BHC	B[D2697-BLK1	ND	mg/kg	0.10	0.035	
delta-BHC	B[D2697-BLK1	ND	mg/kg	0.10	0.018	
gamma-BHC (Lindane)	B[D2697-BLK1	ND	mg/kg	0.10	0.025	
bis(2-Chloroethoxy)methane	B[D2697-BLK1	ND	mg/kg	0.10	0.045	
bis(2-Chloroethyl) ether	B[D2697-BLK1	ND	mg/kg	0.10	0.026	
bis(2-Chloroisopropyl)ether	B[D2697-BLK1	ND	mg/kg	0.10	0.015	
bis(2-Ethylhexyl)phthalate	B[D2697-BLK1	ND	mg/kg	0.20	0.032	
Chrysene	B[D2697-BLK1	ND	mg/kg	0.10	0.016	
Dibenzo[a,h]anthracene	B[D2697-BLK1	ND	mg/kg	0.10	0.019	
Dibenzofuran	B[D2697-BLK1	ND	mg/kg	0.10	0.013	
Dieldrin	B[D2697-BLK1	ND	mg/kg	0.10	0.031	
Diethyl phthalate	B[D2697-BLK1	ND	mg/kg	0.10	0.0073	
Dimethyl phthalate	B[D2697-BLK1	ND	mg/kg	0.10	0.0091	
Di-n-butyl phthalate	B[D2697-BLK1	ND	mg/kg	0.10	0.019	
Di-n-octyl phthalate	B[D2697-BLK1	ND	mg/kg	0.10	0.013	
Endosulfan I	B[D2697-BLK1	ND	mg/kg	0.20	0.062	
Endosulfan II	B[D2697-BLK1	ND	mg/kg	0.20	0.062	
Endosulfan sulfate	B[D2697-BLK1	ND	mg/kg	0.10	0.056	
Endrin	B[D2697-BLK1	ND	mg/kg	0.20	0.053	
Endrin aldehyde	B[D2697-BLK1	ND	mg/kg	0.50	0.044	

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Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B[D2697]</b>						
Fluoranthene	B[D2697-BLK1	ND	mg/kg	0.10	0.011	
Fluorene	B[D2697-BLK1	ND	mg/kg	0.10	0.013	
Heptachlor	B[D2697-BLK1	ND	mg/kg	0.10	0.024	
Heptachlor epoxide	B[D2697-BLK1	ND	mg/kg	0.10	0.065	
Hexachlorobenzene	B[D2697-BLK1	ND	mg/kg	0.10	0.012	
Hexachlorobutadiene	B[D2697-BLK1	ND	mg/kg	0.10	0.020	
Hexachlorocyclopentadiene	B[D2697-BLK1	ND	mg/kg	0.10	0.029	
Hexachloroethane	B[D2697-BLK1	ND	mg/kg	0.10	0.032	
Indeno[1,2,3-cd]pyrene	B[D2697-BLK1	ND	mg/kg	0.10	0.013	
Isophorone	B[D2697-BLK1	ND	mg/kg	0.10	0.0099	
Naphthalene	B[D2697-BLK1	ND	mg/kg	0.10	0.0085	
Nitrobenzene	B[D2697-BLK1	ND	mg/kg	0.10	0.0098	
N-Nitrosodimethylamine	B[D2697-BLK1	ND	mg/kg	0.10	0.077	
N-Nitrosodi-N-propylamine	B[D2697-BLK1	ND	mg/kg	0.10	0.013	
N-Nitrosodiphenylamine	B[D2697-BLK1	ND	mg/kg	0.10	0.018	
Phenanthrene	B[D2697-BLK1	ND	mg/kg	0.10	0.034	
Pyrene	B[D2697-BLK1	ND	mg/kg	0.10	0.027	
Pentachlorophenol	B[D2697-BLK1	ND	mg/kg	0.20	0.031	
Phenol	B[D2697-BLK1	ND	mg/kg	0.10	0.015	
PCB-1268	B[D2697-BLK1	ND	mg/kg	2.0	1.0	
PCB-1016	B[D2697-BLK1	ND	mg/kg	2.0	1.0	
PCB-1221	B[D2697-BLK1	ND	mg/kg	2.0	1.0	
PCB-1232	B[D2697-BLK1	ND	mg/kg	2.0	1.0	
PCB-1242	B[D2697-BLK1	ND	mg/kg	2.0	1.0	
PCB-1248	B[D2697-BLK1	ND	mg/kg	2.0	1.0	
PCB-1254	B[D2697-BLK1	ND	mg/kg	2.0	1.0	
PCB-1262	B[D2697-BLK1	ND	mg/kg	2.0	1.0	
PCB-1260	B[D2697-BLK1	ND	mg/kg	2.0	1.0	
Total PCB's (Summation)	B[D2697-BLK1	ND	mg/kg	2.0	1.0	
<b>2-Fluorophenol (Surrogate)</b>	<b>B[D2697-BLK1</b>	<b>54.6</b>	<b>%</b>	<b>20 - 130 (LCL - UCL)</b>		
<b>Phenol-d5 (Surrogate)</b>	<b>B[D2697-BLK1</b>	<b>61.9</b>	<b>%</b>	<b>30 - 130 (LCL - UCL)</b>		
<b>Nitrobenzene-d5 (Surrogate)</b>	<b>B[D2697-BLK1</b>	<b>60.7</b>	<b>%</b>	<b>30 - 130 (LCL - UCL)</b>		
<b>2-Fluorobiphenyl (Surrogate)</b>	<b>B[D2697-BLK1</b>	<b>82.5</b>	<b>%</b>	<b>30 - 140 (LCL - UCL)</b>		
<b>2,4,6-Tribromophenol (Surrogate)</b>	<b>B[D2697-BLK1</b>	<b>50.6</b>	<b>%</b>	<b>20 - 150 (LCL - UCL)</b>		

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B[D2697]</b>						
p-Terphenyl-d14 (Surrogate)	B[D2697-BLK1	78.8	%	30 - 150 (LCL - UCL)		

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34740 Merced Ave  
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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

## Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B[D2697</b>										
Acenaphthene	B[D2697-BS1	LCS	1.2012	1.6502	mg/kg	72.8		50	130	
Hexachlorobenzene	B[D2697-BS1	LCS	1.3122	1.3201	mg/kg	99.4		40	130	
Hexachlorobutadiene	B[D2697-BS1	LCS	1.0812	1.6502	mg/kg	65.5		50	130	
Hexachloroethane	B[D2697-BS1	LCS	1.2669	1.6502	mg/kg	76.8		50	130	
Nitrobenzene	B[D2697-BS1	LCS	1.3342	1.6502	mg/kg	80.8		50	130	
N-Nitrosodi-N-propylamine	B[D2697-BS1	LCS	1.3969	1.6502	mg/kg	84.7		40	120	
Pyrene	B[D2697-BS1	LCS	1.4428	1.6502	mg/kg	87.4		40	150	
Pentachlorophenol	B[D2697-BS1	LCS	0.60838	1.3201	mg/kg	46.1		20	130	
Phenol	B[D2697-BS1	LCS	1.2666	1.6502	mg/kg	76.8		40	120	
2-Fluorophenol (Surrogate)	B[D2697-BS1	LCS	1.0654	1.3201	mg/kg	80.7		20	130	
Phenol-d5 (Surrogate)	B[D2697-BS1	LCS	1.1294	1.3201	mg/kg	85.6		30	130	
Nitrobenzene-d5 (Surrogate)	B[D2697-BS1	LCS	1.0356	1.3201	mg/kg	78.4		30	130	
2-Fluorobiphenyl (Surrogate)	B[D2697-BS1	LCS	1.3164	1.3201	mg/kg	99.7		30	140	
2,4,6-Tribromophenol (Surrogate)	B[D2697-BS1	LCS	0.90982	1.3201	mg/kg	68.9		20	150	
p-Terphenyl-d14 (Surrogate)	B[D2697-BS1	LCS	0.58800	0.66007	mg/kg	89.1		30	150	

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Reported: 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

### Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: B[D2697]</b>		Used client sample: N								
Acenaphthene	MS	1705207-66	ND	1.1296	1.6667	mg/kg		67.8	30 - 140	
	MSD	1705207-66	ND	1.2191	1.6892	mg/kg	7.6	72.2	30	30 - 140
Hexachlorobenzene	MS	1705207-66	ND	1.1784	1.3333	mg/kg		88.4	50 - 130	
	MSD	1705207-66	ND	1.3129	1.3514	mg/kg	10.8	97.2	30	50 - 130
Hexachlorobutadiene	MS	1705207-66	ND	1.0408	1.6667	mg/kg		62.4	50 - 130	
	MSD	1705207-66	ND	1.2136	1.6892	mg/kg	15.3	71.8	30	50 - 130
Hexachloroethane	MS	1705207-66	ND	1.1666	1.6667	mg/kg		70.0	50 - 130	
	MSD	1705207-66	ND	1.3521	1.6892	mg/kg	14.7	80.0	30	50 - 130
Nitrobenzene	MS	1705207-66	ND	1.2731	1.6667	mg/kg		76.4	30 - 120	
	MSD	1705207-66	ND	1.4338	1.6892	mg/kg	11.9	84.9	30	30 - 120
N-Nitrosodi-N-propylamine	MS	1705207-66	ND	1.2570	1.6667	mg/kg		75.4	20 - 130	
	MSD	1705207-66	ND	1.4351	1.6892	mg/kg	13.2	85.0	30	20 - 130
Pyrene	MS	1705207-66	ND	1.3273	1.6667	mg/kg		79.6	40 - 140	
	MSD	1705207-66	ND	1.3748	1.6892	mg/kg	3.5	81.4	30	40 - 140
Pentachlorophenol	MS	1705207-66	ND	0.47916	1.3333	mg/kg		35.9	30 - 130	
	MSD	1705207-66	ND	0.47578	1.3514	mg/kg	0.7	35.2	30	30 - 130
Phenol	MS	1705207-66	ND	1.1319	1.6667	mg/kg		67.9	40 - 150	
	MSD	1705207-66	ND	1.2957	1.6892	mg/kg	13.5	76.7	30	40 - 150
2-Fluorophenol (Surrogate)	MS	1705207-66	ND	0.91509	1.3333	mg/kg		68.6	20 - 130	
	MSD	1705207-66	ND	1.0401	1.3514	mg/kg	12.8	77.0		20 - 130
Phenol-d5 (Surrogate)	MS	1705207-66	ND	0.99099	1.3333	mg/kg		74.3	30 - 130	
	MSD	1705207-66	ND	1.1209	1.3514	mg/kg	12.3	82.9		30 - 130
Nitrobenzene-d5 (Surrogate)	MS	1705207-66	ND	0.94017	1.3333	mg/kg		70.5	30 - 130	
	MSD	1705207-66	ND	1.0622	1.3514	mg/kg	12.2	78.6		30 - 130
2-Fluorobiphenyl (Surrogate)	MS	1705207-66	ND	1.2154	1.3333	mg/kg		91.2	30 - 140	
	MSD	1705207-66	ND	1.3216	1.3514	mg/kg	8.4	97.8		30 - 140
2,4,6-Tribromophenol (Surrogate)	MS	1705207-66	ND	0.80124	1.3333	mg/kg		60.1	20 - 150	
	MSD	1705207-66	ND	0.86303	1.3514	mg/kg	7.4	63.9		20 - 150
p-Terphenyl-d14 (Surrogate)	MS	1705207-66	ND	0.53229	0.66667	mg/kg		79.8	30 - 150	
	MSD	1705207-66	ND	0.56400	0.67568	mg/kg	5.8	83.5		30 - 150

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

## Total Petroleum Hydrocarbons

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B[D2645]</b>						
TPH - Gasoline	B[D2645-BLK1	ND	mg/kg	20	5.0	
TPH - Diesel (FFP)	B[D2645-BLK1	ND	mg/kg	10	1.2	
TPH - Motor Oil	B[D2645-BLK1	ND	mg/kg	20	6.5	
<b>Tetracosane (Surrogate)</b>	<b>B[D2645-BLK1</b>	<b>95.4</b>	<b>%</b>	<b>20 - 145 (LCL - UCL)</b>		

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**Project Manager:** Jennifer Brady

## Total Petroleum Hydrocarbons

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B[D2645</b>										
TPH - Diesel (FFP)	B[D2645-BS1	LCS	74.840	84.459	mg/kg	88.6		64	124	
Tetracosane (Surrogate)	B[D2645-BS1	LCS	3.5478	3.3784	mg/kg	105		20	145	

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
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**Project Manager:** Jennifer Brady

## Total Petroleum Hydrocarbons

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent		Lab Quals
								Recovery	RPD	
<b>QC Batch ID: B[D2645]</b>		Used client sample: N								
TPH - Diesel (FFP)	MS	1705207-73	ND	72.650	83.612	mg/kg		86.9		52 - 131
	MSD	1705207-73	ND	69.173	84.746	mg/kg	4.9	81.6	30	52 - 131
Tetracosane (Surrogate)	MS	1705207-73	ND	3.3171	3.3445	mg/kg		99.2		20 - 145
	MSD	1705207-73	ND	3.2776	3.3898	mg/kg	1.2	96.7		20 - 145

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Total Concentrations (TTLC)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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**QC Batch ID: B[D2593]**

Antimony	B[D2593-BLK1]	ND	mg/kg	5.0	0.33	
Arsenic	B[D2593-BLK1]	ND	mg/kg	1.0	0.40	
Barium	B[D2593-BLK1]	ND	mg/kg	0.50	0.18	
Beryllium	B[D2593-BLK1]	ND	mg/kg	0.50	0.047	
Cadmium	B[D2593-BLK1]	ND	mg/kg	0.50	0.052	
<b>Chromium</b>	<b>B[D2593-BLK1]</b>	<b>0.20930</b>	<b>mg/kg</b>	<b>0.50</b>	<b>0.050</b>	<b>J</b>
Cobalt	B[D2593-BLK1]	ND	mg/kg	2.5	0.098	
<b>Copper</b>	<b>B[D2593-BLK1]</b>	<b>0.050691</b>	<b>mg/kg</b>	<b>1.0</b>	<b>0.050</b>	<b>J</b>
Lead	B[D2593-BLK1]	ND	mg/kg	2.5	0.28	
Molybdenum	B[D2593-BLK1]	ND	mg/kg	2.5	0.050	
Nickel	B[D2593-BLK1]	ND	mg/kg	0.50	0.15	
Selenium	B[D2593-BLK1]	ND	mg/kg	1.0	0.98	
Silver	B[D2593-BLK1]	ND	mg/kg	0.50	0.067	
Thallium	B[D2593-BLK1]	ND	mg/kg	5.0	0.64	
Vanadium	B[D2593-BLK1]	ND	mg/kg	0.50	0.11	
<b>Zinc</b>	<b>B[D2593-BLK1]</b>	<b>0.27444</b>	<b>mg/kg</b>	<b>2.5</b>	<b>0.087</b>	<b>J</b>

**QC Batch ID: B[D2706]**

Antimony	B[D2706-BLK1]	ND	mg/kg	5.0	0.33	
Arsenic	B[D2706-BLK1]	ND	mg/kg	1.0	0.40	
Barium	B[D2706-BLK1]	ND	mg/kg	0.50	0.18	
Beryllium	B[D2706-BLK1]	ND	mg/kg	0.50	0.047	
Cadmium	B[D2706-BLK1]	ND	mg/kg	0.50	0.052	
<b>Chromium</b>	<b>B[D2706-BLK1]</b>	<b>0.16568</b>	<b>mg/kg</b>	<b>0.50</b>	<b>0.050</b>	<b>J</b>
Cobalt	B[D2706-BLK1]	ND	mg/kg	2.5	0.098	
<b>Copper</b>	<b>B[D2706-BLK1]</b>	<b>0.10542</b>	<b>mg/kg</b>	<b>1.0</b>	<b>0.050</b>	<b>J</b>
Lead	B[D2706-BLK1]	ND	mg/kg	2.5	0.28	
Molybdenum	B[D2706-BLK1]	ND	mg/kg	2.5	0.050	
Nickel	B[D2706-BLK1]	ND	mg/kg	0.50	0.15	
Selenium	B[D2706-BLK1]	ND	mg/kg	1.0	0.98	
Silver	B[D2706-BLK1]	ND	mg/kg	0.50	0.067	
Thallium	B[D2706-BLK1]	ND	mg/kg	5.0	0.64	
Vanadium	B[D2706-BLK1]	ND	mg/kg	0.50	0.11	
<b>Zinc</b>	<b>B[D2706-BLK1]</b>	<b>0.68141</b>	<b>mg/kg</b>	<b>2.5</b>	<b>0.087</b>	<b>J</b>

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**Reported:** 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

### Total Concentrations (TTLC)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B[D2727</b>						
Mercury	B[D2727-BLK1	ND	mg/kg	0.16	0.019	

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Project Manager: Jennifer Brady

### Total Concentrations (TTLC)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B[D2593]</b>										
Antimony	B[D2593-BS1]	LCS	94.038	100.00	mg/kg	94.0		75	125	
Arsenic	B[D2593-BS1]	LCS	8.5252	10.000	mg/kg	85.3		75	125	
Barium	B[D2593-BS1]	LCS	99.963	100.00	mg/kg	100		75	125	
Beryllium	B[D2593-BS1]	LCS	9.3685	10.000	mg/kg	93.7		75	125	
Cadmium	B[D2593-BS1]	LCS	9.3761	10.000	mg/kg	93.8		75	125	
Chromium	B[D2593-BS1]	LCS	104.74	100.00	mg/kg	105		75	125	
Cobalt	B[D2593-BS1]	LCS	99.128	100.00	mg/kg	99.1		75	125	
Copper	B[D2593-BS1]	LCS	91.359	100.00	mg/kg	91.4		75	125	
Lead	B[D2593-BS1]	LCS	97.121	100.00	mg/kg	97.1		75	125	
Molybdenum	B[D2593-BS1]	LCS	102.13	100.00	mg/kg	102		75	125	
Nickel	B[D2593-BS1]	LCS	98.360	100.00	mg/kg	98.4		75	125	
Selenium	B[D2593-BS1]	LCS	9.6258	10.000	mg/kg	96.3		75	125	
Silver	B[D2593-BS1]	LCS	9.0636	10.000	mg/kg	90.6		75	125	
Thallium	B[D2593-BS1]	LCS	107.87	100.00	mg/kg	108		75	125	
Vanadium	B[D2593-BS1]	LCS	100.52	100.00	mg/kg	101		75	125	
Zinc	B[D2593-BS1]	LCS	96.744	100.00	mg/kg	96.7		75	125	
<b>QC Batch ID: B[D2706]</b>										
Antimony	B[D2706-BS1]	LCS	98.806	100.00	mg/kg	98.8		75	125	
Arsenic	B[D2706-BS1]	LCS	9.1368	10.000	mg/kg	91.4		75	125	
Barium	B[D2706-BS1]	LCS	100.09	100.00	mg/kg	100		75	125	
Beryllium	B[D2706-BS1]	LCS	9.5002	10.000	mg/kg	95.0		75	125	
Cadmium	B[D2706-BS1]	LCS	9.7635	10.000	mg/kg	97.6		75	125	
Chromium	B[D2706-BS1]	LCS	107.54	100.00	mg/kg	108		75	125	
Cobalt	B[D2706-BS1]	LCS	101.37	100.00	mg/kg	101		75	125	
Copper	B[D2706-BS1]	LCS	94.641	100.00	mg/kg	94.6		75	125	
Lead	B[D2706-BS1]	LCS	99.563	100.00	mg/kg	99.6		75	125	
Molybdenum	B[D2706-BS1]	LCS	104.28	100.00	mg/kg	104		75	125	
Nickel	B[D2706-BS1]	LCS	100.44	100.00	mg/kg	100		75	125	
Selenium	B[D2706-BS1]	LCS	10.193	10.000	mg/kg	102		75	125	
Silver	B[D2706-BS1]	LCS	9.2140	10.000	mg/kg	92.1		75	125	
Thallium	B[D2706-BS1]	LCS	111.94	100.00	mg/kg	112		75	125	
Vanadium	B[D2706-BS1]	LCS	103.33	100.00	mg/kg	103		75	125	
Zinc	B[D2706-BS1]	LCS	100.49	100.00	mg/kg	100		75	125	

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**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Total Concentrations (TTLC)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B[D2727</b>										
Mercury	B[D2727-BS1	LCS	0.81344	0.80000	mg/kg	102		80 - 120		

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

Reported: 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

### Total Concentrations (TTLC)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: B[D2593]</b>		Used client sample: N								
Antimony	DUP	1711012-07	ND	ND		mg/kg			20	
	MS	1711012-07	ND	28.180	100.00	mg/kg		28.2		16 - 119
	MSD	1711012-07	ND	30.998	100.00	mg/kg	9.5	31.0	20	16 - 119
Arsenic	DUP	1711012-07	3.6498	3.4865		mg/kg	4.6		20	
	MS	1711012-07	3.6498	11.572	10.000	mg/kg		79.2		75 - 125
	MSD	1711012-07	3.6498	11.524	10.000	mg/kg	0.4	78.7	20	75 - 125
Barium	DUP	1711012-07	119.95	115.39		mg/kg	3.9		20	
	MS	1711012-07	119.95	215.19	100.00	mg/kg		95.2		75 - 125
	MSD	1711012-07	119.95	200.89	100.00	mg/kg	6.9	80.9	20	75 - 125
Beryllium	DUP	1711012-07	0.33431	0.31243		mg/kg	6.8		20	J
	MS	1711012-07	0.33431	8.1233	10.000	mg/kg		77.9		75 - 125
	MSD	1711012-07	0.33431	8.0259	10.000	mg/kg	1.2	76.9	20	75 - 125
Cadmium	DUP	1711012-07	0.091670	0.077821		mg/kg	16.3		20	J
	MS	1711012-07	0.091670	8.0449	10.000	mg/kg		79.5		75 - 125
	MSD	1711012-07	0.091670	8.1273	10.000	mg/kg	1.0	80.4	20	75 - 125
Chromium	DUP	1711012-07	39.906	37.921		mg/kg	5.1		20	
	MS	1711012-07	39.906	123.55	100.00	mg/kg		83.6		75 - 125
	MSD	1711012-07	39.906	122.67	100.00	mg/kg	0.7	82.8	20	75 - 125
Cobalt	DUP	1711012-07	11.397	10.649		mg/kg	6.8		20	
	MS	1711012-07	11.397	88.779	100.00	mg/kg		77.4		75 - 125
	MSD	1711012-07	11.397	86.866	100.00	mg/kg	2.2	75.5	20	75 - 125
Copper	DUP	1711012-07	22.981	21.673		mg/kg	5.9		20	
	MS	1711012-07	22.981	105.81	100.00	mg/kg		82.8		75 - 125
	MSD	1711012-07	22.981	102.44	100.00	mg/kg	3.2	79.5	20	75 - 125
Lead	DUP	1711012-07	17.003	16.007		mg/kg	6.0		20	
	MS	1711012-07	17.003	91.205	100.00	mg/kg		74.2		75 - 125 Q03
	MSD	1711012-07	17.003	92.108	100.00	mg/kg	1.0	75.1	20	75 - 125
Molybdenum	DUP	1711012-07	0.19855	0.28070		mg/kg	34.3		20	J,A02
	MS	1711012-07	0.19855	74.495	100.00	mg/kg		74.3		75 - 125 Q03
	MSD	1711012-07	0.19855	75.222	100.00	mg/kg	1.0	75.0	20	75 - 125
Nickel	DUP	1711012-07	35.544	33.747		mg/kg	5.2		20	
	MS	1711012-07	35.544	111.76	100.00	mg/kg		76.2		75 - 125
	MSD	1711012-07	35.544	110.44	100.00	mg/kg	1.2	74.9	20	75 - 125 Q03
Selenium	DUP	1711012-07	1.3536	1.8490		mg/kg	30.9		20	A02
	MS	1711012-07	1.3536	8.3026	10.000	mg/kg		69.5		75 - 125 Q03
	MSD	1711012-07	1.3536	9.0268	10.000	mg/kg	8.4	76.7	20	75 - 125
Silver	DUP	1711012-07	0.20760	0.23959		mg/kg	14.3		20	J
	MS	1711012-07	0.20760	7.6760	10.000	mg/kg		74.7		75 - 125 Q03
	MSD	1711012-07	0.20760	7.7646	10.000	mg/kg	1.1	75.6	20	75 - 125

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

Reported: 05/30/2017 9:23  
Project: Solid Analysis  
Project Number: GIG  
Project Manager: Jennifer Brady

### Total Concentrations (TTLC)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B[D2593]</b>		Used client sample: N								
Thallium	DUP	1711012-07	ND	ND		mg/kg			20	
	MS	1711012-07	ND	81.340	100.00	mg/kg		81.3		75 - 125
	MSD	1711012-07	ND	81.873	100.00	mg/kg	0.7	81.9	20	75 - 125
Vanadium	DUP	1711012-07	45.410	42.927		mg/kg	5.6		20	
	MS	1711012-07	45.410	126.92	100.00	mg/kg		81.5		75 - 125
	MSD	1711012-07	45.410	125.18	100.00	mg/kg	1.4	79.8	20	75 - 125
<b>Zinc</b>	DUP	<b>1711012-07</b>	<b>74.701</b>	<b>67.904</b>		<b>mg/kg</b>	<b>9.5</b>		<b>20</b>	
	MS	<b>1711012-07</b>	<b>74.701</b>	<b>152.42</b>	<b>100.00</b>	<b>mg/kg</b>		<b>77.7</b>		<b>75 - 125</b>
	MSD	<b>1711012-07</b>	<b>74.701</b>	<b>148.82</b>	<b>100.00</b>	<b>mg/kg</b>	<b>2.4</b>	<b>74.1</b>	<b>20</b>	<b>75 - 125</b> <b>Q03</b>
<b>QC Batch ID: B[D2706]</b>		Used client sample: Y - Description: CF-8 - Clean Fill (Import), 04/25/2017 13:10								
Antimony	DUP	1711138-06	ND	ND		mg/kg			20	
	MS	1711138-06	ND	35.279	100.00	mg/kg		35.3		16 - 119
	MSD	1711138-06	ND	35.154	100.00	mg/kg	0.4	35.2	20	16 - 119
Arsenic	DUP	1711138-06	3.5836	3.6289		mg/kg	1.3		20	
	MS	1711138-06	3.5836	12.026	10.000	mg/kg		84.4		75 - 125
	MSD	1711138-06	3.5836	12.588	10.000	mg/kg	4.6	90.0	20	75 - 125
Barium	DUP	1711138-06	166.90	155.50		mg/kg	7.1		20	
	MS	1711138-06	166.90	277.42	100.00	mg/kg		111		75 - 125
	MSD	1711138-06	166.90	248.72	100.00	mg/kg	10.9	81.8	20	75 - 125
Beryllium	DUP	1711138-06	0.27583	0.25864		mg/kg	6.4		20	J
	MS	1711138-06	0.27583	8.7086	10.000	mg/kg		84.3		75 - 125
	MSD	1711138-06	0.27583	8.6655	10.000	mg/kg	0.5	83.9	20	75 - 125
Cadmium	DUP	1711138-06	ND	ND		mg/kg			20	
	MS	1711138-06	ND	8.9590	10.000	mg/kg		89.6		75 - 125
	MSD	1711138-06	ND	8.9105	10.000	mg/kg	0.5	89.1	20	75 - 125
Chromium	DUP	1711138-06	31.832	28.487		mg/kg	11.1		20	
	MS	1711138-06	31.832	121.53	100.00	mg/kg		89.7		75 - 125
	MSD	1711138-06	31.832	122.73	100.00	mg/kg	1.0	90.9	20	75 - 125
Cobalt	DUP	1711138-06	9.3759	8.8364		mg/kg	5.9		20	
	MS	1711138-06	9.3759	92.936	100.00	mg/kg		83.6		75 - 125
	MSD	1711138-06	9.3759	92.284	100.00	mg/kg	0.7	82.9	20	75 - 125
Copper	DUP	1711138-06	22.038	21.390		mg/kg	3.0		20	
	MS	1711138-06	22.038	111.08	100.00	mg/kg		89.0		75 - 125
	MSD	1711138-06	22.038	110.17	100.00	mg/kg	0.8	88.1	20	75 - 125
Lead	DUP	1711138-06	7.1034	6.7784		mg/kg	4.7		20	
	MS	1711138-06	7.1034	88.124	100.00	mg/kg		81.0		75 - 125
	MSD	1711138-06	7.1034	88.290	100.00	mg/kg	0.2	81.2	20	75 - 125

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

### Total Concentrations (TTLC)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B[D2706]</b>		Used client sample: Y - Description: CF-8 - Clean Fill (Import), 04/25/2017 13:10								
Molybdenum	DUP	1711138-06	ND	ND		mg/kg			20	
	MS	1711138-06	ND	85.430	100.00	mg/kg		85.4		75 - 125
	MSD	1711138-06	ND	84.241	100.00	mg/kg	1.4	84.2	20	75 - 125
Nickel	DUP	1711138-06	33.022	31.483		mg/kg	4.8		20	
	MS	1711138-06	33.022	115.13	100.00	mg/kg		82.1		75 - 125
	MSD	1711138-06	33.022	114.25	100.00	mg/kg	0.8	81.2	20	75 - 125
Selenium	DUP	1711138-06	ND	ND		mg/kg			20	
	MS	1711138-06	ND	11.130	10.000	mg/kg		111		75 - 125
	MSD	1711138-06	ND	10.159	10.000	mg/kg	9.1	102	20	75 - 125
Silver	DUP	1711138-06	0.22257	0.21896		mg/kg	1.6		20	J
	MS	1711138-06	0.22257	8.7516	10.000	mg/kg		85.3		75 - 125
	MSD	1711138-06	0.22257	8.6569	10.000	mg/kg	1.1	84.3	20	75 - 125
Thallium	DUP	1711138-06	ND	ND		mg/kg			20	
	MS	1711138-06	ND	89.978	100.00	mg/kg		90.0		75 - 125
	MSD	1711138-06	ND	88.594	100.00	mg/kg	1.5	88.6	20	75 - 125
Vanadium	DUP	1711138-06	27.821	26.224		mg/kg	5.9		20	
	MS	1711138-06	27.821	117.88	100.00	mg/kg		90.1		75 - 125
	MSD	1711138-06	27.821	117.02	100.00	mg/kg	0.7	89.2	20	75 - 125
Zinc	DUP	1711138-06	42.445	41.936		mg/kg	1.2		20	
	MS	1711138-06	42.445	127.92	100.00	mg/kg		85.5		75 - 125
	MSD	1711138-06	42.445	126.12	100.00	mg/kg	1.4	83.7	20	75 - 125
<b>QC Batch ID: B[D2727]</b>		Used client sample: N								
Mercury	DUP	1711161-02	0.17177	0.16323		mg/kg	5.1		20	
	MS	1711161-02	0.17177	1.0676	0.80645	mg/kg		111		80 - 120
	MSD	1711161-02	0.17177	0.97419	0.80645	mg/kg	9.1	99.5	20	80 - 120

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**LABORATORY REPORT**



**Aquatic  
Testing  
Laboratories**

*"dedicated to providing quality aquatic toxicity testing"*

**Date:** May 28, 2017  
**Client:** BC Laboratories, Inc.  
4100 Atlas Court  
Bakersfield, CA 93308  
Attn: Kerrie Vaughan

4350 Transport Street, Unit 107  
Ventura, CA 93003  
(805) 650-0546 FAX (805) 650-0756  
CA ELAP Cert. No.: 1775

**Laboratory No.:** A-17052302-001  
**Sample ID.:** 1711138-06

**Sample Control:** The sample was received by ATL in a chilled state, with the chain of custody record attached.

Date Sampled: 04/25/17  
Date Received: 05/23/17  
Date Tested: 05/24/17 to 05/28/17

**Sample Analysis:** The following analyses were performed on your sample:  
CCR Title 22 - Fathead Minnow Hazardous Waste Screen Bioassay (Polisini and Miller 1988).  
Attached are the test data generated from the analysis of your sample. All testing was conducted under the direct supervision of Joseph A. LeMay.

**Result Summary:**

<u>Sample ID.</u>	<u>Results</u>
1711138-06	PASS (LC50 > 750 mg/l)

**Quality Control:** Reviewed and approved by:

Joseph A. LeMay  
Laboratory Director

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of the Laboratory's name for advertising or publicity purpose without authorization is prohibited.



FATHEAD MINNOW HAZARDOUS WASTE SCREEN BIOASSAY



Lab No.: A17052302-001

Client/ID: BC 1711138-06 A

TEST SUMMARY

Species: Pimephales promelas. Fish weight (gm): av: 0.48; min: 0.41; max: 0.53. Reference Toxicant: SDS conducted per batch. Test chamber volume: 10 liters. Temperature: 20 +/- 2°C. Aeration: none, unless D.O. drops below 5.0 mg/l. Number of replicates: 2. Dilution water: Soft reconstituted water (40-48 mg/l CaCO3).

Source: Thomas Fish. Regulations: CCR Title 22. Test Protocol: California F&G/DHS 1988. Endpoints: Survival at 96 hrs. Test type: Static. Feeding: None. Number of fish per chamber: 10. Photoperiod: 16/8 hrs light/dark.

TEST DATA

Table with columns for INITIAL, 24 Hr, 48 Hr, 72 Hr, and 96 Hr. Rows include Date/Time, Analyst, and parameters like °C, DO, pH, #D for Control A, Control B, 400 mg/l A, 400 mg/l B, 750 mg/l A, and 750 mg/l B. Includes a comments section at the bottom.

Summary table with columns for CONTROL and HIGH CONCENTRATION, and a separate column for Total Number Dead. Rows show Alkalinity and Hardness for Initial and Final states, and Total Number Dead for Control, 400 mg/l, and 750 mg/l.

RESULTS table with columns for result status (PASSED, FAILED) and LC50 values. Includes a note: (the checked (✓) result applies based on fish survival rates of this test; NA - not applicable).

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**SUBCONTRACT ORDER**

**BC Laboratories  
1711138**

**SENDING LABORATORY:**

BC Laboratories  
4100 Atlas Ct  
Bakersfield, CA 93308  
Phone: 661-327-4911  
Fax: 661-327-1918  
Project Manager: Kerrie Vaughan

**RECEIVING LABORATORY:**

Aquatic Testing Laboratory \$AQTCT  
4350 Transport St. #107  
Ventura, CA 93003  
Phone : (805) 650-0546  
Fax: (805) 650-0756

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 1711138-06	Solids	Sampled:04/25/17 13:10		
ois Fish Tox AQTCT	05/10/17 17:00	04/24/18 13:10		
Containers Supplied:	8 oz jar			

Released By Date 5-22-17  
 Received By Date 5-23-17 1320  
 Released By \_\_\_\_\_ Date \_\_\_\_\_  
 Received By \_\_\_\_\_ Date \_\_\_\_\_

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E & B Natural Resources Management Corp.  
34740 Merced Ave  
Bakersfield, CA 93308

**Reported:** 05/30/2017 9:23  
**Project:** Solid Analysis  
**Project Number:** GIG  
**Project Manager:** Jennifer Brady

**Notes And Definitions**

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- Q02 Matrix spike precision is not within the control limits.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.



# **ATTACHMENT D**

*Monitoring Well Sampling Data Sheets*

**MONITORING WELL SAMPLING DATA SHEET**

WELL NO: MW-1  
 TOC ELEV: 656.55  
 BORING DIAMETER (d): 8"  
 WELL CASING DIAMETER: 2"

PROJECT NO: 538.0915  
 DATE: 5/9/17  
 JOB NAME: SIG FACILITY  
 JOB ADDRESS: 8467 PATERSON PASS RD  
 SAMPLED BY: DUB

DEPTH MEASURED	FEET
DEPTH TO WATER (D)	35.22
DEPTH TO PRODUCT	na
PRODUCT THICKNESS	0
DEPTH TO BOTTOM OF CASING	59.65
WATER THICKNESS (h)	24.43

Groundwater Elevation: TOC-D = 621.33

VOLUME OF WATER TO BE PURGED  
 3 Well Volumes:  $3 \times 0.17 \times h = 1246$

VOLUME OF WATER PURGED FROM WELL: 15 gallons

TIME	pH	TEMP (F)	DO	Cond	TDS (ppm)	ORP	Turb (NTU)	VOL (gal)	APPEARANCE
930	8.63	17.46	11.79	2.42	<del>550</del>	40	>500	1	SLIGHTLY CLOUDY, NO O/S
933	7.92	17.71	7.42	2.36	1510	80	278	2.5	CLEARER, NO O/S
938	7.11	18.54	7.83	2.36	1510	132	55.4	5	CLEAR, NO O/S
943	6.58	19.00	6.94	2.35	1510	161	28	7.5	"
947	6.55	18.93	6.87	2.37	1520	170	14.2	10	"
951	6.97	18.99	7.10	2.35	1520	171	8.1	15	"

TIME SAMPLED COLLECTED: 951  
 DEPTH RECOVERED TO: LOW FLOW METHOD  
 SAMPLER TYPE: DIRECT DEWET  
 SAMPLE CONTAINERS: 3 VOA, 2 L, 1 PLASTIC  
 TESTS REQUIRED: 8015, 8260, 8270, 6010  
 ANALYTICAL LAB: Analytical Sciences, Petaluma  
 COMMENTS: NO O/S OR STRAW (O/S) IN SAMPLE,

**MONITORING WELL SAMPLING DATA SHEET**

WELL NO: MW-2

TOC ELEV: 654.70

BORING DIAMETER (d): 8"

WELL CASING DIAMETER: 2"

PROJECT NO: 538.0915

DATE: 5/9/17

JOB NAME: GIG FACILITY

JOB ADDRESS: 8467 PATTERSON PASS RD

SAMPLED BY: DUB

DEPTH MEASURED	FEET
DEPTH TO WATER (D)	44.52
DEPTH TO PRODUCT	na
PRODUCT THICKNESS	0
DEPTH TO BOTTOM OF CASING	59.65
WATER THICKNESS (h)	15.13

Groundwater Elevation: TOC-D = 610.18

VOLUME OF WATER TO BE PURGED  
3 Well Volumes:  $3 \times 0.17 \times h =$  7.72

VOLUME OF WATER PURGED FROM WELL: 10 gallons

TIME	pH	TEMP (F)	DO	Cond	TDS (ppm)	ORP	Turb (NTU)	VOL (gal)	APPEARANCE
1027	6.89	20.91	6.33	2.47	1580	183	7500	1	CLOUDY, NO O/S
1031	6.62	20.87	6.11	2.47	1580	185	305	2.5	CLEARING, NO O/S
1035	6.48	20.15	5.57	2.49	1590	193	271	5	"
1040	6.34	21.11	5.42	2.28	1460	197	118	7.5	"
1050	6.46	19.75	5.51	2.47	1580	202	81	10	CLEAR, NO O/S
<del>1050</del>									

TIME SAMPLED COLLECTED: 1050

DEPTH RECOVERED TO: LOW FLOW

SAMPLER TYPE: DIRECT DECLANT

SAMPLE CONTAINERS: 3VOA, 2L, PLASTIC

TESTS REQUIRED: 8015, 8260, 8270, 6010

ANALYTICAL LAB: Analytical Sciences, Petaluma

COMMENTS: NO ODOUR OR SOLIDS (O/S) IN SAMPLE.

**MONITORING WELL SAMPLING DATA SHEET**

WELL NO: MW-3  
 TOC ELEV: 655.41  
 BORING DIAMETER (d): 8"  
 WELL CASING DIAMETER: 2"

PROJECT NO: 538.0915  
 DATE: 5/9/17  
 JOB NAME: G10 FACILITY  
 JOB ADDRESS: 8467 PATTERSON PARK RD  
 SAMPLED BY: DLB

DEPTH MEASURED	FEET
DEPTH TO WATER (D)	44.01
DEPTH TO PRODUCT	na
PRODUCT THICKNESS	0
DEPTH TO BOTTOM OF CASING	59.75
WATER THICKNESS (h)	15.74

Groundwater Elevation: TOC-D = Cell. 40

VOLUME OF WATER TO BE PURGED  
 3 Well Volumes:  $3 \times 0.17 \times h = 8.03$

VOLUME OF WATER PURGED FROM WELL: 10 gallons

TIME	pH	TEMP (F)	DO	Cond	TDS (ppm)	ORP	Turb (NTU)	VOL (gal)	APPEARANCE
1125	6.84	22.62	6.37	2.33	1490	197	2500	1	CLOUDY, NO O/S
1128	6.61	20.05	6.94	2.41	1560	201	213	2.5	CLEARING, "
1132	6.45	17.93	7.83	2.46	1570	203	187	5	"
1136	6.42	19.41	7.94	2.43	1550	206	83	7.5	CLEAR, NO O/S
1141	6.37	19.34	7.67	2.47	1580	210	67	10	"

TIME SAMPLED COLLECTED: 1141  
 DEPTH RECOVERED TO: LOW FLOW METHOD  
 SAMPLER TYPE: DIRECT DECAUNT  
 SAMPLE CONTAINERS: 3 VOA, 2L, PLASTIC  
 TESTS REQUIRED: 8015, 8260, 8270, 6010

ANALYTICAL LAB: Analytical Sciences, Petaluma

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

# **ATTACHMENT E**

## ***Monitoring Well Sampling Analytical Report***





Report Date: May 23, 2017

## Laboratory Report

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Project Name: **8467 Patterson Pass Rd.** **538.0915**  
Lab Project Number: **7050915**

This 29 page report of analytical data has been reviewed and approved for release.

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Mark A. Valentini, Ph.D.

Laboratory Director



## Volatile Hydrocarbons by GC/MS

Lab#	Sample ID	Compound Name	Result (µg/L)	RDL (µg/L)
7050915-01	MW-1	Gasoline	ND	50
		Dichlorodifluoromethane (F-12)	ND	1.0
		Chloromethane	ND	1.0
		Vinyl chloride	ND	1.0
		Chloroethane (CE)	ND	1.0
		Bromomethane	ND	1.0
		Trichlorofluoromethane (F-11)	ND	1.0
		Trichlorotrifluoroethane (F-113)	ND	1.0
		1,1-Dichloroethene (1,1-DCE)	ND	1.0
		Methylene chloride	ND	1.0
		trans-1,2-Dichloroethene	ND	1.0
		1,1-Dichloroethane (1,1-DCA)	ND	1.0
		cis-1,2-Dichloroethene (c1,2-DCE)	ND	1.0
		2,2-Dichloropropane	ND	1.0
		Chloroform (THM1)	ND	1.0
		Bromochloromethane	ND	1.0
		1,1,1-Trichloroethane (TCA)	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		1,1-Dichloropropene	ND	1.0
		Carbon tetrachloride	ND	1.0
		Benzene	ND	1.0
		Trichloroethene (TCE)	ND	1.0
		1,2-Dichloropropane (DCP)	ND	1.0
		Dibromomethane	ND	1.0
		Bromodichloromethane (THM2)	ND	1.0
		cis-1,3-Dichloropropene	ND	1.0
		Toluene	ND	1.0
		1,1,2-Trichloroethane	ND	1.0
		1,3-Dichloropropane	ND	1.0
		Dibromochloromethane (THM3)	ND	1.0
		Tetrachloroethene (PCE)	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		Chlorobenzene	ND	1.0
		1,1,1,2-Tetrachloroethane	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		Styrene	ND	1.0
		o-Xylene	ND	1.0
		Bromoform (THM4)	ND	1.0
		1,1,2,2-Tetrachloroethane	ND	1.0
		Isopropylbenzene	ND	1.0
		1,2,3-Trichloropropane	ND	1.0
		Bromobenzene	ND	1.0
		n-Propyl Benzene	ND	1.0
		2-Chlorotoluene	ND	1.0
		4-Chlorotoluene	ND	1.0
		1,3,5-Trimethylbenzene	ND	1.0
		tert-Butylbenzene	ND	1.0
		1,2,4-Trimethylbenzene	ND	1.0



### Volatile Hydrocarbons by GC/MS

Lab#	Sample ID	Compound Name	Result (µg/L)	RDL (µg/L)
7050915-01	MW-1	sec-Butylbenzene	ND	1.0
		1,3-Dichlorobenzene	ND	1.0
		1,4-Dichlorobenzene	ND	1.0
		1,2-Dichlorobenzene	ND	1.0
		p-Isopropyltoluene	ND	1.0
		n-Butylbenzene	ND	1.0
		1,2-Dibromo-3-chloropropane	ND	1.0
		1,2,4-Trichlorobenzene	ND	1.0
		Naphthalene	ND	1.0
		Hexachlorobutadiene	ND	1.0
		1,2,3-Trichlorobenzene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates	Result (µg/L)	% Recovery	Acceptance Range (%)	
Dibromofluoromethane	19.3	97	70-130	
Toluene-d8	20.1	101	70-130	
4-Bromofluorobenzene	18.1	90	70-130	

Date Sampled:	05/09/17	Date Analyzed:	05/09/17	QC Batch:	B016719
Date Received:	05/09/17	Method:	EPA 8260B		



## Volatile Hydrocarbons by GC/MS

Lab#	Sample ID	Compound Name	Result (µg/L)	RDL (µg/L)
7050915-02	MW-2	Gasoline	ND	50
		Dichlorodifluoromethane (F-12)	ND	1.0
		Chloromethane	ND	1.0
		Vinyl chloride	ND	1.0
		Chloroethane (CE)	ND	1.0
		Bromomethane	ND	1.0
		Trichlorofluoromethane (F-11)	ND	1.0
		Trichlorotrifluoroethane (F-113)	ND	1.0
		1,1-Dichloroethene (1,1-DCE)	ND	1.0
		Methylene chloride	ND	1.0
		trans-1,2-Dichloroethene	ND	1.0
		1,1-Dichloroethane (1,1-DCA)	ND	1.0
		cis-1,2-Dichloroethene (c1,2-DCE)	ND	1.0
		2,2-Dichloropropane	ND	1.0
		Chloroform (THM1)	ND	1.0
		Bromochloromethane	ND	1.0
		1,1,1-Trichloroethane (TCA)	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		1,1-Dichloropropene	ND	1.0
		Carbon tetrachloride	ND	1.0
		Benzene	ND	1.0
		Trichloroethene (TCE)	ND	1.0
		1,2-Dichloropropane (DCP)	ND	1.0
		Dibromomethane	ND	1.0
		Bromodichloromethane (THM2)	ND	1.0
		cis-1,3-Dichloropropene	ND	1.0
		Toluene	ND	1.0
		1,1,2-Trichloroethane	ND	1.0
		1,3-Dichloropropane	ND	1.0
		Dibromochloromethane (THM3)	ND	1.0
		Tetrachloroethene (PCE)	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		Chlorobenzene	ND	1.0
		1,1,1,2-Tetrachloroethane	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		Styrene	ND	1.0
		o-Xylene	ND	1.0
		Bromoform (THM4)	ND	1.0
		1,1,2,2-Tetrachloroethane	ND	1.0
		Isopropylbenzene	ND	1.0
		1,2,3-Trichloropropane	ND	1.0
		Bromobenzene	ND	1.0
		n-Propyl Benzene	ND	1.0
		2-Chlorotoluene	ND	1.0
		4-Chlorotoluene	ND	1.0
		1,3,5-Trimethylbenzene	ND	1.0
		tert-Butylbenzene	ND	1.0
		1,2,4-Trimethylbenzene	ND	1.0



### Volatile Hydrocarbons by GC/MS

Lab#	Sample ID	Compound Name	Result (µg/L)	RDL (µg/L)
7050915-02	MW-2	sec-Butylbenzene	ND	1.0
		1,3-Dichlorobenzene	ND	1.0
		1,4-Dichlorobenzene	ND	1.0
		1,2-Dichlorobenzene	ND	1.0
		p-Isopropyltoluene	ND	1.0
		n-Butylbenzene	ND	1.0
		1,2-Dibromo-3-chloropropane	ND	1.0
		1,2,4-Trichlorobenzene	ND	1.0
		Naphthalene	ND	1.0
		Hexachlorobutadiene	ND	1.0
		1,2,3-Trichlorobenzene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates	Result (µg/L)	% Recovery	Acceptance Range (%)	
Dibromofluoromethane	20.7	104	70-130	
Toluene-d8	19.4	97	70-130	
4-Bromofluorobenzene	20.1	100	70-130	
Date Sampled:	05/09/17	Date Analyzed:	05/09/17	QC Batch: B016719
Date Received:	05/09/17	Method:	EPA 8260B	





## Volatile Hydrocarbons by GC/MS

Lab#	Sample ID	Compound Name	Result (µg/L)	RDL (µg/L)
7050915-03	MW-3	Gasoline	ND	50
		Dichlorodifluoromethane (F-12)	ND	1.0
		Chloromethane	ND	1.0
		Vinyl chloride	ND	1.0
		Chloroethane (CE)	ND	1.0
		Bromomethane	ND	1.0
		Trichlorofluoromethane (F-11)	ND	1.0
		Trichlorotrifluoroethane (F-113)	ND	1.0
		1,1-Dichloroethene (1,1-DCE)	ND	1.0
		Methylene chloride	ND	1.0
		trans-1,2-Dichloroethene	ND	1.0
		1,1-Dichloroethane (1,1-DCA)	ND	1.0
		cis-1,2-Dichloroethene (c1,2-DCE)	ND	1.0
		2,2-Dichloropropane	ND	1.0
		Chloroform (THM1)	ND	1.0
		Bromochloromethane	ND	1.0
		1,1,1-Trichloroethane (TCA)	ND	1.0
		1,2-Dichloroethane (EDC)	ND	1.0
		1,1-Dichloropropene	ND	1.0
		Carbon tetrachloride	ND	1.0
		Benzene	ND	1.0
		Trichloroethene (TCE)	ND	1.0
		1,2-Dichloropropane (DCP)	ND	1.0
		Dibromomethane	ND	1.0
		Bromodichloromethane (THM2)	ND	1.0
		cis-1,3-Dichloropropene	ND	1.0
		Toluene	ND	1.0
		1,1,2-Trichloroethane	ND	1.0
		1,3-Dichloropropane	ND	1.0
		Dibromochloromethane (THM3)	ND	1.0
		Tetrachloroethene (PCE)	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		Chlorobenzene	ND	1.0
		1,1,1,2-Tetrachloroethane	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		Styrene	ND	1.0
		o-Xylene	ND	1.0
		Bromoform (THM4)	ND	1.0
		1,1,2,2-Tetrachloroethane	ND	1.0
		Isopropylbenzene	ND	1.0
		1,2,3-Trichloropropane	ND	1.0
		Bromobenzene	ND	1.0
		n-Propyl Benzene	ND	1.0
		2-Chlorotoluene	ND	1.0
		4-Chlorotoluene	ND	1.0
		1,3,5-Trimethylbenzene	ND	1.0
		tert-Butylbenzene	ND	1.0
		1,2,4-Trimethylbenzene	ND	1.0



### Volatile Hydrocarbons by GC/MS

Lab#	Sample ID	Compound Name	Result (µg/L)	RDL (µg/L)
7050915-03	MW-3	sec-Butylbenzene	ND	1.0
		1,3-Dichlorobenzene	ND	1.0
		1,4-Dichlorobenzene	ND	1.0
		1,2-Dichlorobenzene	ND	1.0
		p-Isopropyltoluene	ND	1.0
		n-Butylbenzene	ND	1.0
		1,2-Dibromo-3-chloropropane	ND	1.0
		1,2,4-Trichlorobenzene	ND	1.0
		Naphthalene	ND	1.0
		Hexachlorobutadiene	ND	1.0
		1,2,3-Trichlorobenzene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates	Result (µg/L)	% Recovery	Acceptance Range (%)	
Dibromofluoromethane	22.6	113	70-130	
Toluene-d8	18.4	92	70-130	
4-Bromofluorobenzene	19.7	99	70-130	

Date Sampled: 05/09/17	Date Analyzed: 05/11/17	QC Batch: B016719
Date Received: 05/09/17	Method: EPA 8260B	

### TPH Diesel & Motor Oil

Lab#	Sample ID	Compound Name	Result (µg/L)	RDL (µg/L)
7050915-01	MW-1	Diesel	ND	50
		Motor Oil	ND	200

Date Sampled: 05/09/17	Date Analyzed: 05/10/17	QC Batch: B016636
Date Received: 05/09/17	Method: EPA 8015B	



### TPH Diesel & Motor Oil

Lab#	Sample ID	Compound Name	Result (µg/L)	RDL (µg/L)
7050915-02	MW-2	Diesel	ND	50
		Motor Oil	ND	200

Date Sampled:	05/09/17	Date Analyzed:	05/10/17	QC Batch: B016636
Date Received:	05/09/17	Method:	EPA 8015B	

### TPH Diesel & Motor Oil

Lab#	Sample ID	Compound Name	Result (µg/L)	RDL (µg/L)
7050915-03	MW-3	Diesel	ND	50
		Motor Oil	ND	200

Date Sampled:	05/09/17	Date Analyzed:	05/10/17	QC Batch: B016636
Date Received:	05/09/17	Method:	EPA 8015B	

### Metals

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
7050915-01	MW-1	Boron (B)	7.8	0.50
		Calcium (Ca)	140	10
		Magnesium (Mg)	48	4.0
		Potassium (K)	3.0	0.10
		Sodium (Na)	310	4.0

Date Sampled:	05/09/17	Date Analyzed:	05/18/17	QC Batch: B016696
Date Received:	05/09/17	Method:	EPA 6010B	



### Metals

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
7050915-02	MW-2	Boron (B)	8.0	0.50
		Calcium (Ca)	160	10
		Magnesium (Mg)	55	4.0
		Potassium (K)	4.8	0.10
		Sodium (Na)	320	4.0

Date Sampled:	05/09/17	Date Analyzed:	05/18/17	QC Batch:	B016696
Date Received:	05/09/17	Method:	EPA 6010B		

### Metals

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
7050915-03	MW-3	Boron (B)	8.5	0.50
		Calcium (Ca)	160	10
		Magnesium (Mg)	53	4.0
		Potassium (K)	4.1	0.10
		Sodium (Na)	330	4.0

Date Sampled:	05/09/17	Date Analyzed:	05/18/17	QC Batch:	B016696
Date Received:	05/09/17	Method:	EPA 6010B		



### CAM Metals

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
7050915-01	MW-1	Antimony (Sb)	ND	0.050
		Arsenic (As)	ND	0.020
		Barium (Ba)	ND	0.050
		Beryllium (Be)	ND	0.010
		Cadmium (Cd)	ND	0.010
		Chromium (Cr)	ND	0.010
		Cobalt (Co)	ND	0.050
		Copper (Cu)	ND	0.050
		Lead (Pb)	ND	0.050
		Molybdenum (Mo)	ND	0.020
		Nickel (Ni)	ND	0.050
		Selenium (Se)	ND	0.050
		Silver (Ag)	ND	0.010
		Thallium (Tl)	ND	0.050
		Vanadium (V)	ND	0.020
		Zinc (Zn)	ND	0.050

Date Sampled:	05/09/17	Date Analyzed:	05/18/17	QC Batch:	B016696
Date Received:	05/09/17	Method:	EPA 200.7		





### CAM Metals

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
7050915-02	MW-2	Antimony (Sb)	ND	0.050
		Arsenic (As)	ND	0.020
		Barium (Ba)	ND	0.050
		Beryllium (Be)	ND	0.010
		Cadmium (Cd)	ND	0.010
		Chromium (Cr)	ND	0.010
		Cobalt (Co)	ND	0.050
		Copper (Cu)	ND	0.050
		Lead (Pb)	ND	0.050
		Molybdenum (Mo)	ND	0.020
		Nickel (Ni)	ND	0.050
		Selenium (Se)	ND	0.050
		Silver (Ag)	ND	0.010
		Thallium (Tl)	ND	0.050
		Vanadium (V)	ND	0.020
		Zinc (Zn)	ND	0.050

Date Sampled:	05/09/17	Date Analyzed:	05/18/17	QC Batch:	B016696
Date Received:	05/09/17	Method:	EPA 200.7		



### CAM Metals

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
7050915-03	MW-3	Antimony (Sb)	ND	0.050
		Arsenic (As)	ND	0.020
		Barium (Ba)	ND	0.050
		Beryllium (Be)	ND	0.010
		Cadmium (Cd)	ND	0.010
		Chromium (Cr)	ND	0.010
		Cobalt (Co)	ND	0.050
		Copper (Cu)	ND	0.050
		Lead (Pb)	ND	0.050
		Molybdenum (Mo)	ND	0.020
		Nickel (Ni)	ND	0.050
		Selenium (Se)	ND	0.050
		Silver (Ag)	ND	0.010
		Thallium (Tl)	ND	0.050
		Vanadium (V)	ND	0.020
		Zinc (Zn)	ND	0.050

Date Sampled:	05/09/17	Date Analyzed:	05/18/17	QC Batch:	B016696
Date Received:	05/09/17	Method:	EPA 200.7		

### Mercury

Lab#	Sample ID	Compound Name	Result (µg/L)	RDL (µg/L)
7050915-01	MW-1	Mercury (Hg)	ND	0.20

Date Sampled:	05/09/17	Date Analyzed:	05/22/17	QC Batch:	B016670
Date Received:	05/09/17	Method:	EPA 7470A		

### Mercury

Lab#	Sample ID	Compound Name	Result (µg/L)	RDL (µg/L)
7050915-02	MW-2	Mercury (Hg)	ND	0.20

Date Sampled:	05/09/17	Date Analyzed:	05/22/17	QC Batch:	B016670
Date Received:	05/09/17	Method:	EPA 7470A		



### Mercury

Lab#	Sample ID	Compound Name	Result (µg/L)	RDL (µg/L)
7050915-03	MW-3	Mercury (Hg)	ND	0.20

Date Sampled:	05/09/17	Date Analyzed:	05/22/17	QC Batch:	B016670
Date Received:	05/09/17	Method:	EPA 7470A		

### Conductivity

Lab#	Sample ID	Compound Name	Result (µS/cm)	RDL (µS/cm)
7050915-01	MW-1	Conductivity	2500	2.5

Date Sampled:	05/09/17	Date Analyzed:	05/09/17	QC Batch:	B016714
Date Received:	05/09/17	Method:	SM 2510 B-2011		

### Conductivity

Lab#	Sample ID	Compound Name	Result (µS/cm)	RDL (µS/cm)
7050915-02	MW-2	Conductivity	2700	2.5

Date Sampled:	05/09/17	Date Analyzed:	05/09/17	QC Batch:	B016714
Date Received:	05/09/17	Method:	SM 2510 B-2011		

### Conductivity

Lab#	Sample ID	Compound Name	Result (µS/cm)	RDL (µS/cm)
7050915-03	MW-3	Conductivity	2700	2.5

Date Sampled:	05/09/17	Date Analyzed:	05/09/17	QC Batch:	B016714
Date Received:	05/09/17	Method:	SM 2510 B-2011		



### Alkalinity

Lab#	Sample ID	Compound Name	Result (mg CaCO3/L)	RDL (mg CaCO3/L)
7050915-01	MW-1	Total Alkalinity	280	5.0
		Bicarbonate Alkalinity	280	5.0
		Carbonate Alkalinity	ND	5.0
		Hydroxide Alkalinity	ND	5.0

Date Sampled:	05/09/17	Date Analyzed:	05/12/17	QC Batch:	B016718
Date Received:	05/09/17	Method:	SM 2320 B-2011		

### Alkalinity

Lab#	Sample ID	Compound Name	Result (mg CaCO3/L)	RDL (mg CaCO3/L)
7050915-02	MW-2	Total Alkalinity	290	5.0
		Bicarbonate Alkalinity	290	5.0
		Carbonate Alkalinity	ND	5.0
		Hydroxide Alkalinity	ND	5.0

Date Sampled:	05/09/17	Date Analyzed:	05/12/17	QC Batch:	B016718
Date Received:	05/09/17	Method:	SM 2320 B-2011		

### Alkalinity

Lab#	Sample ID	Compound Name	Result (mg CaCO3/L)	RDL (mg CaCO3/L)
7050915-03	MW-3	Total Alkalinity	290	5.0
		Bicarbonate Alkalinity	290	5.0
		Carbonate Alkalinity	ND	5.0
		Hydroxide Alkalinity	ND	5.0

Date Sampled:	05/09/17	Date Analyzed:	05/12/17	QC Batch:	B016718
Date Received:	05/09/17	Method:	SM 2320 B-2011		



### Anions

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
7050915-01	MW-1	Chloride	380	25
		Nitrate as N	7.5	0.75
		Sulfate as SO4	330	25

Date Sampled:	05/09/17	Date Analyzed:	05/09/17	QC Batch:	B016704
Date Received:	05/09/17	Method:	EPA 300.0		

### Anions

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
7050915-02	MW-2	Chloride	380	25
		Nitrate as N	5.7	0.75
		Sulfate as SO4	460	25

Date Sampled:	05/09/17	Date Analyzed:	05/09/17	QC Batch:	B016704
Date Received:	05/09/17	Method:	EPA 300.0		

### Anions

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
7050915-03	MW-3	Chloride	450	25
		Nitrate as N	8.1	0.75
		Sulfate as SO4	390	25

Date Sampled:	05/09/17	Date Analyzed:	05/09/17	QC Batch:	B016704
Date Received:	05/09/17	Method:	EPA 300.0		

### Total Dissolved Solids

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
7050915-01	MW-1	Total Dissolved Solids	1300	10

Date Sampled:	05/09/17	Date Analyzed:	05/10/17	QC Batch:	B016720
Date Received:	05/09/17	Method:	SM 2540 C-2011		





### Total Dissolved Solids

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
7050915-02	MW-2	Total Dissolved Solids	1500	10

Date Sampled:	05/09/17	Date Analyzed:	05/10/17	QC Batch:	B016720
Date Received:	05/09/17	Method:	SM 2540 C-2011		

### Total Dissolved Solids

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
7050915-03	MW-3	Total Dissolved Solids	1400	10

Date Sampled:	05/09/17	Date Analyzed:	05/10/17	QC Batch:	B016720
Date Received:	05/09/17	Method:	SM 2540 C-2011		



## Quality Assurance Report

### Volatile Hydrocarbons by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B016719 - EPA 5030 GC/MS**

**Blank (B016719-BLK1)**

Prepared & Analyzed: 05/09/17

Gasoline	ND	50	µg/L
Dichlorodifluoromethane (F-12)	ND	1.0	µg/L
Chloromethane	ND	1.0	µg/L
Vinyl chloride	ND	1.0	µg/L
Chloroethane (CE)	ND	1.0	µg/L
Bromomethane	ND	1.0	µg/L
Trichlorofluoromethane (F-11)	ND	1.0	µg/L
Trichlorotrifluoroethane (F-113)	ND	1.0	µg/L
1,1-Dichloroethene (1,1-DCE)	ND	1.0	µg/L
Methylene chloride	ND	1.0	µg/L
trans-1,2-Dichloroethene	ND	1.0	µg/L
1,1-Dichloroethane (1,1-DCA)	ND	1.0	µg/L
cis-1,2-Dichloroethene (c1,2-DCE)	ND	1.0	µg/L
2,2-Dichloropropane	ND	1.0	µg/L
Chloroform (THM1)	ND	1.0	µg/L
Bromochloromethane	ND	1.0	µg/L
1,1,1-Trichloroethane (TCA)	ND	1.0	µg/L
1,2-Dichloroethane (EDC)	ND	1.0	µg/L
1,1-Dichloropropene	ND	1.0	µg/L
Carbon tetrachloride	ND	1.0	µg/L
Benzene	ND	1.0	µg/L
Trichloroethene (TCE)	ND	1.0	µg/L
1,2-Dichloropropane (DCP)	ND	1.0	µg/L
Dibromomethane	ND	1.0	µg/L
Bromodichloromethane (THM2)	ND	1.0	µg/L
cis-1,3-Dichloropropene	ND	1.0	µg/L
Toluene	ND	1.0	µg/L
1,1,2-Trichloroethane	ND	1.0	µg/L
1,3-Dichloropropane	ND	1.0	µg/L
Dibromochloromethane (THM3)	ND	1.0	µg/L
Tetrachloroethene (PCE)	ND	1.0	µg/L
1,2-Dibromoethane (EDB)	ND	1.0	µg/L
Chlorobenzene	ND	1.0	µg/L
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L
Ethylbenzene	ND	1.0	µg/L
m,p-Xylene	ND	1.0	µg/L
Styrene	ND	1.0	µg/L
o-Xylene	ND	1.0	µg/L
Bromoform (THM4)	ND	1.0	µg/L
1,1,2,2-Tetrachloroethane	ND	1.0	µg/L
Isopropylbenzene	ND	1.0	µg/L



## Volatile Hydrocarbons by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B016719 - EPA 5030 GC/MS**

**Blank (B016719-BLK1)**

Prepared & Analyzed: 05/09/17

1,2,3-Trichloropropane	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
n-Propyl Benzene	ND	1.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
p-Isopropyltoluene	ND	1.0	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane	ND	1.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
Naphthalene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	1.0	µg/L							
Tertiary Butyl Alcohol (TBA)	ND	12	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Di-isopropyl Ether (DIPE)	ND	1.0	µg/L							
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	µg/L							
Tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L							

Surrogate: Dibromofluoromethane	21.0	µg/L	20.0	105	70-130
Surrogate: Toluene-d8	18.5	µg/L	20.0	93	70-130
Surrogate: 4-Bromofluorobenzene	18.3	µg/L	20.0	92	70-130



## Volatile Hydrocarbons by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B016719 - EPA 5030 GC/MS</b>										
<b>Matrix Spike (B016719-MS1)</b>		<b>Source: 7050915-01</b>			<b>Prepared &amp; Analyzed: 05/09/17</b>					
1,1-Dichloroethene (1,1-DCE)	21.8	1.0	µg/L	25.0	ND	87	70-130			
Benzene	22.3	1.0	µg/L	25.0	ND	89	70-130			
Trichloroethene (TCE)	25.7	1.0	µg/L	25.0	ND	103	70-130			
Toluene	26.6	1.0	µg/L	25.0	ND	106	70-130			
Chlorobenzene	26.3	1.0	µg/L	25.0	ND	105	70-130			
<i>Surrogate: Dibromofluoromethane</i>	<i>18.9</i>		<i>µg/L</i>	<i>20.0</i>		<i>94</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>18.7</i>		<i>µg/L</i>	<i>20.0</i>		<i>94</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>19.2</i>		<i>µg/L</i>	<i>20.0</i>		<i>96</i>	<i>70-130</i>			
<b>Matrix Spike Dup (B016719-MSD1)</b>		<b>Source: 7050915-01</b>			<b>Prepared &amp; Analyzed: 05/09/17</b>					
1,1-Dichloroethene (1,1-DCE)	21.7	1.0	µg/L	25.0	ND	87	70-130	0.3	20	
Benzene	23.0	1.0	µg/L	25.0	ND	92	70-130	3	20	
Trichloroethene (TCE)	25.6	1.0	µg/L	25.0	ND	102	70-130	0.7	20	
Toluene	26.4	1.0	µg/L	25.0	ND	106	70-130	0.6	20	
Chlorobenzene	26.5	1.0	µg/L	25.0	ND	106	70-130	0.9	20	
<i>Surrogate: Dibromofluoromethane</i>	<i>19.3</i>		<i>µg/L</i>	<i>20.0</i>		<i>96</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>19.0</i>		<i>µg/L</i>	<i>20.0</i>		<i>95</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>20.9</i>		<i>µg/L</i>	<i>20.0</i>		<i>104</i>	<i>70-130</i>			



### TPH Diesel & Motor Oil

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B016636 - EPA 3510C</b>									
<b>Blank (B016636-BLK1)</b>				Prepared & Analyzed: 03/30/17					
Diesel	ND	50	µg/L						
Motor Oil	ND	200	µg/L						
<b>LCS (B016636-BS1)</b>				Prepared & Analyzed: 03/30/17					
Diesel	2730	50	µg/L	2520		108			65-135
<b>LCS (B016636-BS2)</b>				Prepared: 05/09/17 Analyzed: 05/10/17					
Diesel	3120	50	µg/L	2520		124			65-135
<b>LCS Dup (B016636-BSD1)</b>				Prepared & Analyzed: 03/30/17					
Diesel	2940	50	µg/L	2520		117	7	30	





## Metals

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B016696 - EPA 200.7</b>										
<b>Blank (B016696-BLK1)</b>										
					Prepared: 04/28/17 Analyzed: 05/12/17					
Boron (B)	ND	0.050	mg/L							
Calcium (Ca)	ND	0.25	mg/L							
Magnesium (Mg)	ND	0.10	mg/L							
Potassium (K)	ND	0.10	mg/L							
Sodium (Na)	ND	0.10	mg/L							
<b>LCS (B016696-BS1)</b>										
					Prepared: 04/28/17 Analyzed: 05/12/17					
Boron (B)	0.493	0.050	mg/L	0.500		99	70-130			
Calcium (Ca)	0.501	0.25	mg/L	0.500		100	70-130			
Magnesium (Mg)	0.509	0.10	mg/L	0.500		102	70-130			
Potassium (K)	2.33	0.10	mg/L	2.50		93	70-130			
Sodium (Na)	0.475	0.10	mg/L	0.500		95	70-130			
<b>LCS Dup (B016696-BSD1)</b>										
					Prepared: 04/28/17 Analyzed: 05/12/17					
Boron (B)	0.493	0.050	mg/L	0.500		99	70-130	0.07	20	
Calcium (Ca)	0.485	0.25	mg/L	0.500		97	70-130	3	20	
Magnesium (Mg)	0.515	0.10	mg/L	0.500		103	70-130	1	20	
Potassium (K)	2.29	0.10	mg/L	2.50		91	70-130	2	20	
Sodium (Na)	0.454	0.10	mg/L	0.500		91	70-130	4	20	



## CAM Metals

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B016696 - EPA 200.7**

**Blank (B016696-BLK1)**

Prepared: 04/28/17 Analyzed: 05/18/17

Antimony (Sb)	ND	0.050	mg/L
Arsenic (As)	ND	0.020	mg/L
Barium (Ba)	ND	0.050	mg/L
Beryllium (Be)	ND	0.010	mg/L
Cadmium (Cd)	ND	0.010	mg/L
Chromium (Cr)	ND	0.010	mg/L
Cobalt (Co)	ND	0.050	mg/L
Copper (Cu)	ND	0.050	mg/L
Lead (Pb)	ND	0.050	mg/L
Molybdenum (Mo)	ND	0.020	mg/L
Nickel (Ni)	ND	0.050	mg/L
Selenium (Se)	ND	0.050	mg/L
Silver (Ag)	ND	0.010	mg/L
Thallium (Tl)	ND	0.050	mg/L
Vanadium (V)	ND	0.020	mg/L
Zinc (Zn)	ND	0.050	mg/L

**Matrix Spike (B016696-MS1)**

Source: 7042707-01

Prepared: 04/28/17 Analyzed: 05/18/17

Antimony (Sb)	0.559	0.050	mg/L	0.500	ND	112	70-130
Arsenic (As)	0.547	0.020	mg/L	0.500	ND	109	70-130
Barium (Ba)	0.475	0.050	mg/L	0.500	ND	95	70-130
Beryllium (Be)	0.552	0.010	mg/L	0.500	ND	110	70-130
Cadmium (Cd)	0.551	0.010	mg/L	0.500	ND	110	70-130
Chromium (Cr)	0.546	0.010	mg/L	0.500	ND	109	70-130
Cobalt (Co)	0.577	0.050	mg/L	0.500	ND	115	70-130
Copper (Cu)	0.544	0.050	mg/L	0.500	0.061	97	70-130
Lead (Pb)	0.569	0.050	mg/L	0.500	ND	114	70-130
Molybdenum (Mo)	0.545	0.020	mg/L	0.500	ND	109	70-130
Nickel (Ni)	0.558	0.050	mg/L	0.500	ND	112	70-130
Selenium (Se)	0.581	0.050	mg/L	0.500	ND	116	70-130
Silver (Ag)	0.131	0.010	mg/L	0.125	ND	105	70-130
Thallium (Tl)	0.636	0.050	mg/L	0.500	ND	127	70-130
Vanadium (V)	0.529	0.020	mg/L	0.500	ND	106	70-130
Zinc (Zn)	1.34	0.050	mg/L	0.500	0.731	122	70-130



## CAM Metals

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B016696 - EPA 200.7**

**Matrix Spike (B016696-MS2)**                      **Source: 7042707-05**                      Prepared: 04/28/17 Analyzed: 05/18/17

Antimony (Sb)	0.539	0.050	mg/L	0.500	ND	108	70-130			
Arsenic (As)	0.563	0.020	mg/L	0.500	ND	113	70-130			
Barium (Ba)	0.473	0.050	mg/L	0.500	ND	95	70-130			
Beryllium (Be)	0.546	0.010	mg/L	0.500	ND	109	70-130			
Cadmium (Cd)	0.545	0.010	mg/L	0.500	ND	109	70-130			
Chromium (Cr)	0.538	0.010	mg/L	0.500	ND	108	70-130			
Cobalt (Co)	0.568	0.050	mg/L	0.500	ND	114	70-130			
Copper (Cu)	0.703	0.050	mg/L	0.500	0.221	97	70-130			
Lead (Pb)	0.556	0.050	mg/L	0.500	ND	111	70-130			
Molybdenum (Mo)	0.539	0.020	mg/L	0.500	ND	108	70-130			
Nickel (Ni)	0.550	0.050	mg/L	0.500	ND	110	70-130			
Selenium (Se)	0.573	0.050	mg/L	0.500	ND	115	70-130			
Silver (Ag)	0.131	0.010	mg/L	0.125	ND	105	70-130			
Thallium (Tl)	0.632	0.050	mg/L	0.500	ND	126	70-130			
Vanadium (V)	0.523	0.020	mg/L	0.500	ND	105	70-130			
Zinc (Zn)	0.829	0.050	mg/L	0.500	0.259	114	70-130			



## Mercury

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B016670 - EPA 245.1 prep</b>										
<b>Blank (B016670-BLK1)</b>				Prepared: 04/17/17 Analyzed: 04/24/17						
Mercury (Hg)	ND	0.20	µg/L							
<b>LCS (B016670-BS1)</b>				Prepared: 04/17/17 Analyzed: 04/24/17						
Mercury (Hg)	7.50	0.20	µg/L	7.50		100	70-130			
<b>LCS Dup (B016670-BSD1)</b>				Prepared: 04/17/17 Analyzed: 04/24/17						
Mercury (Hg)	7.25	0.20	µg/L	7.50		97	70-130	3	20	
<b>Matrix Spike (B016670-MS1)</b>		<b>Source: 7041119-01</b>		Prepared: 04/17/17 Analyzed: 04/24/17						
Mercury (Hg)	7.75	0.20	µg/L	7.50	ND	103	70-130			
<b>Matrix Spike (B016670-MS2)</b>		<b>Source: 7041228-01</b>		Prepared: 04/17/17 Analyzed: 04/24/17						
Mercury (Hg)	7.75	0.20	µg/L	7.50	ND	103	70-130			



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### Conductivity

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B016714 - NO PREP</b>										
<b>Duplicate (B016714-DUP1)</b>										
Source: 7050809-01      Prepared & Analyzed: 05/08/17										
Conductivity	299	0.5	µS/cm		296			1	15	





## Alkalinity

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B016718 - NO PREP</b>									
<b>LCS (B016718-BS1)</b>					Prepared & Analyzed: 05/09/17				
Total Alkalinity	955	5.0	mg CaCO3/L	1000		95 80-120			
<b>Duplicate (B016718-DUP1)</b>					Source: 7050815-01      Prepared & Analyzed: 05/09/17				
Total Alkalinity	69.5	5.0	mg CaCO3/L		69.7		0.3	20	
Bicarbonate Alkalinity	69.5	5.0	mg CaCO3/L		69.7		0.3	20	
Carbonate Alkalinity	ND	5.0	mg CaCO3/L		ND			20	
Hydroxide Alkalinity	ND	5.0	mg CaCO3/L		ND			20	



## Anions

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B016704 - NO PREP</b>										
<b>Blank (B016704-BLK1)</b>										
				Prepared & Analyzed: 05/02/17						
Chloride	ND	0.50	mg/L							
Nitrate as N	ND	0.15	mg/L							
Sulfate as SO4	ND	0.50	mg/L							
<b>Matrix Spike (B016704-MS1)</b>										
				Source: 7050115-01			Prepared & Analyzed: 05/02/17			
Chloride	11.0	0.50	mg/L	4.00	6.71	108	80-120			
Nitrate as N	2.01	0.15	mg/L	1.81	0.316	94	80-120			
Sulfate as SO4	9.42	0.50	mg/L	8.00	2.00	93	80-120			
<b>Matrix Spike (B016704-MS2)</b>										
				Source: 7050206-01			Prepared & Analyzed: 05/02/17			
Chloride	10.6	0.50	mg/L	4.00	6.45	104	80-120			
Nitrate as N	1.70	0.15	mg/L	1.81	ND	94	80-120			
Sulfate as SO4	10.1	0.50	mg/L	8.00	2.53	95	80-120			



### Total Dissolved Solids

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B016720 - NO PREP</b>										
<b>Blank (B016720-BLK1)</b>										
					Prepared & Analyzed: 05/10/17					
Total Dissolved Solids	ND	10	mg/L							
<b>Duplicate (B016720-DUP1)</b>										
		Source: 7050809-01			Prepared & Analyzed: 05/10/17					
Total Dissolved Solids	208	10	mg/L		198			5	10	



## Notes and Definitions

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RDL	Reporting Detection Limit
ND	Analyte NOT DETECTED at or above the reporting detection limit (RDL)
RPD	Relative Percent Difference
NR	Not Reported



**Analytical Sciences**  
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 110 Liberty Street, Petaluma, CA 94952  
 (707) 769-3128  
 Fax (707) 769-8093

# CHAIN OF CUSTODY

Lab Project Number: 7050915  
 Client Project Name: 8467 PATTERSON PASS RD  
 Client Project Number: 538.0915

## CLIENT INFORMATION

Company Name: **Environmental Geology Services**  
 Address: **6169 Amie Drive**  
**Windsor, CA 95492**  
 Contact: **David Bush**  
 Phone #: **(707) 528-0810**  
 Fax #: **(707) 528-0810**  
 e-mail: **dbush@egsconsultants.com**

Geotracker EDF:  Y  N  
 Global ID: \_\_\_\_\_

Cooler Temperature  
1009 °C  
 Page 1 of 1

**TURNAROUND TIME (check one)**

Same Day \_\_\_\_\_  
 24 Hours \_\_\_\_\_  
 48 Hours \_\_\_\_\_  
 5 Days \_\_\_\_\_  
 Normal

## ANALYSIS

Item	Client Sample ID	Date Sampled	Time	Matrix	# Cont.	Presv. Y/N	TPH/GAS/BTEX EPA 8015/8021	TPH Diesel/ Motor Oil EPA 8015M	Volatile Hydrocarbons EPA 8260B (Full List)	BTEX & Oxygenates + PB Scavengers EPA 8260B	Oxygenated Fuel Additives EPA 8260B	Chlorinated Solvents EPA 8010 / EPA 8260B	Semi-Volatile Hydrocarbons EPA 8270C	TRPH / TOG SM 5520F / EPA 418.1	Pesticides / PCBs EPA 8081 / 8141 / 8082	Cam 17 Metals / Semi-Metals	Total Lead	EC, TDS	Cl, B, Ca, Mg, K, Na, SO4	Alk, NITRATE AS N	Comments	Lab Sample #
1	MW-1	5/9/17	9:51	Hot	6	Y/N	X	X	X				X			X		X			7050915+01	
2	MW-2	5/9/17	10:50		4																102	
3	MW-3	5/9/17	(14)		4																103	
4																						
5																						
6																						
7																						
8																						
9																						
10																						

## SIGNATURES

Retinquished By: \_\_\_\_\_  
 Signature \_\_\_\_\_

Sampled By: DAVID BUSH  
 Date: 5/9/17 Time: 1335

Received By: \_\_\_\_\_  
 Signature Paul Hermon  
 Date: 5/9/17 Time: 1335





## Analytical Report

**Client:** Analytical Sciences  
**Date Received:** 5/10/17 14:20  
**Date Prepared:** 5/11/17  
**Project:** 7050915; 8467 Patterson Pass Rd.

**WorkOrder:** 1705446  
**Extraction Method:** E625  
**Analytical Method:** SW8270C  
**Unit:** µg/L

### Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-1	1705446-001A	Water	05/09/2017 09:51	GC21	138678
Analytes	Result	RL	DF	Date Analyzed	
Acenaphthene	ND	2.0	1	05/14/2017 10:23	
Acenaphthylene	ND	2.0	1	05/14/2017 10:23	
Acetochlor	ND	2.0	1	05/14/2017 10:23	
Anthracene	ND	2.0	1	05/14/2017 10:23	
Benzidine	ND	10	1	05/14/2017 10:23	
Benzo (a) anthracene	ND	2.0	1	05/14/2017 10:23	
Benzo (a) pyrene	ND	2.0	1	05/14/2017 10:23	
Benzo (b) fluoranthene	ND	2.0	1	05/14/2017 10:23	
Benzo (g,h,i) perylene	ND	2.0	1	05/14/2017 10:23	
Benzo (k) fluoranthene	ND	2.0	1	05/14/2017 10:23	
Benzyl Alcohol	ND	10	1	05/14/2017 10:23	
1,1-Biphenyl	ND	2.0	1	05/14/2017 10:23	
Bis (2-chloroethoxy) Methane	ND	2.0	1	05/14/2017 10:23	
Bis (2-chloroethyl) Ether	ND	2.0	1	05/14/2017 10:23	
Bis (2-chloroisopropyl) Ether	ND	2.0	1	05/14/2017 10:23	
Bis (2-ethylhexyl) Adipate	ND	2.0	1	05/14/2017 10:23	
Bis (2-ethylhexyl) Phthalate	ND	4.1	1	05/14/2017 10:23	
4-Bromophenyl Phenyl Ether	ND	10	1	05/14/2017 10:23	
Butylbenzyl Phthalate	ND	2.0	1	05/14/2017 10:23	
4-Chloroaniline	ND	4.1	1	05/14/2017 10:23	
4-Chloro-3-methylphenol	ND	10	1	05/14/2017 10:23	
2-Chloronaphthalene	ND	2.0	1	05/14/2017 10:23	
2-Chlorophenol	ND	2.0	1	05/14/2017 10:23	
4-Chlorophenyl Phenyl Ether	ND	2.0	1	05/14/2017 10:23	
Chrysene	ND	2.0	1	05/14/2017 10:23	
Dibenzo (a,h) anthracene	ND	2.0	1	05/14/2017 10:23	
Dibenzofuran	ND	2.0	1	05/14/2017 10:23	
Di-n-butyl Phthalate	ND	2.0	1	05/14/2017 10:23	
1,2-Dichlorobenzene	ND	2.0	1	05/14/2017 10:23	
1,3-Dichlorobenzene	ND	2.0	1	05/14/2017 10:23	
1,4-Dichlorobenzene	ND	2.0	1	05/14/2017 10:23	
3,3-Dichlorobenzidine	ND	4.1	1	05/14/2017 10:23	
2,4-Dichlorophenol	ND	2.0	1	05/14/2017 10:23	
Diethyl Phthalate	ND	2.0	1	05/14/2017 10:23	
2,4-Dimethylphenol	ND	2.0	1	05/14/2017 10:23	
Dimethyl Phthalate	ND	2.0	1	05/14/2017 10:23	
4,6-Dinitro-2-methylphenol	ND	10	1	05/14/2017 10:23	

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NELAP 4033ORELAP

Angela Rydelius, Lab Manager





## Analytical Report

**Client:** Analytical Sciences  
**Date Received:** 5/10/17 14:20  
**Date Prepared:** 5/11/17  
**Project:** 7050915; 8467 Patterson Pass Rd.

**WorkOrder:** 1705446  
**Extraction Method:** E625  
**Analytical Method:** SW8270C  
**Unit:** µg/L

### Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-1	1705446-001A	Water	05/09/2017 09:51	GC21	138678
Analytes	Result	RL	DF	Date Analyzed	
2,4-Dinitrophenol	ND	25	1	05/14/2017 10:23	
2,4-Dinitrotoluene	ND	2.0	1	05/14/2017 10:23	
2,6-Dinitrotoluene	ND	2.0	1	05/14/2017 10:23	
Di-n-octyl Phthalate	ND	2.0	1	05/14/2017 10:23	
1,2-Diphenylhydrazine	ND	2.0	1	05/14/2017 10:23	
Fluoranthene	ND	2.0	1	05/14/2017 10:23	
Fluorene	ND	2.0	1	05/14/2017 10:23	
Hexachlorobenzene	ND	2.0	1	05/14/2017 10:23	
Hexachlorobutadiene	ND	2.0	1	05/14/2017 10:23	
Hexachlorocyclopentadiene	ND	10	1	05/14/2017 10:23	
Hexachloroethane	ND	2.0	1	05/14/2017 10:23	
Indeno (1,2,3-cd) pyrene	ND	2.0	1	05/14/2017 10:23	
Isophorone	ND	2.0	1	05/14/2017 10:23	
2-Methylnaphthalene	ND	2.0	1	05/14/2017 10:23	
2-Methylphenol (o-Cresol)	ND	2.0	1	05/14/2017 10:23	
3 & 4-Methylphenol (m,p-Cresol)	ND	2.0	1	05/14/2017 10:23	
Naphthalene	ND	2.0	1	05/14/2017 10:23	
2-Nitroaniline	ND	10	1	05/14/2017 10:23	
3-Nitroaniline	ND	10	1	05/14/2017 10:23	
4-Nitroaniline	ND	10	1	05/14/2017 10:23	
Nitrobenzene	ND	2.0	1	05/14/2017 10:23	
2-Nitrophenol	ND	10	1	05/14/2017 10:23	
4-Nitrophenol	ND	10	1	05/14/2017 10:23	
N-Nitrosodiphenylamine	ND	2.0	1	05/14/2017 10:23	
N-Nitrosodi-n-propylamine	ND	2.0	1	05/14/2017 10:23	
Pentachlorophenol	ND	10	1	05/14/2017 10:23	
Phenanthrene	ND	2.0	1	05/14/2017 10:23	
Phenol	ND	2.0	1	05/14/2017 10:23	
Pyrene	ND	2.0	1	05/14/2017 10:23	
Pyridine	ND	2.0	1	05/14/2017 10:23	
1,2,4-Trichlorobenzene	ND	2.0	1	05/14/2017 10:23	
2,4,5-Trichlorophenol	ND	2.0	1	05/14/2017 10:23	
2,4,6-Trichlorophenol	ND	2.0	1	05/14/2017 10:23	

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NELAP 4033ORELAP

Angela Rydelius, Lab Manager



## Analytical Report

**Client:** Analytical Sciences  
**Date Received:** 5/10/17 14:20  
**Date Prepared:** 5/11/17  
**Project:** 7050915; 8467 Patterson Pass Rd.

**WorkOrder:** 1705446  
**Extraction Method:** E625  
**Analytical Method:** SW8270C  
**Unit:** µg/L

### Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-1	1705446-001A	Water	05/09/2017 09:51	GC21	138678

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	50	8-130		05/14/2017 10:23
Phenol-d5	37	5-130		05/14/2017 10:23
Nitrobenzene-d5	76	20-140		05/14/2017 10:23
2-Fluorobiphenyl	79	40-140		05/14/2017 10:23
2,4,6-Tribromophenol	76	16-180		05/14/2017 10:23
4-Terphenyl-d14	93	40-170		05/14/2017 10:23

Analyst(s): HD

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NELAP 4033ORELAP

Angela Rydelius, Lab Manager



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http://www.mccampbell.com / E-mail: main@mccampbell.com

# Analytical Report

**Client:** Analytical Sciences  
**Date Received:** 5/10/17 14:20  
**Date Prepared:** 5/11/17  
**Project:** 7050915; 8467 Patterson Pass Rd.

**WorkOrder:** 1705446  
**Extraction Method:** E625  
**Analytical Method:** SW8270C  
**Unit:** µg/L

## Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-2	1705446-002A	Water	05/09/2017 10:50	GC21	138678

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	2.1	1	05/14/2017 11:18
Acenaphthylene	ND	2.1	1	05/14/2017 11:18
Acetochlor	ND	2.1	1	05/14/2017 11:18
Anthracene	ND	2.1	1	05/14/2017 11:18
Benzydine	ND	10	1	05/14/2017 11:18
Benzo (a) anthracene	ND	2.1	1	05/14/2017 11:18
Benzo (a) pyrene	ND	2.1	1	05/14/2017 11:18
Benzo (b) fluoranthene	ND	2.1	1	05/14/2017 11:18
Benzo (g,h,i) perylene	ND	2.1	1	05/14/2017 11:18
Benzo (k) fluoranthene	ND	2.1	1	05/14/2017 11:18
Benzyl Alcohol	ND	10	1	05/14/2017 11:18
1,1-Biphenyl	ND	2.1	1	05/14/2017 11:18
Bis (2-chloroethoxy) Methane	ND	2.1	1	05/14/2017 11:18
Bis (2-chloroethyl) Ether	ND	2.1	1	05/14/2017 11:18
Bis (2-chloroisopropyl) Ether	ND	2.1	1	05/14/2017 11:18
Bis (2-ethylhexyl) Adipate	ND	2.1	1	05/14/2017 11:18
Bis (2-ethylhexyl) Phthalate	ND	4.2	1	05/14/2017 11:18
4-Bromophenyl Phenyl Ether	ND	10	1	05/14/2017 11:18
Butylbenzyl Phthalate	ND	2.1	1	05/14/2017 11:18
4-Chloroaniline	ND	4.2	1	05/14/2017 11:18
4-Chloro-3-methylphenol	ND	10	1	05/14/2017 11:18
2-Chloronaphthalene	ND	2.1	1	05/14/2017 11:18
2-Chlorophenol	ND	2.1	1	05/14/2017 11:18
4-Chlorophenyl Phenyl Ether	ND	2.1	1	05/14/2017 11:18
Chrysene	ND	2.1	1	05/14/2017 11:18
Dibenzo (a,h) anthracene	ND	2.1	1	05/14/2017 11:18
Dibenzofuran	ND	2.1	1	05/14/2017 11:18
Di-n-butyl Phthalate	ND	2.1	1	05/14/2017 11:18
1,2-Dichlorobenzene	ND	2.1	1	05/14/2017 11:18
1,3-Dichlorobenzene	ND	2.1	1	05/14/2017 11:18
1,4-Dichlorobenzene	ND	2.1	1	05/14/2017 11:18
3,3-Dichlorobenzidine	ND	4.2	1	05/14/2017 11:18
2,4-Dichlorophenol	ND	2.1	1	05/14/2017 11:18
Diethyl Phthalate	ND	2.1	1	05/14/2017 11:18
2,4-Dimethylphenol	ND	2.1	1	05/14/2017 11:18
Dimethyl Phthalate	ND	2.1	1	05/14/2017 11:18
4,6-Dinitro-2-methylphenol	ND	10	1	05/14/2017 11:18

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NELAP 4033 ORELAP

Angela Rydelius, Lab Manager



## Analytical Report

**Client:** Analytical Sciences  
**Date Received:** 5/10/17 14:20  
**Date Prepared:** 5/11/17  
**Project:** 7050915; 8467 Patterson Pass Rd.

**WorkOrder:** 1705446  
**Extraction Method:** E625  
**Analytical Method:** SW8270C  
**Unit:** µg/L

### Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-2	1705446-002A	Water	05/09/2017 10:50	GC21	138678
Analytes	Result	RL	DF	Date Analyzed	
2,4-Dinitrophenol	ND	26	1	05/14/2017 11:18	
2,4-Dinitrotoluene	ND	2.1	1	05/14/2017 11:18	
2,6-Dinitrotoluene	ND	2.1	1	05/14/2017 11:18	
Di-n-octyl Phthalate	ND	2.1	1	05/14/2017 11:18	
1,2-Diphenylhydrazine	ND	2.1	1	05/14/2017 11:18	
Fluoranthene	ND	2.1	1	05/14/2017 11:18	
Fluorene	ND	2.1	1	05/14/2017 11:18	
Hexachlorobenzene	ND	2.1	1	05/14/2017 11:18	
Hexachlorobutadiene	ND	2.1	1	05/14/2017 11:18	
Hexachlorocyclopentadiene	ND	10	1	05/14/2017 11:18	
Hexachloroethane	ND	2.1	1	05/14/2017 11:18	
Indeno (1,2,3-cd) pyrene	ND	2.1	1	05/14/2017 11:18	
Isophorone	ND	2.1	1	05/14/2017 11:18	
2-Methylnaphthalene	ND	2.1	1	05/14/2017 11:18	
2-Methylphenol (o-Cresol)	ND	2.1	1	05/14/2017 11:18	
3 & 4-Methylphenol (m,p-Cresol)	ND	2.1	1	05/14/2017 11:18	
Naphthalene	ND	2.1	1	05/14/2017 11:18	
2-Nitroaniline	ND	10	1	05/14/2017 11:18	
3-Nitroaniline	ND	10	1	05/14/2017 11:18	
4-Nitroaniline	ND	10	1	05/14/2017 11:18	
Nitrobenzene	ND	2.1	1	05/14/2017 11:18	
2-Nitrophenol	ND	10	1	05/14/2017 11:18	
4-Nitrophenol	ND	10	1	05/14/2017 11:18	
N-Nitrosodiphenylamine	ND	2.1	1	05/14/2017 11:18	
N-Nitrosodi-n-propylamine	ND	2.1	1	05/14/2017 11:18	
Pentachlorophenol	ND	10	1	05/14/2017 11:18	
Phenanthrene	ND	2.1	1	05/14/2017 11:18	
Phenol	ND	2.1	1	05/14/2017 11:18	
Pyrene	ND	2.1	1	05/14/2017 11:18	
Pyridine	ND	2.1	1	05/14/2017 11:18	
1,2,4-Trichlorobenzene	ND	2.1	1	05/14/2017 11:18	
2,4,5-Trichlorophenol	ND	2.1	1	05/14/2017 11:18	
2,4,6-Trichlorophenol	ND	2.1	1	05/14/2017 11:18	

(Cont.)

NELAP 4033ORELAP

Angela Rydelius, Lab Manager





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# Analytical Report

**Client:** Analytical Sciences  
**Date Received:** 5/10/17 14:20  
**Date Prepared:** 5/11/17  
**Project:** 7050915; 8467 Patterson Pass Rd.

**WorkOrder:** 1705446  
**Extraction Method:** E625  
**Analytical Method:** SW8270C  
**Unit:** µg/L

## Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
MW-2	1705446-002A	Water	05/09/2017 10:50	GC21	138678

Analytes	Result	RL	DF	Date Analyzed
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>		
2-Fluorophenol	47	8-130		05/14/2017 11:18
Phenol-d5	39	5-130		05/14/2017 11:18
Nitrobenzene-d5	70	20-140		05/14/2017 11:18
2-Fluorobiphenyl	77	40-140		05/14/2017 11:18
2,4,6-Tribromophenol	82	16-180		05/14/2017 11:18
4-Terphenyl-d14	99	40-170		05/14/2017 11:18

Analyst(s): HD

(Cont.)

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

