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September 14, 2017

Ms. Dilan Roe
ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Status Report Regarding 2013 Diesel Release
1800 ½ Powell Street, Emeryville, California, APN 049 -1495-001-12
Case No. RO0000254; GeoTracker Global ID: T0600101231

Dear Ms. Roe:

Au Energy, LLC (Au Energy, the *responsible party*), is submitting the enclosed report summarizing the events and mitigation efforts associated the former diesel line leak as requested. This report was prepared by Bureau Veritas North America, Inc. (BVNA) on behalf of AU Energy, LLC.

I declare, under penalty of perjury, that the information contained in the attached enclosed Work Plan is true and correct to the best of my knowledge. If you have any comments or questions regarding this report, please do not hesitate to contact Mark Williams or Don Ashton of BVNA. Their contact information is provided in the attached report.

Sincerely,

Sunny Goyal
Au Energy Director

September 15, 2017

Mr. Sunny Goyal
AU ENERGY LLC
41805 Albrae Street, 2nd Floor
Fremont, California 94538

Project No. 33113-013181.00

Subject: Status Report Regarding 2013 Diesel Release
1800 ½ Powell Street
Emeryville, Alameda County, California
Case No. RO0000254; GeoTracker Global ID: T0600101231

Dear Mr. Goyal:

Bureau Veritas North America, Inc. is pleased to present this *Status Report Regarding 2013 Diesel Release* at the above-referenced property.

This report also specifically addresses an information request the Alameda County Department of Environmental Health (ACDEH) in an email by Ms. Anne Jurek, Professional Technical Specialist II (Geology), dated August 8, 2016 to Au Energy LLC (Au Energy) and Shell Oil Products US. This status report also addresses the informational requests to Au Energy as noted below:

1. A complete timeline and discussion of investigation and remediation.

   Response: The timing of events and details of the response actions for the diesel line release and mitigation efforts are included in Section 4.0. Appendix A includes the unauthorized release form, Appendix D includes the disposal documentation of the 5,000 gallons of liquid which was removed from the tank pit observation wells immediately following the release. Appendix H contains the report of the soils removal and remediation work conducted in the vicinity of the diesel line release, and Appendix I includes the disposal documentation of the excavated soils from both the diesel line area and former underground storage tanks (USTs) pit. A photograph log is included which contains photographs of the diesel line break, picture of the fill materials, and base of the diesel line excavation.

2. Figures showing boring and sampling locations, which includes the locations of the current USTs that were installed in May and June 2014 in relation to the former USTs.

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Response: Figure 2 depicts the site layout showing the configuration of the former USTs in relation the to the current features of the Site. Figure 3 shows the boring locations BV-1 through BV-4, and diesel line release point followed by a depiction of the extent of excavated soils. Borings BV-1 through BV-4 were installed to collect soil samples in order to pre-profile the anticipated soil waste for disposal which was to be created during the proposed redevelopment excavation work.

3. Tables of all soil analytical results, including those collected during due diligence when the property was purchased to establish baseline conditions. Of note, a table and a laboratory report of the analytical results for samples collected at borings BV-1 through BV-4 that were advanced on September 30, 2013, are not in our case file.

   Response: Table 1 presents a summary of the analytical data for the soil samples which were collected as part of the pre-profiling activities. Four soil borings (BV-1 through BV-4) were advanced, boring BV-4 was abandoned and no soil samples were collected from this borehole. Appendix C includes copies of the boring logs followed by the laboratory analytical data for the soil samples collected and analyzed from these boreholes.

4. A table of separate phase hydrocarbon (SPH) measurements that were collected using an oil/water interface meter from the UST backfill observation wells in October 2013.

   Response: Section 4.1.3 presents a summary of the response actions to evaluate the changes in levels of liquid present in the tank pit observation wells. BVNA observed the levels in tank pit observation wells S-1/A, S-2/E, S-3/B, S-4/C and S-11/D. Only two backfill observation wells (S-2/E, S-3/B) had measurable SPH, and no SPH was not found in the other UST backfill observation wells. A table of data from for each well is included in this section. These levels were measured at the time Clean Harbors pumped out approximately 5,000-gallons of water/SPH mixture. Appendix D contains the disposal documentation for this liquid waste.

5. Waste manifests for the 5,000 gallons of water/SPH mixture removed from the UST backfill area for offsite disposal.

   Response: Appendix D contains the disposal documentation for this liquid, which was removed and disposed of an approved waste treatment facility. Section 4.1.3 provides details regarding the response action.

6. A table of groundwater monitoring measurements for SPH taken on October 2, 3, 4, 7, 9, 15 and 23, 2013, and weekly groundwater monitoring of measureable SPH for monitoring wells S-8, S-10, and S-13. This work is discussed in “Work Plan for Subsurface Investigation at Shell-Branded Gasoline Station,” dated October 31, 2013, prepared by Bureau Veritas North America, Inc. (BVNA), but there are no associated tables.

   Response: Section 4.1.3 summarizes the monitoring activities for the groundwater monitoring wells outside the area of the UST backfill. A table of the levels recorded is included in this section for groundwater monitoring wells S-9, S-10 and S-13, which are located downgradient of the damaged product line, for measurable SPH on October 2nd, 3rd, 4th, 7th, 9th, 15th and 23rd, 2013. Measurable

SPH was not detected in these wells. Tables of this collected data are included in the Section 4.1.3 of this report.

7. Boring logs for all borings advanced.

   Response: Boring Logs for the borings BV-1 through BV-4 are included separately as Appendix C. Boring logs collected from the geotechnical investigation are included as Appendix B in the report. A cross section of the Site is included as Figure 5, which depicts the location of areas excavated and remaining fill at the Site.

8. Cross-sections that show borings, wells, any excavation, fill, etc.

   Response: Figure 3 shows the boring locations and lateral extent of the diesel line and former UST excavation. Figure 4 depicts the Site plan with the cross section line, and Figure 5 depicts the vertical cross section of the fill materials in relation to the diesel line release point and former UST excavations.

9. A discussion of the extent of diesel contamination from the 2013 spill, including a figure delineating the extent of the plume from the remaining diesel.

   Response: Section 5.2 includes a discussion of the soils which were excavated from the diesel line trench and release area. Section 5.2.3 summarizes the confirmation sampling analytical results. At the completion of the excavation, ACDEH was present during the final sampling event, and no further excavation was deemed necessary. The base of the diesel line excavation extended into the landfill materials which included extensive amounts of roofing tar, shingles and other dense debris. The southern side of the excavation was bounded by the PG&E line and the north side was bounded by the UST excavation. Appendix H includes the report detailing the remediation work in the area of the diesel line release.

10. A discussion of how much residual TPH is due to the 2013 release as compared to historical industrial waste debris at the site.

    Response: Sections 5.2 details the mitigation efforts associated with the removal of soils from the area of the diesel line release and Appendix H includes the report the was filed. Section 6.0 includes data from the most recent groundwater well sampling event, which showed no increase in diesel concentrations in any of the sampled groundwater wells following the 2013 event. Groundwater monitoring data following the 2013 diesel release indicate that petroleum hydrocarbon concentrations continue to decrease over time. During the redevelopment work, a total of 1,383 tons of soil and fill materials were excavated and disposed of at Forward Landfill (Section 5.2.2). This excavation work removed soils and historical landfill materials beyond the point of diesel fuel impact from the 2013 diesel line release. Figure 5 shows that there remains a significant amount of landfill materials that remain at the site, which contain a broad range of residual petroleum hydrocarbons along with gasoline range petroleum hydrocarbons that remain from the historical gasoline release in 1982.

    Based on the groundwater data which continue to show a decline in TPH-d concentrations with no measurable increase in concentrations after the 2013 line break, soil confirmation sampling results in

line with the existing fill TPH-d concentrations in the diesel line excavation, and extensive removal of fill materials outside of the original UST tank hold, it is concluded that the diesel released has been effectively removed through the initial pumping activities and extensive over-excavation of the diesel line break area and former UST pit location.

11. A discussion comparing current site conditions to LTCP criteria.

    Response: Section 7.2 contains the low threat closure evaluation related to the diesel line release. On behalf of Au Energy, BVNA recommends that the Site environmental case associated with the 2013 diesel release by closed under LTCP.

If you have any questions or comments regarding the information provided herein, please do not hesitate to contact me.

Sincerely,

Mark Williams
Senior Project Manager
Health, Safety and Environmental Services
(925) 426-2676
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Enclosure

Status Report Regarding 2013 Diesel Release

Commercial Property
1800 ½ Powell Street
Emeryville, Alameda County, California

September 15, 2017
Project No. 33113-013181.00

Prepared for
AU ENERGY
41805 Albrae Street, 2nd Floor
Fremont, California

BUREAU VERITAS

For the benefit of business and people

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CONTENTS

Section **Page**

1.0 INTRODUCTION 1

2.0 SITE DESCRIPTION AND OVERVIEW 1

3.0 SITE HISTORY 2

3.1 SOURCES OF FILL MATERIALS 2
3.2 GEOTECHNICAL INVESTIGATION OF FILL MATERIALS 2
3.3 BUILDING HISTORY 3
3.4 SHELL GASOLINE RELEASE HISTORY 3

4.0 2013 DIESEL LINE RELEASE HISTORY 5

4.1 TIMELINE OF LINE DAMAGE AND MITIGATION EFFORTS 5
4.1.1 September 30, 2013 5
4.1.2 October 1, 2013 6
4.1.3 October 2, 2013 6
4.1.4 October 3, 2013 8
4.1.5 October 4, 2013 9
4.2 WELL INSTALLATION TIMELINE 9
4.2.1 January 2012 9
4.2.2 October 31, 2013 10
4.2.3 Down Gradient Well Installation – California Coastal Commission 10

5.0 DIESEL IMPACTED SOILS REMEDIATION 11

5.1 MAY 15, 2014 INTERIM CLEANUP WORKPLAN 11
5.2 JUNE 6, 2014 WORKPLAN TO WIDEN THE UST AND TRENCH EXCAVATIONS 11
5.3 AUGUST 11, 2014 UNDERGROUND STORAGE TANK REMOVAL REPORT 12
5.4 DIESEL EXCAVATION GRADING PERMIT AND BACKFILL LETTER 12
5.5 INTERIM REMOVAL ACTION REPORT 12
5.5.1 Background 12
5.5.2 Excavation Activities 13
5.5.3 Diesel Line Excavation Results 15

6.0 GROUNWATER REPORT – JULY 2017 16

7.0 DISCUSSION AND RECOMMENDATIONS 18

7.1 RESIDUAL DIESEL FROM 2013 18
7.2 LOW THREAT CLOSURE EVALUATION 19
7.2.1 General Criteria 19
7.2.2 Media-Specific Criteria 20
7.2.3 Petroleum Vapor Intrusion to Indoor Air 22
7.2.4 Direct Contact and Outdoor Air Exposure 22

CONTENTS

(Continued)

8.0 CONCLUSIONS 22

9.0 SIGNATURES 23

Photographs

Tables

1 Summary of Soil Analytical Results – September 30, 2013 BV-1 through BV-3

Figures

1 Site Location Map
2 Current Site Layout with Historical Features
3 Excavation Map
4 Site Plan Showing Cross Section Location
5 Generalize Cross Section

Appendices

A Unauthorized Release Form
B Geotechnical Report of Fill Materials
C Boring Logs for BV-1 through BV-4 and Soil Analytical Data
D 2013 Manifest Documentation - 5,000 Gallons of Diesel Product Recovery Liquid
E Analytical Data for CS-1 and CS-2
F 2014 UST Removal Report
G Diesel Excavation Grading Permit and Backfill Letter
H Interim Removal Action Report
I Soil Disposal Documentation
J Work Plan for Widening the Existing Excavation at Shell-Branded Gasoline Station to Accommodate New USTs

1.0 INTRODUCTION

Bureau Veritas North America, Inc. (BVNA) is pleased to present this *Status Report Regarding 2013 Diesel Release* for the commercial property at 1800 ½ Powell Street, Emeryville, Alameda County, California (the "Site," Figure 1). This summary report was requested by the Alameda County Department of Environmental Health (ACDEH) in their July 17, 2017 letter entitled *Meeting Follow-up for Fuel Leak Case No. RO0000254 and GeoTracker Global ID T0600101231, Shell #13-5266, 1800 Powell Street, Emeryville, CA 94608,* and an email correspondence dated August 8, 2016.

The purpose of this status report is to summarize the activities and site status with respect to a diesel fuel release from a damaged pipeline that occurred in 2013, and the subsequent remediation and site assessment following that event. This report provides a summary of a 1982 gasoline releases to the subsurface, that is unrelated to the diesel line rupture. This report includes a low threat closure evaluation pertaining to the 2013 diesel line release and subsequent remedial actions.

2.0 SITE DESCRIPTION AND OVERVIEW

The approximately 0.511-acre Site is currently developed with a gasoline station, which includes three fuel dispenser islands under a canopy structure. Figure 2 depicts the former station and underground storage tank (UST) configuration with an overlay of the current station layout and UST configuration. The site structures include a station building with food mart, car wash building, customer restrooms; and a small trash enclosure. With the exception of landscaping along the borders, the remaining open areas are covered by concrete pavement. No vehicle servicing currently takes place at the facility.

In 2013, Au Energy commenced on a site-wide redevelopment project of the property which would eventually involve the removal of the USTs, piping, dispensers and all former buildings. The redevelopment included the continued use of the Site as an operational vehicle fueling station with a car wash and mini-mart store. Due to the nature of the historical landfill materials that exist below the site with known historical contamination, and an historical gasoline release that impacted the subsurface, Au Energy obtained BVNA to pre-profile the landfill waste materials and soil for proper disposal at a licensed landfill. Since the station was in use at that time, it was decided that the soils could be profiled insitu prior to excavation.

Four borings were installed (BV-1 through BV-4) in September, 2013. In an attempt to clear a soil boring location using a hand probe, the diesel supply line to the south dispenser island was damaged. Since this line was not being used at the time of the soil boring investigation, the damage was not discovered until a customer attempted to use a diesel dispenser. Use of the dispenser resulted in a diesel release and alarm. Testing of the alarm and fuel dispensing systems resulted in additional diesel fuel being released. The diesel fueling system was shut down. A repair crew was called in and the line was excavated and repaired. An unauthorized release form was filed as required. The released diesel fuel flowed through the pipeline trench into the tank backfill pit. Upon discovery of fuel product in two tank pits wells, an interim action was conducted by Clean Harbors by pumping groundwater and separate-phase hydrocarbons (SPH) from the tank pit wells. The fuel impacted groundwater was disposed of offsite at a licensed facility. Once the station was under redevelopment, the soils surrounding the former diesel

release point were excavated along with impacted soils in and adjoining the UST pit. To date, downgradient groundwater monitoring wells have not shown any appreciable increase in petroleum hydrocarbons following the 2013 diesel fuel release event. Petroleum hydrocarbon concentrations in groundwater samples continue to show declining concentrations over time.

This status report summarizes the timeline of these events and the subsequent remediation and mitigation efforts following this initial incident.

3.0 SITE HISTORY

3.1 SOURCES OF FILL MATERIALS

The Site is located on fill consisting of soil, industrial waste, and construction debris. Beginning in 1884, Paraffine Company operated an industrial complex on the Emeryville waterfront and filled areas along the shoreline (including the area of the Site) through 1969. Products manufactured by Paraffine included linoleum and other hard-surfaced floor coverings, roofing and building materials, paints, varnishes, lacquers, and enamels. The Paraffine facility was closed in the 1960s.

Beginning in the 1930s, non-engineered fill, consisting of debris and industrial waste, was placed to construct the peninsula that the Site is located on. The thickness of the fill ranges from 16 to over 20 feet, and overlies young Bay Muds. Landfill material has been reported to include concrete and wood debris, roofing shingles, tar paper, linoleum, asbestos, asphalt, and roofing scraps/debris. During the UST and station upgrade activities conducted in 2014 and 2015, much of this historical fill material was encountered. Photograph 3 presents a view of the typical fill materials encountered at the Site.

3.2 GEOTECHNICAL INVESTIGATION OF FILL MATERIALS

In anticipation of the redevelopment of the property and station upgrades, BAGG Engineers conducted a geotechnical investigation of the Site on September 5, 2013 and included their findings in the report entitled *Geotechnical Engineering Investigation, Proposed Shell Gas Station, Fueling Canopy, Convenience Store and Car Wash,* dated December 6, 2013. The purpose of this investigation was to determine the suitability of the fill materials for supporting the proposed new buildings and canopy footings.

The purpose of this study was to evaluate the suitability of the soils for the construction of a new convenience store building, car wash, and canopy structure. Three exploratory borings: 1 to 50 feet below ground surface (bgs), and the other two to 25 feet bgs were drilled using a truck-mounted drilling rig equipped with 8-inch diameter, hollow-stem augers. The soil borings drilled at the site indicated the presence of 3 to 4 feet of soil consisting of a random mixtures of clay, silt, sand, and gravel (import fill) over approximately 12 feet of debris laden fill material consisting of roofing shingles, rubber, glass, and metal debris mixed with clayey soil. This fill material was underlain by approximately 3 feet of gravelly sand at the location of Boring B-1, 4.5 feet of sand at B-3, and 5.5 feet of fat clay followed by clayey sand at B-2. Boring B-1 revealed the presence of grayish black, soft fat clay between 20 to 28.5 feet and olive gray, very stiff lean/fat clay to 33.5 feet. Very stiff to medium dense gravelly clay to clayey gravel was encountered to a depth of 46.5 feet, which was underlain by very stiff fat clay to the maximum depth of

drilling. The fill material between 3 to 16 feet contained significant amounts of debris and was stiff to medium dense.

Recommendations from this report that were incorporated into the final building construction specifications included the placement of a 15-mil thick vapor barrier below the concrete mat slab, over 4-inch thick layer of compacted baserock (conforming to Caltrans Class 2 baserock specifications), over compacted subgradesoil .

This report which includes boring logs is included as Appendix B. Borehole lithologic data was also used to create the cross section depicted on Figure 5.

3.3 BUILDING HISTORY

From at least 1939 the Site was covered by waters of the San Francisco Bay. By the late 1950s, the area of the Site had been filled in with soil, industrial waste, and construction debris by the Paraffine Company that operated an industrial complex along the Emeryville waterfront from around 1884 until the late 1960s. The Site remained vacant and appeared to be used for dumping until around 1970, when it was developed with a gasoline station. The original gas station included a building on the northern portion of the subject property, with a canopy and four dispensers on the southern portion. The original tank pit located at the northeastern corner of the site contained one 10,000-gallon and one 8,000-gallon UST. A 550-gallon waste oil tank was also located on the subject property. Based on the presence of the waste oil tank, vehicle service apparently were conducted at the Site from 1970 until sometime before 1988, when the subject property was re-developed with nine fuel dispensers, a car wash, and an attendant's kiosk. In 1980, three 10,000-gallon USTs were installed at the southeastern corner of the subject property; a fourth 10,000- gallon UST was installed in 1984. The dispensers were upgraded in 2004.

In March 2010, Equilon Enterprises LLC (Shell) sold the property to Au Energy LLC. Station upgrades occurred that included the removal of the former USTs, dispenser islands, and buildings between 2013 and 2015. The Site continues to operate as a vehicle fueling station serving Shell-branded fuels under the new ownership.

3.4 SHELL GASOLINE RELEASE HISTORY

In September 1982, a leak was reported from a fiberglass product line, in which approximately 3,200 gallons of super unleaded gasoline was reportedly released. At the time of the release, the owner and responsible party was identified as owner of the subject property, Equilon Enterprises LLC. In 1982, in response to the piping leak noted above, five tank backfill wells (S-1 through S-4, and S-11) and six groundwater monitoring wells (S-5 through S-10) were installed at the site sometime prior to August 1983. Groundwater monitoring has been conducted at the site since 1983. Since 1996, Well S-9 has apparently been coated with a tar-like substance that has prevented the well from being sampled.

Between 1983 and 1986, approximately 25,246 gallons of petroleum hydrocarbon impacted groundwater was extracted from onsite wells, reportedly removing approximately 400 gallons of SPHs. In 1989, three groundwater monitoring wells (S-12 through S-14) were installed and two groundwater monitoring wells (S-6 and S-7) were decommissioned; and Well S-11/D was located in the UST backfill area. Soil samples collected during well installation identified residuals of total petroleum hydrocarbons (TPH) as oil range

hydrocarbons (TPH-o) up to 11,000 milligrams per kilogram (mg/kg), TPH-d (diesel range hydrocarbons) up to 3,300 mg/kg, TPH-g (gasoline range hydrocarbons) up to 9,100 mg/kg, and BTEX up to 900 mg/kg.

In 1995, an SPH sample was collected and analyzed by Shell's laboratory and was determined to contain approximately 50 percent gasoline and 50 percent C_{20} to C_{50} hydrocarbons, possibly roofing tar. In 1996, six offsite soil borings (B-1 through B-6) were advanced downgradient of the Site to depths up to 16 feet bgs; analyzed soil samples contained total recoverable petroleum hydrocarbons (TRPH) up to 1,500 mg/kg, TPH-d up to 870 mg/kg, TPH-g up to 43 mg/kg, ethylbenzene up to 0.072 mg/kg, and xylenes up to 0.19 mg/kg. TPH-g, VOCs and MTBE were not detected in the grab-groundwater samples collected from the downgradient borings. In 1998, secondary containment was added to the dispensers and turbine pumps. Soil samples collected beneath dispenser (D-5, D-6, D-7 and D-9) contained concentrations of TPH-d and TPH-g up to 260 mg/kg, BTEX up to 14 mg/kg and MTBE up to 0.13 mg/kg.

On May 20, 1996, six soil borings ranging from 7 to 16 feet bgs were installed to assess soil and groundwater downgradient from the subject property. Up to 43 parts per million (ppm) total petroleum hydrocarbons (TPH) as gasoline (TPH-g), 870 ppm TPH as diesel (TPH-d), and 1,500 ppm total recoverable petroleum hydrocarbons (TRPH) were detected in soil.

In 2004, the fuel dispensers were upgraded and a product line was repaired. Nine soil samples (MPD-1 through MPD-9) were collected from beneath the dispensers and two soil samples were collected from beneath the repaired product line (MPD-10 at 4.3 and 4.6 feet bgs). Analyzed soil samples contained concentrations of TPH-d up to 3,500 mg/kg, TPH-g up to 7,900 mg/kg, BTEX up to 630 mg/kg (xylenes), MTBE up to 0.64 mg/kg and lead up to 150 mg/kg. Due to newly installed piping, the vertical extent of the impacted soil was not determined.

In 2005, an SPH sample was analyzed and determined to contain approximately 18% by weight gasoline, little material from C_{13} to C_{18}, 45% by weight in the vacuum gas oil range (carbon range higher than diesel, ie., pitch or asphalt), and 35% by weight vacuum residue range (heavy fraction hydrocarbons up to C_{110}). In 2006, a grab water sample was collected from the second stage of the six-stage carwash clarifier sump, the sump was pumped out, and continuous cracks were observed in the first and second stages of the clarifier sump. The grab water sample contained 14,000 micrograms per liter (µg/l) oil and grease, 5,300 µg/l motor oil range organics (C_{24}-C_{36}), 30,000 µg/l hydraulic oil range organics (C_9-C_{36}), 10,000 µg/l TPH-d, 0.55 µg/l toluene, and 3.5 µg/l xylenes. As a result of these findings, an unauthorized release form was submitted to the regulatory agency. In April 2006, additional soil and groundwater investigation identified soil impacts from TPH-d up to 6,060 mg/kg, TPH-g up to 502 mg/kg, BTEX up to 0.328 mg/kg and MTBE up to 0.0396 mg/kg. Grab-groundwater samples contained concentrations of TPH-d up to 66,000 µg/l, TPH-g up to 13,500 µg/l, BTEX up to 35.5 µg/l and MTBE up to 72.7 µg/l.

In 2006, six borings were installed on the subject property to further investigate the extent of petroleum hydrocarbon-impacted soil, at the request of the ACDEH. TPH-g and TPH-d were detected in all soil samples at concentrations up to 502 ppm and 6,060 ppm, respectively. BTEX were detected in soil samples at concentrations up to 0.0987 ppm, 0.0160 ppm, 0.123 ppm, and 0.328 ppm, respectively. MTBE was detected at concentrations up to 0.0396 ppm.

In groundwater, TPH-g and TPH-d were detected at concentrations up to 13,500 µg/l and 66,000 µg/l, respectively. BTEX was detected in groundwater at concentrations up to 35.5 µg/l, 10.2 µg/l, 3.67 µg/l,

and 18.9 µg/l, respectively. MTBE was detected at concentrations up to 72.7 µg/l, and tertiary butyl alcohol (TBA) was detected in one groundwater sample at a concentration of 50.4 ppb.

Historically, separate phase hydrocarbons (SPH) have been detected in three monitoring wells. In February 1996, SPH was measured at 2.79 feet in well S-9; and in November 1996, 9 feet of SPH was measured. Subsequent readings indicated that SPH was present, but did not indicate thickness. A sample analyzed in November 1995 determined that SPH consisted of approximately 50% gasoline, with the remainder a hydrocarbon mixture indicative of roofing material.

4.0 2013 DIESEL LINE RELEASE HISTORY

The following sections present a summary of the events pertaining to the accidental damage of a diesel product line and subsequent mitigation. Photographs 1 and 2 depict the fiberglass line that was damaged in September 2013. As noted in Section 2.0, the diesel line was damaged during the advancement of borings BV-1 through BV-4, to collect data to pre-profile the landfill materials and soil which were to be excavated as part of the station redevelopment.

4.1 TIMELINE OF LINE DAMAGE AND MITIGATION EFFORTS

Au Energy contracted with BVNA in 2013 to collect soil samples to pre-profile the soil and materials to be excavated prior to removal and replacement of the existing underground storage tank system associated with planned redevelopment of the Site in 2014. Prior to conducting the field work, BVNA obtained the required Alameda County Public Works drilling permit (permit number W2013-0824 dated September 26, 2013. The proposed boring locations were marked and Underground Service Alert (USA) was notified on September 18, 2013 as required by law (USA Notification Number 0366492), and the boring locations were cleared of underground utilities by a private utility locator, OHJ Subsurface Locator.

4.1.1 September 30, 2013

On September 30, 2013, BVNA performed the permitted soil characterization field work. Prior to coring and drilling, BVNA obtained the services of a utility locating subcontractor. Proposed drilling locations were cleared using remote sensing equipment. However, concrete pad areas apparently contained metal reinforcements which attenuate remote sensing signals. BVNA then utilized hand clearing equipment and hydraulic direct push drilling equipment (truck-mounted GeoProbe equipment) to conduct drilling and sampling activities. Four borings (BV-1 through BV-4) were hand-cleared of underground utilities prior to advancement of the GeoProbe equipment. Borings BV-1 and BV-2 were advanced a depth of 20 feet bgs for soil logging and sampling. Boring BV-3 was located just east of the southernmost fuel island; the concrete pad was cored and a hand probe was utilized to clear the boring of underground utilities to a depth of approximately 5 feet bgs. The subsurface fiberglass diesel product line was apparently damaged by the hand probe; BVNA field staff was unaware that the diesel product line was damaged as it was not in use at the time. Boring BV-3 was then advanced by GeoProbe to a total depth of 12.5 feet bgs and soil samples were collected. Boring BV-4 was located just east of the middle fuel island and the concrete slab was cored and a hand probe was advanced to check for utilities. However, upon advancing the GeoProbe core barrel, the driller terminated the operation at 3 feet bgs due to a vibration that indicated a utility existed at that location. No soil samples were collected and the boring was abandoned.

Boring logs for BV-1 through BV-4 are included as Appendix C. As summarized in the logs, asphalt roofing tiles, concrete and brick debris were encountered in the soils recovered from the boreholes. A figure depicting the location of the boreholes BV-1 through BV-4 is included in the figures tab. A summary table of the analytical data is included as Table 1.

The diesel fueling system reportedly went into alarm and shut down when a diesel fueling dispenser was used at approximately 12:30 pm. Service Station Systems responded to the Site to investigate a PLLD Gross Test Fail and PLLD Shutdown Alarm. BVNA understands that Service Station Systems inspected the fuel system alarm and started the diesel-fuel turbine pumps in several attempts to return the diesel fuel system to operational status. Fuel was released during these attempts until the system was confirmed to be leaking and was shut down for repair.

Soil samples collected by BVNA were submitted to a California certified laboratory for analysis for extractable and purgable TPH, VOCs, SVOCs, PCBs, and CAM 17 metals. Submitted samples were from borings BV-1, BV-2, and BV-3 from depths that ranged from 11.5 feet to 13.5 feet bgs. The analytical results are summarized in Table 1. Boring logs are included as Appendix C followed by the analytical data for samples collected from these boreholes. The analytical soil results were provided to Au-Energy and used to plan soil disposal upon expansion of the UST excavation pit.

4.1.2 October 1, 2013

Service Station Systems notified Au Energy of possible damage to a diesel fuel line and disabled diesel fueling operations. At the time, Au Energy submitted notifications to regulators, began investigation to reconcile loss of inventory, and dispatched contractors for repair and cleanup activities. A copy of the unauthorized release form that was filed is included in Appendix A.

4.1.3 October 2, 2013

Au Energy completed notification procedures to OES and responded to calls requesting details from CAL EPA, U.S. Coast Guard, and California Fish and Wildlife. Au Energy contractor and consultant Walton Engineering and BVNA, respectively, mobilized to the Site to perform excavations and investigate the area of Borings BV-3 and BV-4 to locate the reported release and/or damaged pipe (Photographs 1 and 2). Following removal of concrete and soil from the Boring BV-3 location, a damaged fiberglass diesel fuel product line was discovered in the pea-gravel filled trench.

Using an oil/water interface meter, BVNA collected measurements of groundwater/SPH levels from UST backfill observation wells (S-1/A, S-2/E, S-3/B, S-4/C and S-11/D). Measurable SPHs were not found in the UST backfill observation wells S-1/A, S-4/C and S-11/D. SPH data from tank backfill wells S-3/B and S-2/E were recorded in the following tables.

Separate Phase Product Measurement Summary Table
In UST Backfill Well S-3/B

Date	Time	Location	Depth to Product	Depth to Water	Feet of Measured Product
10/2/13	13:00	S-3/B	5.80	6.15	0.35
10/2/13	14:45	S-3/B	5.82	6.18	0.36

Date	Time	Location	Depth to Product	Depth to Water	Feet of Measured Product
10/2/13	15:05	S-3/B	6.55	6.75	0.20
10/2/13	15:15	S-3/B	6.79	7.00	0.21
10/2/13	15:55	S-3/B	7.17	7.35	0.18
10/2/13	16:22	S-3/B	sheen	7.27	sheen
10/2/13	17:25	S-3/B	7.33	7.45	0.12

Separate Phase Product Measurement Summary Table
In UST Backfill Well S-2/E

Date	Time	Location	Depth to Product	Depth to Water	Feet of Measured Product
10/2/13	13:10	S4/C	5.49	5.73	0.24
10/2/13	14:55	S4/C	5.96	6.29	0.33
10/2/13	15:18	S4/C	6.50	6.54	0.04
10/2/13	15:40	S4/C	6.60	6.82	0.22
10/2/13	16:02	S4/C	6.88	6.90	0.02
10/2/13	16:20	S4/C	6.92	7.10	0.18
10/2/13	17:25	S4/C	7.74	7.79	0.05

Au Energy was notified of the SPH's in the wells and Clean Harbors was contracted to remove water/SPH mixture from via UST backfill observations wells (S-2/E and S-3/B) utilizing a vacuum truck. During extraction of the liquids, the levels of SPH decreased in the observation wells. Approximately 5,000-gallons of water/SPH mixture were removed by Clean Harbors under manifest, which was transported to Seaport Environmental in Redwood City for treatment and disposal. Disposal tickets and bill of lading information for this waste liquid is included as Appendix C.

Outside of the tank pit, BVNA monitored groundwater wells S-9, S-10 and S-13, which are located downgradient of the damaged product line, for measurable SPH on October 2nd, 3rd, 4th, 7th, 9th, 15th and 23rd, 2013. Measurable SPH was not detected in these wells. The table below presents a summary of the measurements obtained from the monitoring wells:

Separate Phase Product Measurement Summary Table
In Groundwater Monitoring Wells

Date	Time	Location	Depth to Product	Depth to Water	Feet of Measured Product
10/2/2013	1330	S-9	ND	DRY	ND
10/2/2013	1335	S-10	ND	9.05	ND
10/2/2013	1340	S-13	ND	8.75	ND
10/3/2013	1035	S-9	ND	DRY	ND
10/3/2013	1025	S-10	ND	9.06	ND
10/3/2013	1018	S-13	ND	8.73	ND

Date	Time	Location	Depth to Product	Depth to Water	Feet of Measured Product
10/4/2013	930	S-9	ND	DRY	ND
10/4/2013	940	S-10	ND	9.11	ND
10/4/2013	935	S-13	ND	8.79	ND
10/7/2013	637	S-9	ND	DRY	ND
10/7/2013	647	S-10	ND	9.15	ND
10/7/2013	642	S-13	ND	9.78	ND
10/9/2013	710	S-9	ND	DRY	ND
10/9/2013	720	S-10	ND	9.14	ND
10/9/2013	715	S-13	ND	8.71	ND
10/15/2013	1620	S-9	ND	DRY	ND
10/15/2013	1625	S-10	ND	9.28	ND
10/15/2013	1630	S-13	ND	8.93	ND
10/23/2013	1620	S-8	ND	5.74	ND
10/23/2013	1625	S-9	ND	DRY	ND
10/23/2013	1630	S-10	ND	9.40	ND
10/23/2013	1630	S-13	ND	9.03	ND
10/30/2013	655	S-8	ND	5.92	ND
10/30/2013	700	S-9	ND	DRY	ND
10/30/2013	710	S-10	ND	9.53	ND
10/30/2013	705	S-13	ND	9.21	ND
11/22/2013	700	S-8	ND	5.77	ND
11/22/2013	715	S-9	ND	DRY	ND
11/22/2013	710	S-10	ND	8.58	ND
11/22/2013	705	S-13	ND	9.10	ND

To date, no measurable SPH has been detected in the monitoring wells after this event. Based on the high permeability of the pea gravel in the pipeline trench, it is likely that the diesel that was released travelled along this trench into the nearby UST pit backfill, which was then removed by vacuum truck extraction.

It should be noted that eventually the UST backfill was excavated and additional groundwater and soils were removed during the station upgrade activities conducted in 2014 and 2015.

4.1.4 October 3, 2013

Walton Engineering reportedly completed repair of the fiberglass diesel product line and coordinated arrangements for follow-up inspections with local regulators.

4.1.5 October 4, 2013

Mr. Jeremy Wilson of BVNA, under the direction and oversight of Chris Tougeron of ACDEH, collected two soil samples (CS-1 and CS-2) from within the excavation at the damaged diesel product line location; CS-1 was collected at a depth between 3.0 and 3.5 feet, adjacent to the damaged area; CS-2 was collected at a depth between 2.5 and 3.0 feet, approximately 3.0 feet southwest of the damaged product line. The two soil samples were analyzed for TPH-d, BTEX, ethylene dibromide (EDB), ethylene dichloride (EDC), MTBE, tertiary amyl methyl ether (TAME), ethyl tertiary-butyl ether (ETBE), di-isopropyl ether (DIPE), tertiary butyl alcohol (TBA) and ethyl alcohol (EtOH) as directed by ACDEH. Detected concentrations included ethylbenzene up to 4,900,000 mg/kg, total xylenes up to 26,000,000 mg/kg, TBA up to 12,000,000 mg/kg and TPH-d up to 20,000 mg/kg. Remaining constituents were not detected above the laboratory reporting limits. It should be noted that laboratory reporting limits were elevated due to the detected concentrations. Walton Engineering completed the required precision testing of the repaired diesel product line and received approval from ACEH allowing diesel dispensing to resume.

The analytical data and chain of custody records for CS-1 and CS-2 are included as Appendix E. It should be noted that these soils were later excavated during the diesel line excavation work as shown in Section 5.0.

4.2 WELL INSTALLATION TIMELINE

Groundwater monitoring has been conducted at the Site since 1983. Between 2011 and 2012, detected constituents in groundwater samples included TPH-d up to 15,600 µg/l, TPH-g up to 950 µg/l, BTEX up to 23 µg/l and MTBE up to 120 µg/l. Information associated with previous investigations at the Site is available on the California Regional Water Quality Control Board (RWQCB) online GeoTracker web page.

Groundwater flow has been variable across the Site due in part to both the extensive heterogeneous nature of the fill materials and that the Site is located on a peninsula which is surrounded by the San Francisco bay. The bay margins are located approximately 450 feet to the north, and approximately 350 feet to the south and about ½ mile to the west outward of the peninsula's marine harbor.

4.2.1 January 2012

The ACDEH approved the workplan prepared by Conestoga-Rovers & Associates (CRA) on behalf of Shell Oil Products US entitled *Subsurface Investigation Workplan* and dated June 2, 2011. The purpose of this workplan was to re-install well S-9 or co-locate a new well adjacent to well S-9 due to the issues with the tar like substances present in the landfill affecting well S-9. Groundwater monitoring well S-9 has contained tar like substances since at least 1996, and by 2009 there was reportedly sufficient tar like substances in the well that sealed the well screen. Well S-9 has been reported to be dry to date.

This well is located in the sidewalk along Powell Street along the central southern border of the Site. During the field work conducted in late 2012, CRA attempted to re-install this well in the same location, but due to the number of utilities which had been subsequently installed around the vicinity of the well since its installation, a suitable safe drill location could not be found. Photograph 4 depicts the numerous utilities present at this location in the sidewalk and the street. Due to the number of utilities located along

the sidewalk and street corridor, an additional well was not installed. Groundwater monitoring resumed using the existing wells.

4.2.2 October 31, 2013

BVNA, on behalf of Au Energy, LLC submitted the *Work Plan for Subsurface Investigation and Groundwater Monitoring Well Installation* to ACDEH which was prepared in response to the ACEH's letter dated October 10, 2013. In this letter, the ACDEH stated that it was currently providing regulatory oversight of an open fuel leak case for the site due to historic releases that occurred prior to September 30, 2013 and that groundwater monitoring was continuing for the former fuel releases.

On November 25, 2013, the ACDEH approved the conditional approval of the October 31, 2013 work plan. The Work Plan indicated that the site would be redeveloped in the summer of 2014 and proposed that interim cleanup be postponed until the site is redeveloped. Well MW-1 was proposed in a similar location to S-9, however based on the proximity of the utilities in the sidewalk and the Pacific, Gas and Electric (PG&E) line located on the north side of the sidewalk between the sidewalk and the diesel line break point, a safe distance from those lines could not be established.

The installation of the well was delayed due to the redevelopment of the site. At that time downgradient locations south of the site were researched to find a more suitable down gradient location absent of utilities.

4.2.3 Down Gradient Well Installation – California Coastal Commission

According to the letter, Conditional Approval of Work Plan for Fuel Leak Case No. RO0000254 and GeoTracker Global ID T0600101231, Shell #13-5266, 1800 Powell Street, Emeryville, CA 94608, prepared by the ACDEH, dated June 22, 2015, it was requested that the well screens have lengths no greater than 15 feet with the tops of the wells approximately 2 to 3 feet above the historic water levels, and that the wells be developed no sooner than 48 hours after installation and sampled at least 72 hours after development.

Previously, Shell Oil Products (Shell) attempted to place a monitor well in the sidewalk area adjacent to well S-9 (downgradient of the former USTs) in 2011-2012. Based on the findings of the utility clearance and field reconnaissance in the area of S-9, Shell determined that no safe location was available to install a replacement well due to the number and proximity of the utilities.

Based on utilities reportedly present in the street, BVNA proposed to place additional down gradient monitor wells south of Powell Street in the open area between the street and the bay as proposed in the "Work plan for the installation of two groundwater monitoring wells and to re-locate monitoring well S-13," dated May 26, 2015 (Work Plan). However, after conducting several utility clearances in 2015, and an onsite meeting with the Mr. Nate Luna with the East Bay Parks District in April 2015, it was determined that wells south of the sidewalk on the south side of Powell Street would be within 100 feet of the shoreline, which is restricted by the California Coastal Commission.

At the time, BVNA also met with PG&E field representatives PG&E who had marked out their utilities below the sidewalk along the south side of Powell. According to the PG&E field representatives, no subsurface excavation or drilling would be allowed within 5 feet of the lines in the sidewalk areas. This

restriction by PG&E meant that proposed wells locations would then be within 100 feet of the shoreline, therefore, restricted by the East Bay Parks and Coastal Commission as noted above.

According to Mr. Jerry Wickham with ACDEH, in a phone conversation with BVNA in May 2015, it was noted that in 2006 during the development of the Initial Site Conceptual Model by Shell's environmental consultant Cambria Environmental, Cambria was unable to obtain the encroachment permit from the California Department of Parks and Recreation to advance borings and install groundwater monitor wells south of Powell Street. Currently there appears to be no safe location in the sidewalks on either side of Powell Street south of the Site. Restrictions by the California Coastal Commission or East Bay Parks District will not allow for installation of wells south of Powell Street. BVNA then recommended reconvening with ACDEH to evaluate whether these additional monitor wells were necessary to continue monitoring the groundwater conditions at the site.

Due to the extensive excavation work that has been conducted at the Site in 2014, it was recommended that the existing wells be monitored to confirm that the concentrations of diesel detected in the wells continued to decline.

5.0 DIESEL IMPACTED SOILS REMEDIATION

5.1 MAY 15, 2014 INTERIM CLEANUP WORKPLAN

The ACDEH requested additional investigation and interim site cleanup due to the diesel line rupture. The objective of this Work Plan presents the scope and approach to the requested interim cleanup. A previous work plan, Work Plan for Subsurface Investigation at Shell-Branded Gasoline Service Station, dated October 31, 2013, prepared by BVNA included plans to install a groundwater monitoring well; however, this was delayed, because of anticipated removal of concrete and soils in the area of the diesel line rupture, and due to the presence of subsurface utilities near the planned well location to the south of this location.

In a follow up letter from the ACDEH dated May 20, 2014, it was requested that the proposed excavation (20 feet by 25 feet by 9 to 10 feet below grade) be expanded to remove contamination wherever feasible, particularly along the product lines. The final extent of the excavation was to be based upon field inspection by ACDEH and confirmation soil sample results.

5.2 JUNE 6, 2014 WORKPLAN TO WIDEN THE UST AND TRENCH EXCAVATIONS

BVNA prepared a Work Plan to address the widening of the existing excavations at the Site. At the request of the ACDEH during a phone conversation on June 3, 2014, the plan detailed soil management procedures for the additional excavation of sidewall materials beyond the extent of the excavation pit that was being excavated to remove the former USTs.

During the removal of the former USTs, materials surrounding the USTs were sampled in-situ prior to their removal. The sampled materials included soil, fill of unknown origin generally found below the depths of 4 to 8 feet bgs, and pea gravel (former UST backfill and support material). The samples were collected from the pit sidewalls and base by Mr. Ray James of Sparger Technology on behalf of Au Energy.

Following sampling, approximately 300 cubic yards of pea gravel was removed from the excavation and temporarily placed on and covered with plastic, adjacent and to the northeast of the excavation. On June 3, 2014, ACDEH verbally approved temporary re-use of the stockpiled pea gravel to provide stability during installation of temporary shoring in the excavation.

5.3 AUGUST 11, 2014 UNDERGROUND STORAGE TANK REMOVAL REPORT

The task of the project consisted of the removal of the underground storage tanks, dispenser islands and associated piping. It was determined that soils which may have been impacted by the 2013 diesel fuel line release were to be excavated at the same time. Four 10,000-gallon single wall fiberglass USTs were removed (three gasoline and one diesel). These were replaced with two new double wall fiberglass USTs. A 20,000-gallon regular unleaded gasoline and a 15,000-gallon tank split 7,000-gallon diesel and 8,000-gallon premium gasoline. Soil and historical industrial waste debris previously deposited beneath the site and surrounding area was found to also contain Asbestos Containing Materials (ACM) in additional to the roofing tiles, tar, brick and concrete debris. The excavated fill materials were transported offsite as hazardous waste in covered bins (Photograph 4).

A sample of perched water in the excavated pit contained 12,000 ug/L TPH-g and 29,000 ug/L TPH-d. Benzene was reported at 290 ug/L. Approximately 10,000-gallons of fuel impacted groundwater was subsequently pumped from the tank pit on May 19, 2014 and disposed of offsite.

A copy of this report is included as Appendix F. This report includes the manifests, analytical results, figures and table of sample locations for the soil and groundwater samples collected during the UST removal activities.

5.4 DIESEL EXCAVATION GRADING PERMIT AND BACKFILL LETTER

At the request of Ms. Courtney Barrett, Permit Technician/Plan Checker, with the City of Emeryville Building Department, on behalf of Au Energy, BVNA prepared a letter describing the excavation work to be conducted in the vicinity of the former diesel fuel line release. The purpose of this letter was to describe the excavation methods and backfilling procedures in the area of the diesel fuel line release in order for the City of Emeryville to approve of the grading permit for excavation of the former USTs. This letter and attachments are included as Appendix G.

5.5 INTERIM REMOVAL ACTION REPORT

5.5.1 Background

The report summarizes the soils removal work in the vicinity of the 2013 diesel fuel line release. The report is included as Appendix H. Photographs of the base of the excavation are included in the Photograph tab as Photographs 6 and 7.

In 2013, BVNA was retained to collect soil samples for waste characterization prior to the planned site excavation and redevelopment activities. During that work, a subsurface fiberglass diesel fuel product line was damaged and diesel was released. Following the diesel release, up to approximately 3 inches of SPH was measured in two of the UST backfill observation wells (S-2/E, S-3/B). Approximately 5,000

gallons of water/SPH mixture were removed for offsite disposal. Disposal documentation is included as Appendix D for the liquid waste.

The proposed extent of excavation presented in the May 19, 2014 diesel line excavation workplan was anticipated to be at least 20 feet by 25 feet laterally. A response from the ACDHE dated May 20, 2014, stated that the diesel line release may have impacted a larger area than proposed, and requested that the excavation be expanded to remove diesel contamination where observed and feasible. This scope of work was conducted using the expanded excavation of visibly impacted material approach as guidance.

In May through June 2014, three gasoline USTs, and one diesel UST were removed from the site as well as impacted soil, fill materials and pea gravel around the former USTs. The removal of these USTs is documented in a report entitled *Underground Storage Tank Removal Report* dated August 11, 2014, prepared by Sparger Technology Inc.(Appendix F). The extent of excavation to remove soils, fill materials, and pea gravel fill around the former USTs ranged from at least 45 feet by 65 feet to 12 feet in depth. The depth of the UST excavation was later expanded to approximately 22 to 25 feet deep (Section 5.2.2.). Figure 3 depicts the lateral extent of these excavations and Figure 5 present a cross sectional view of the vertical extent.

5.5.2 Excavation Activities

On June 20 - 26, 2014, NCM/LVI Services under contract with Wendt Construction performed the excavation work using a long reach excavator and directly loaded the diesel impacted soil and fill materials into lined-trucks for disposal at Forward Landfill in Manteca California.

Subsurface materials encountered during this excavation work included silty clays to clays mixed with a significant amount of fill materials and debris. This debris included roofing materials, shingles, insulation, wood, brick debris, glass, gravel, and trash debris. During the excavation, the impacted gravel fill in the former diesel pipeline trench was observed and excavated as well as diesel-impacted fill materials. Soils were removed laterally and vertically to a point where there was no visible diesel fuel impact in the sidewalls or base of the excavation.

Soils and fill materials were removed in a westerly direction from the former diesel line break to a point where no visible impact was observed. This included soils below both former dispenser islands locations. Soils to the south were removed to the extent possible. The south side of the excavation was constrained by the nearby PG&E utility line. However, at the edge of the excavation, little to no visible diesel impact was observed. Soils to the north were removed to a point where little to no diesel impact was observed in the remaining soil/fill materials. Soils to the east were removed laterally to the point of contact with the west side of the former UST excavation, which was previously excavated, but had been backfilled at that point.

The depth of the excavation ranged from 5 to 6 feet deep. At this depth roofing materials, which included tar shingles and tar paper were encountered throughout the excavation, but did not appear impacted with diesel fuel below 5 to 6 feet bgs. Fill materials which appeared impacted with diesel were removed above this depth. UST removal work revealed fill materials that extended to depths of 10 to 18 feet in the area of the former USTs. No base samples were collected in the diesel pipeline excavation, since the materials at the base of the excavation consisted of primarily roof shingles and tar paper debris that likely

extended to depths of at least 12 feet bgs. Furthermore, these fill materials did not appear impacted with diesel fuel from the former 2013 release.

Figure 3 depicts the lateral extent of the soils which were removed from around the diesel line and the extent of soils which were removed from the adjacent former UST area. The red outline depicts the extent of the excavation by June 23, 2014. Based on the sample results, the excavation was further widened on the north, west, southwest and east sides. On June 26, 2014, two additional confirmation samples were collected to represent the remaining soils at the edges of the excavation. This additional excavated area is outlined in blue on Figure 3.

Mr. Jerry Wickham with ACDEH was present to observe the extent of the excavation work. Excavation activities were completed to the south and bounded by the proximity to the PG&E underground utility line. The base of the excavation the former diesel line trench consisted of roofing tiles and debris at a depth of about 5 feet bgs. No indications of diesel impact were noted in the roofing tile debris. Based on the data and field observations, no additional excavation was requested at that time by the ACDEH.

Figure 2 depicts the former UST locations along with the new tank placement location. Once the USTs had been removed, due to the significant amount of fill materials in the new tank hold area, Au Energy conducted an extensive excavation of the area to remove the fill materials. From May through July 2014, the excavation in the vicinity of the former USTs was widened. Figure 3 presents a depiction of the later extent and Figure 5 present a depiction of the vertical extent of the diesel and former UST excavation.

In May and June 2014, three gasoline USTs, and one diesel UST were removed from the site along with fuel impacted soil and pea-gravel fill materials that supported the former USTs. The removal of these USTs is documented in a report entitled *Underground Storage Tank Removal Report,* dated August 11, 2014, prepared by Sparger Technology Inc. The area excavated was approximately 45 feet by 65 feet long by 12 feet deep. On June 5, 2014, at the request of the ACDEH, BVNA prepared a work plan detailing soil management procedures at the Site for additional excavation of sidewall materials beyond the extent of the current excavation of the former UST pit. The purpose of this excavation work was to remove the fill materials impacted with the roofing debris, concrete, brick and wood that was located in the proposed new UST area. This work plan is included as Appendix J.

The table below summarizes the soil tonnages that were transported offsite for the soils removed during the excavation. Appendix I includes the waste disposal documentation for these soils. In total 1,383 tons of soil and fill materials were excavated and disposed of at Forward Landfill. The following summary table lists the weight in tons for each load off hauled.

Summary Table of Soils Sent to Forward Landfill During Excavation

Date	Weight (tons)	Date	Weight (tons)	Date	Weight (tons)
6/9/2014	19.71	6/23/2014	21.67	7/3/2014	20.92
6/9/2014	19.73	6/23/2014	23.41	7/3/2014	20.93
6/9/2014	13.09	6/23/2014	21.76	7/3/2014	21.34
6/10/2014	13.73	6/23/2014	21.56	7/3/2014	19.96
6/10/2014	18.8	6/23/2014	23.66	7/3/2014	21.39
6/10/2014	17.19	6/23/2014	21.84	7/3/2014	17.87

6/10/2014	20.03	6/23/2014	19.55	7/3/2014	20.91
6/12/2014	6.87	6/24/2014	23.07	7/3/2014	18.16
6/12/2014	11.62	6/24/2014	8.11	7/3/2014	19.62
6/12/2014	9.37	6/24/2014	6.11	7/3/2014	16.76
6/12/2014	12.18	6/24/2014	22.67	7/7/2014	16.52
6/12/2014	22.19	6/24/2014	22.3	7/7/2014	17.19
6/12/2014	16.5	6/24/2014	15.19	7/7/2014	18.2
6/12/2014	16.11	6/24/2014	17.02	7/7/2014	15.53
6/13/2014	13.42	6/24/2014	16.3	7/7/2014	18.31
6/13/2014	6.91	6/24/2014	17.24	7/7/2014	19.5
6/13/2014	6.84	6/24/2014	22.74	7/7/2014	21.06
6/13/2014	7.3	6/24/2014	15.61	7/7/2014	17.12
6/13/2014	23.45	6/25/2014	18.33	7/7/2014	19.86
6/13/2014	10.39	6/25/2014	15.59	7/8/2014	18.49
6/13/2014	18.06	6/25/2014	23.88	7/9/2014	9.98
6/16/2014	18.63	6/25/2014	19.97	7/23/2014	17.08
6/17/2014	14.07	6/25/2014	16.71	7/23/2014	16.44
6/20/2014	22.62	6/25/2014	17.11	7/23/2014	17.29
6/20/2014	23.74	6/26/2014	22.9	7/23/2014	14.33
6/20/2014	17.15	6/26/2014	17.45	7/23/2014	14.79
6/20/2014	22.0				

Additional soil generated from the excavation of soils from the new utility trenches, building pad and car wash foundations, and canopy footings was also disposed of at Forward Landfill in August 2014. Manifest for these soils are included in Appendix I.

Summary Table of Soils Sent to Forward Landfill During Construction

Date	Weight
8/26/2014	16.0
8/26/2014	15.37
8/26/2014	16.44
8/27/2014	18.19

Manifests for the soils which were removed from the UST are included as Appendix I

5.5.3 Diesel Line Excavation Results

Fill materials along the diesel pipeline trench and release point, which appeared to have been impacted by the diesel release, were excavated. The lateral extent of the excavation was significantly larger than

what was proposed in the May 2014 work plan fulfilling the request by the ACDEH. During this excavation effort, diesel impacted fill materials were excavated where visually found. Final confirmation samples contained remarkably less naphthalene, VOCs, and diesel range hydrocarbons than previously collected samples (CS-1 and CS-2 in Section 4.1.5 & Appendix E) in the diesel impacted areas. Residual petroleum hydrocarbons may also be attributed to the significant amount of fill materials present in the sidewall areas of the excavation.

The analyzed constituents detected in DE-1S, DE-2W and DE-2E are summarized as follows:

- TPH-d concentrations in the second confirmation samples ranged from 110 to 460 mg/kg.
- TPH-o concentrations in these two samples ranged from 170 to 1,300 mg/kg.
- Napthalene ranged from below the detection limit in both samples to 2.3 mg/kg.
- Detected VOC concentrations were xylenes which ranged from below the detection limit to 14 µg/kg.

In conclusion, the soil and fill materials around the former diesel product lines have been excavated to the extent possible of visible diesel impacted soil and fill materials. Fill materials are present outside of the excavated areas across the site which include, brick and glass debris, asphalt shingles and paper, trash, building and roofing insulation, and wood debris.

It was noted that the confirmation samples also contained a significant amount of roofing debris, brick, concrete and tar like substances and that these concentrations appear to be in line with the concentrations observed at other locations in the Site from the fill layers.

6.0 GROUNWATER REPORT – JULY 2017

At the request of the ACDEH, BVNA sampled the onsite wells at the Site in July 2017. The results of this investigation are included as a separate report, summarized here below.

Groundwater monitoring activities for the Third Quarter 2017 were performed on July 31, 2017, and consisted of obtaining groundwater level measurements, groundwater purging and sampling, and laboratory analyses of groundwater samples obtained from wells S-8, S-10, S-12, and S-14.

Three of the wells were not accessible at the time of sampling. Well S-9 was dry as noted in previous events. Well S-13 had been covered up by a new sidewalk. The location of the well was noted in the field based on the previous survey.

Groundwater flow conditions were assessed based upon the groundwater level measurements obtained from the four monitoring wells S-8, S-10, S-12, and S-14. Groundwater depths from the top of each well casing ranged between 6.66 and 9.84 feet. Groundwater elevations ranged between 2.74 and 6.10 feet above mean sea level (amsl). The decrease in average groundwater elevation at the site was 0.1 feet when compared to the previous event conducted on February 27, 2015.

Based on the measurements obtained during this sampling event, groundwater flow direction is variable and likely influenced significantly by the heterogeneity of the fill below the Site.

TPH-d concentrations were lower in each well when compared to the previous event conducted in 2015 and prior events when water samples were evaluated for TPH-d. The BTEX concentrations were below the reporting limits in S-10, S-12 and S-14. BTEX concentrations observed in S-8 were above the concentrations observed during the last sampling event conducted in 2015, but were similar to concentrations in previous events. The table directly below presents a summary of the data collected in 2017 along with previous sampling events.

Summary Table of Groundwater Monitoring Well TPH-d Data

Sample ID	Sample Date	TPH-d (ug/L) (C10-28) diesel range	Benzene (ug/L)	Toluene (ug/L)	Ethyl benzene (ug/L)	Xylenes (ug/L)
S-8	1/14/1991	760	190	5.8	<0.5	19
	1/16/2012	1400	NA	NA	NA	NA
	2/27/2015	NA	<0.5	<0.5	<0.5	1.3
	7/31/2017	50	16	1.2	2.1	2.3
S-10	1/16/2012	5700	NA	NA	NA	NA
	10/5/2012	510	10	2.9	<0.5	19
	12/9/2013	2100	2	0.61	<0.5	6
	2/27/2015	2100	<0.5	<0.5	<0.5	<1.0
	7/31/2017	1300	<0.5	<0.5	<0.5	<1.0
S-12	12/1/2011	15600	<0.5	<0.5	<0.5	0.97
	1/16/2012	1800	NA	NA	NA	NA
	10/5/2012	280	<0.5	<0.5	<0.5	<1.0
	12/9/2013	250	<0.5	<0.5	<0.5	<1.0
	2/27/2015	630	<0.5	<0.5	<0.5	<1.0
	7/31/2017	230	<0.5	<0.5	<0.5	<1.0
S-14	12/1/2011	7610	<0.5	<0.5	<0.5	<0.5
	1/16/2012	1400	NA	NA	NA	NA
	10/5/2012	1300	<0.5	<0.5	<0.5	<1.0
	2/27/2015	770	0.94	0.55	<0.5	<1.0
	7/31/2017	180	<0.5	<0.5	<0.5	<1.0
RWQCB ESL		100	1	40	13	20

Based on the data collected from the available monitoring wells, the TPH-d concentrations in the wells are trending downward and decreasing. The diesel release reported in 2013 does not appear to have affected the concentrations of TPH-d in the monitored wells. As noted in the 2015 ground water monitoring report historical groundwater data indicate that total petroleum hydrocarbons as gasoline and fuel oxygenate concentrations in site wells are stable to declining. In their 2015 report, Conestoga-Rovers & Associates (CRA) also concluded that following AU Energy's September 2013 diesel release, there has been no appreciable change in total petroleum hydrocarbons as diesel concentrations in groundwater samples. The data collected during this July 2017 sampling event further support this conclusion.

In conclusion, the historical TPH-d concentrations in the monitored wells appears to be stable and or decreasing and no measurable increase in TPH-d concentrations have been observed after the diesel line release in 2013. In their November 15, 2016 report, AECOM also recommends that the Site environmental case associated with the 1982 unauthorized release be closed under the LTCP. Since the remediation efforts associated with the diesel line release have been effective at removing the diesel impacted soil and fill materials outside of the initially impacted areas, BVNA also recommends that these wells be considered for closure and properly abandoned at this time under the LTCP.

7.0 DISCUSSION AND RECOMMENDATIONS

7.1 RESIDUAL DIESEL FROM 2013

The lateral extent of the diesel excavation is depicted on Figure 3 and the vertical extent is depicted on Figure 5. A cross section of the diesel and UST excavations are shown in Figure 4 along with the extent of the fill materials encountered during the previous investigations.

The diesel impacted fill materials along the trench containing the diesel product line release were excavated. The extent of the excavation was significantly larger than what was proposed in the May 2014 work plan, fulfilling the request by the ACDEH. Final confirmation samples contained remarkably less naphthalene, VOCs, and diesel range hydrocarbons than previous samples in diesel impacted areas. Residual petroleum hydrocarbons may also be attributed to the significant amount of fill materials present in the sidewall areas of the excavation.

Based on the data collected from the available monitoring wells, the TPH-d concentrations in the monitored wells appear to be trending downward and decreasing. The diesel release reported in 2013 does not appear to have affected the concentrations of TPH-d in the monitored wells. As noted in the 2015 ground water monitoring report, historical groundwater data indicate that total petroleum hydrocarbons as gasoline and fuel oxygenate concentrations in site wells are stable to declining. Conestoga-Rovers & Associates (CRA, 2015) also concluded that following Au Energy's September 2013 diesel release, there has been no appreciable change in total petroleum hydrocarbons as diesel concentrations in groundwater samples. The data collected during this July 2017 sampling event further supports this conclusion.

In conclusion, the soil and fill materials impacted by diesel fuel have been excavated to the extent possible. Historical fill materials are present outside of the areas excavated for site remediation and

redevelopment, which include: brick and glass debris, asphalt shingles and paper, trash, building and roofing insulation, and wood debris.

7.2 LOW THREAT CLOSURE EVALUATION

On August 17, 2012, the SWRCB adopted Resolution No. 2012-0016, the LTCP. The intent of this policy is to increase cleanup process efficiency at petroleum release sites. A benefit of improved efficiency is the preservation of limited resources for mitigation of releases posing the greatest threat to human and environmental health. Per the policy, sites that meet the general and media-specific criteria described in the policy do not pose a threat to human health, safety, or the environment and are appropriate for case closure pursuant to Health and Safety Code section 25296.10. The policy further states that sites meeting the stated criteria for low-threat closure should be issued a closure letter. Site conditions with respect to this policy are discussed below.

7.2.1 General Criteria

- The unauthorized release is located within the service area of a public water system with no drinking water wells servicing the peninsula.

Satisfied: The Site and surrounding area are located within the East Bay Municipal Utilities District, which serves as the public water system. The spill site is an historical landfill site dating back to the 1800s, which has compromised the local groundwater quality.

- The unauthorized release consists only of diesel range petroleum hydrocarbons.

Satisfied: All documented unauthorized releases, beginning with the 1982 gasoline release and the 2013 diesel release, have been associated with the Site operations as a retail service station.

- The unauthorized (“primary”) release has been stopped.

Satisfied: In September 2013, a fiberglass supply pipeline near the south fuel dispenser island was damaged during the subsurface investigation. When the fuel pump was turned on subsequent to the damage, diesel fuel was released from the line into the pipe trench and traveled into the adjoining UST pit fill material. Upon confirmation of a pipeline leak, the diesel fueling system was locked out of service. Groundwater and floating product were extracted through the tank pit wells shortly after the release occurred as an interim remedial action. The line break area was excavated and the line was fixed. Subsequently, in 2014 through 2015, the entire Site was redeveloped with all trenching, piping and USTs were removed. Soils were excavated around the former diesel line break and former UST pit and expanded where visual impact was indicated. No SPH were observed in the groundwater monitoring wells and monitoring results from 2013 to present in nearby downgradient wells showed no observable increase in TPH-d concentrations in groundwater indicating that the interim remedial actions were effective and the spilled diesel fuel had not migrated away from the immediate spill area and UST pit. At present, the groundwater concentrations of TPH-d continue to show a decreasing trend from the historical concentrations present prior to the 2013 release.

- Free product has been removed to the maximum extent practicable and station remodeling and UST and ancillary piping replacement resulted in removal of fuel impacted soil where identified during excavation activities.

Satisfied: SPHs associated with the Shell gasoline release in 1982 have historically been observed in S-9, S-10 and S-13 since 1983 when groundwater monitoring began and continued through 1996. No SPH was reported in these wells post 1996. Immediately after the 2013 diesel release, the groundwater monitoring wells were monitored for SPH. Using an oil/water interface meter, BVNA collected SPH and groundwater measurements from UST backfill observation wells (S-1/A, S-2/E, S-3/B, S-4/C and S-11/D). Floating SPH was measured up to approximately three inches in two of the UST backfill observation wells (S-2/E, S-3/B). Measurable SPH was not found in the other UST backfill observation wells. Au Energy was notified of the accumulating SPH's and Clean Harbors was contracted by Au Energy to remove water/SPH mixture from the UST backfill area via UST backfill observations wells (S-2/E and S-3/B) utilizing a vacuum truck. Approximately 5,000-gallons of water/SPH mixture were removed for offsite disposal. Appendix D includes the disposal documentation for this liquid waste.

BVNA monitored groundwater monitoring wells S-9, S-10 and S-13, which are located downgradient and in proximity of the damaged diesel line, for measurable SPH on October 2nd, 3rd, 4th, 7th, 9th, 15th and 23rd, 2013. Measurable SPH was not detected in these wells. A table of these measurements is included in Section 4.1.3.

- A conceptual site model has been developed.

Satisfied: The ACDEH requested additional investigation and interim site cleanup due to the diesel line rupture. During the excavation of the soils and fill materials around the vicinity of the former diesel line break, the UST and piping excavation was expanded to remove observed contamination wherever feasible, particularly along the product lines with field oversight by ACDEH at the time of excavation. Based on the field observations and analytical data, the petroleum hydrocarbons remaining around the vicinity of the diesel line release appear to be associated with the extensive amount of existing historical landfill materials as the soils and pea gravel impacted by the diesel have been excavated and the source removed.

- Secondary source removal has been addressed.

Satisfied: Soils have been excavated laterally and vertically from the former diesel line release locations and the former UST tank pit. During the initial release, groundwater and SPH were removed from the UST monitoring wells. Subsequent to the interim remedial action, site remodeling in 2014 and 2015 resulted in additional groundwater and soils were excavated and disposed offsite.

Soil or groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code section 25296.15.

Satisfied: Soil and groundwater samples have been analyzed for MTBE.

- Nuisance as defined by Water Code section 13050 does not exist at the site.

Satisfied: Conditions meeting the definition of a nuisance as defined in Water Code section 13050 do not exist at the Site.

7.2.2 Media-Specific Criteria

The LTCP includes five classes of sites (that can be considered "low threat") with differing characteristics such as plume length, contaminant concentrations, and distance to supply wells or surface water bodies.

The current site plume has concentrations exceeding water quality objectives (WQOs), but is stable to decreasing in areal extent, considering the safety restrictions to obtaining additional off-site data, as discussed below.

The Site meets Case 1:

- The contaminant plume that exceeds water quality objectives is less than 100 feet in length.

Satisfied: WQOs for this report are derived from Table GW-2 of the Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) (RWQCB, Feb, 2016). WQOs were selected for the most conservative aquatic habitat goals. These levels were selected on the basis that the San Francisco bay is the nearest potential receptor and that groundwater in the region is not being considered as a future drinking water source, as stated in the East Bay Plain Groundwater Basin Beneficial Use Evaluation Report (RWQCB, 1999).

TPH-d concentrations in the soil confirmation samples collected from the base and sidewalls of the diesel excavation ranged from 110 mg/kg to 460 mg/kg. Furthermore, MTBE, fuel oxygenates, benzene, toluene, ethyl benzene and xylenes were not detected in soils, except for xylenes at 10 µg/kg and 14 µg/kg in the south and west sides of the excavation. These concentrations are well below the commercial ESL for xylenes.

Based on the data collected from the available monitoring wells, the TPH-d concentrations observed in the groundwater monitoring wells appears to be trending downward and decreasing. The diesel release reported in 2013 does not appear to have affected the concentrations of TPH-d observed in the wells. As noted in the 2015 ground water monitoring report historical groundwater data indicate that total petroleum hydrocarbons as gasoline and fuel oxygenate concentrations in site wells are stable to declining. Conestoga-Rovers & Associates (CRA, 2015) also concluded that following Au Energy's September 2013 diesel release, there has been no appreciable change in total petroleum hydrocarbons as diesel concentrations in groundwater samples. The data collected during the July 2017 sampling event further support this conclusion. Concentrations of residual TPH-d still exceed the WQO of 640 µg/L Site wide; however, diesel concentrations are attributed to background contamination associated with operations at the Site prior to it being a retail gas station is therefore not considered.

In conclusion, the TPH-d noted in the wells appears to be stable and decreasing as historically observed. Further monitoring of the wells would show that the concentrations should continue to show a decreasing trend. It is recommended that these wells be considered for closure and properly abandoned at this time.

- There is no free product.

Satisfied. Free product has not been detected in the Site groundwater monitoring wells since 1996. Immediately after the diesel line release, approximately 5,000 gallons of liquid was removed from the tank backfill wells.

- The nearest existing water supply well or surface water body is greater than 250 feet from the defined plume boundary.

Satisfied. A sensitive receptor survey conducted in 2004 did not find any water producing wells within a ½ mile radius of the Site (Cambria, 2006). The San Francisco bay was identified as the closest surface

water body located approximately “390 feet” south of the Site. As previously mentioned, the only constituent exceeding WQOs for the Site was TPH-g.

7.2.3 Petroleum Vapor Intrusion to Indoor Air

The Site is an active Shell-Branded service station and is exempt from the media specific criteria for petroleum vapor intrusion to indoor air. Additionally, the building at the Site has been constructed with a vapor barrier below the cement foundation.

7.2.4 Direct Contact and Outdoor Air Exposure

Satisfied: The analyzed constituents detected in DE-1S, DE-2W and DE-2E are summarized as follows:

- TPH-d concentrations in the second confirmation samples ranged from 110 to 460 mg/kg.
- TPH-mo concentrations in these two samples ranged from 170 to 1,300 mg/kg.
- Napthalene ranged from below the detection limit in both samples to 2.3 mg/kg.
- Detected VOC concentrations were xylenes which ranged from below the detection limit to 0.014 mg/kg .

Naphthalene commercial shallow soil exposure ESL is 14,000 µg/kg. The level detected in the confirmation sample was 2,300 µg/kg which is well below this Feb 2016 Rev 3 ESL. The TPH-d concentration for commercial shallow soil exposure is 1,100 mg/kg, and Tier 1 soil level is 230 mg/kg for direct exposure. Xylenes direct exposure ESL is 2,400 mg/kg and the Tier 1 soil is 2.3 mg/kg. The confirmation sample results were well below these guidance criteria. Furthermore, the soils at the Site are now completely covered in hardscape surfaces consisting of concrete building pads, parking lots and driveways.

8.0 CONCLUSIONS

- Diesel fuel which was initially released in 2013 was immediately captured in the UST backfill and extracted. Soils surrounding the former diesel line and USTs were excavated and approximately over 1,300 tons of soil, fill material and pea gravel were removed from the Site.
- SPH and diesel concentrations observed on Site in the confirmation samples collected after the excavations are attributed to historical Site landfill use and previous releases, which pre-date the 2013 diesel line release.
- There is no evidence of increased dissolved TPH-d concentrations observed in the wells as a result of the September 30, 2013, diesel release.
- The Site meets LTCP requirements for Low Threat Closure

BVNA recommends the Site environmental case associated with the 2013 diesel line unauthorized release be closed under the LTCP.

9.0 SIGNATURES

This report prepared by:

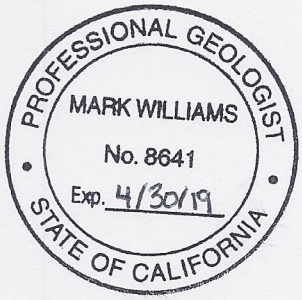
Donald A. Ashton, PG, REPA, QSD
Senior Geologist
Health, Safety and Environmental Services

This report reviewed by:

Mark Williams
Senior Project Manager
Health, Safety and Environmental Services

September 15, 2017

Project No. 33113-013181.00



PHOTOGRAPHS

Photolog
1800 ½ Powell, Emeryville, California
Bureau Veritas Project No. 33113-013181.00



Photo 1: View of diesel line with damage in the middle section of the visible piping (9/30/13).



Photo 2: Close up view of damaged diesel line (9/30/13).



Photo 3: Photograph of oily fill material with wood, concrete, roofing and insulation debris present at Site excavation work (2014).



Photo 4: View of utility line markings around Well S-9 during the 2012 attempted re-install activities.



Photo 5: Typical view of enclosed disposal bin of soil over-excavated from trenches and former UST tank hold sides and base.



Photo 6: View of diesel line excavation area (2015)



Photo 7: View of base of the diesel line excavation area (2015) with view of roofing tiles at base of the excavation

TABLES

Table 1
Summary of Soil Analytical Results - TPH, VOCs, SVOCs and Metals
1800 1/2 Powell Street, Emeryville, CA

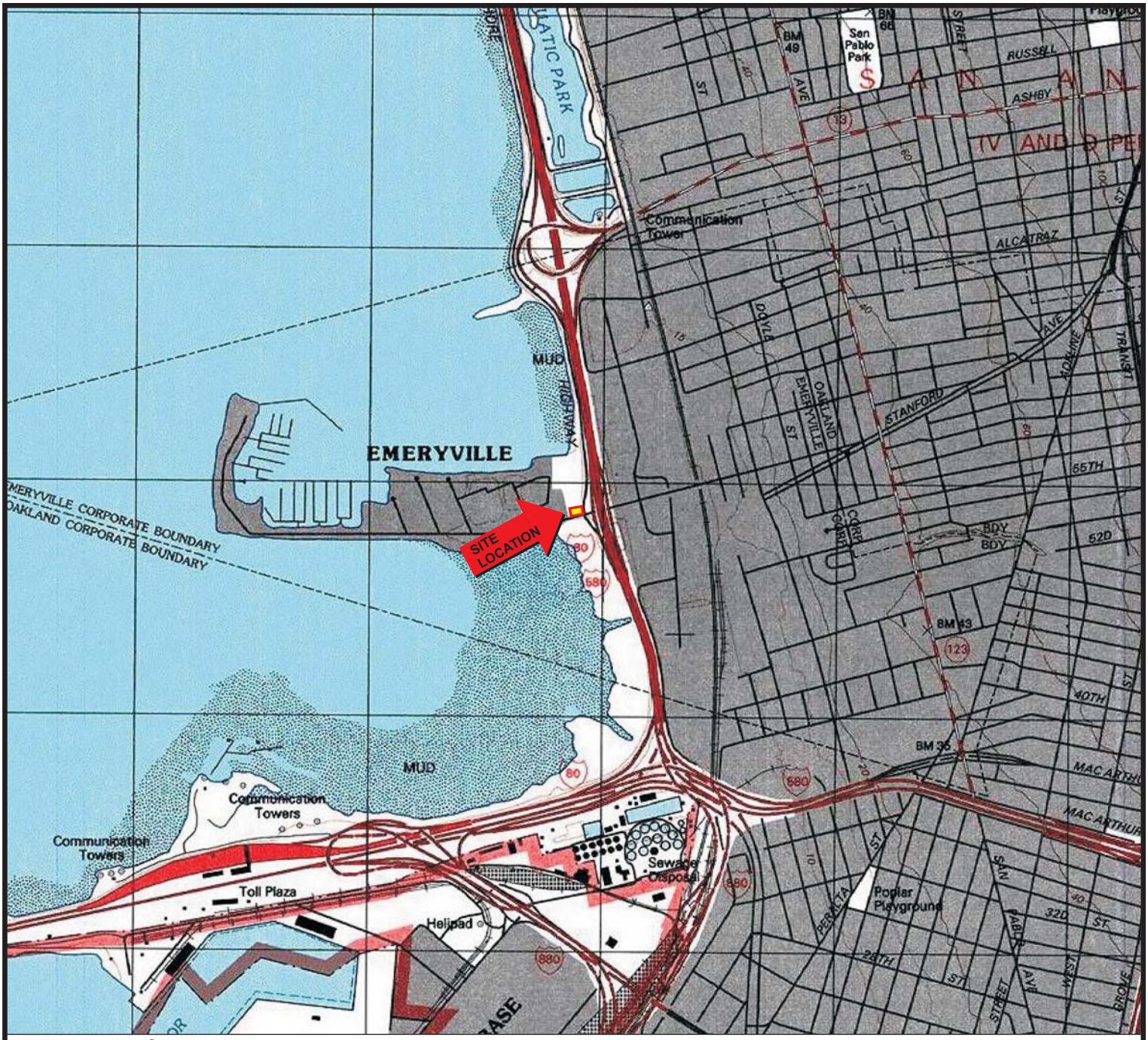
Analytical Method	Units	Sample ID and Date **BV-1** **15.5'** 9/30/2013	**BV-2** **11.5'** 9/30/2013	**BV-2** **13.5'** 9/30/2013	**BV-2** **15.5'** 9/30/2013	**BV-3** **11.5'** 9/30/2013	Waste Characteristics TTLC	Waste Characteristics 10 x STLC	Waste Characteristics 20 x TCLP
TPH (Extractable) - Method 8015									
Diesel Range Organics	mg/Kg	**410**	**1,100**	--	--	**24,000**	NE	NE	NE
Motor Oil Range Organics	mg/Kg	**2,100**	**4,100**	--	--	**52,000**	NE	NE	NE
VOCs									
Method 8260B									
Gasoline Range Organics	mg/Kg	**7,000**	**590**	--	--	**28,000**	NE	NE	NE
Benzene	*ug/Kg*	***17,000***	*<250*	--	--	***390,000***	NE	NE	10.0
Toluene	*ug/Kg*	***12,000***	***280***	--	--	***100,000***	NE	NE	NE
Ethylbenezene	*ug/Kg*	***150,000***	*<250*	--	--	***650,000***	NE	NE	NE
m,p-Xyelenes	*ug/Kg*	***480,000***	***2,200***	--	--	***2,500,000***	NE	NE	NE
o-Xylene	*ug/Kg*	***85,000***	***290***	--	--	***450,000***	NE	NE	NE
Isopropylbenzene	*ug/Kg*	***21,000***	***400***	--	--	***64,000***	NE	NE	NE
Propylbenzene	*ug/Kg*	***85,000***	***420***	--	--	***230,000***	NE	NE	NE
1,3,5-Trimethylbenzene	*ug/Kg*	***89,000***	***350***	--	--	***370,000***	NE	NE	NE
1,2,4-Trimethylbenzene	*ug/Kg*	***330,000***	***320***	--	--	***1,000,000***	NE	NE	NE
sec-Butylbenzene	*ug/Kg*	***8,500***	***420***	--	--	***26,000***	NE	NE	NE
para-Isopropyl Toluene	*ug/Kg*	***5,200***	*<250*	--	--	***17,000***	NE	NE	NE
n-Butylbenzene	*ug/Kg*	***35,000***	***740***	--	--	***100,000***	NE	NE	NE
Napththalene	*ug/Kg*	***46,000***	*<250*	--	--	***240,000***	NE	NE	NE
Other VOCs	*ug/Kg*	*ND*	*ND*	--	--	*ND*	NE	NE	NE
Method 8270C									
Naphthalene	*ug/Kg*	*<130*	*<130*	--	--	***350,000***	NE	NE	NE
2-Methylnaphthalene	*ug/Kg*	*<660*	*<1,700*	--	--	***350,000***	NE	NE	NE
Other SVOCs	*ug/Kg*	*ND*	*ND*	--	--	*ND*	NE	NE	NE

Table 1
Summary of Soil Analytical Results - TPH, VOCs, SVOCs and Metals
1800 1/2 Powell Street, Emeryville, CA

Analytical Method	Units	Sample ID and Date **BV-1** **15.5'** 9/30/2013	**BV-2** **11.5'** 9/30/2013	**BV-2** **13.5'** 9/30/2013	**BV-2** **15.5'** 9/30/2013	**BV-3** **11.5'** 9/30/2013	Waste Characteristics TTLC	Waste Characteristics 10 x STLC	Waste Characteristics 20 x TCLP
PCBs									
Method 8082									
Arochlor 1260	*ug/Kg*	**400**	<43	--	--	<83	50,000	50,000	NE
Other PCBs	*ug/Kg*	ND	ND	--	--	ND	NE	NE	NE
Total Metals (CAM 17) - 6010C-7470									
Antimony	mg/Kg	<0.47	<0.55	--	--	**8.5**	500	150	NE
Arsenic	mg/Kg	**8**	**3.1**	--	--	**7.0**	500	50.0	100.0
Barium	mg/Kg	**95**	**52**	--	--	**360**	10,000	1,000	2,000.0
Beryllium	mg/Kg	**0.11**	<0.11	--	--	<0.10	75	7.5	NE
Cadmium	mg/Kg	**0.57**	**5.10**	--	--	**4.10**	100.0	10.0	20.0
Chromium	mg/Kg	**22**	**41**	**10**	**97**	**3,400**	2500	50	100.0
Chromium - WET (STLC)	*ug/L*	--	--	***300***	***1,900***	--			
Chromium - TCLP	*ug/L*	--	--	***<50***	***<50***	--			
Cobalt	mg/Kg	**4.8**	**4.2**	--	--	**50**	8,000	800	NE
Copper	mg/Kg	**12**	**37**	--	--	**40**	2,500	250	NE
Lead	mg/Kg	**34**	**170**	**92**	**210**	**460**	1,000/350*	50.0	100.0
Lead - WET (STLC)	*ug/L*	--	--	***3,100***	***<250***	--			
Lead - TCLP	*ug/L*	--	--	***520***	***57***	--			
Mercury	mg/Kg	**0.44**	**0.20**	--	--	**0.63**	20	20	4.0
Molybdenum	mg/Kg	**0.57**	**1.8**	--	--	**1.3**	3,500	3,500	NE
Nickel	mg/Kg	**18**	**56**	--	--	**150**	2,000	200	NE
Selenium	mg/Kg	<0.47	<0.55	--	--	**0.51**	100.0	10.0	20.0
Silver	mg/Kg	<0.23	<0.27	--	--	**24**	500	50	100.0
Thallium	mg/Kg	<0.47	<0.55	--	--	<0.51	700.0	70.0	NE
Vanadium	mg/Kg	**17**	**7.7**	--	--	**7**	2,400	240	NE
Zinc	mg/Kg	**64**	**170**	--	--	**9,200**	5,000	2,500	NE

Legend
mg/Kg = Milligrams per kilogram
< 0.99 = Laboratory reporting limit as indicated
NA = Not analyzed
ND = Not detected, laboratory reporting level varies with each analyte
ESLs = Environmental Screening Levels, Calif. Regional Water Quality Control Board (RWQCB), May 2013, Table A - Shallow Soils
Note: Yellow hightlighting indicates detection that exceeds an ESL with the analyte ESL highlighted at the right of the table

FIGURES



Source: TOPO! © 2000 National Geographic Holdings

Note: Location Information is Approximate

1 0 1/2 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

Portion of the 7.5-Minute Series, Oakland West, California
Quadrangle Topographic Map (Datum: NAD 83)
United States Department of the Interior
Geological Survey
1997 Photorevised from 1993

N

CALIF

QUADRANGLE LOCATION

SITE LOCATION MAP	FIGURE
1800 ½ Powell Street Emeryville, California	1

BUREAU VERITAS

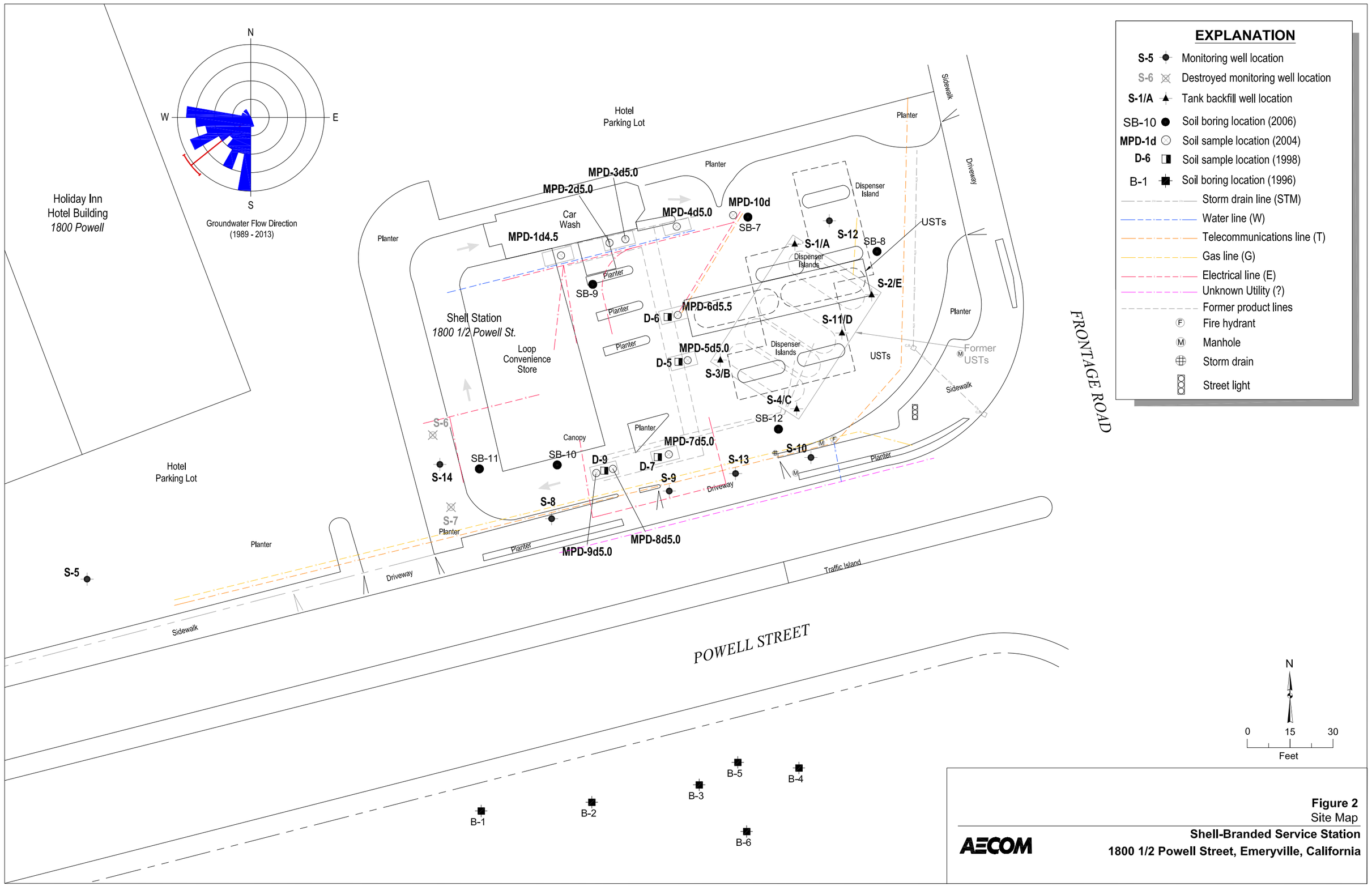


Figure 2
Site Map

AECOM

Shell-Branded Service Station
1800 1/2 Powell Street, Emeryville, California

Holiday Inn
Hotel Building
1800 Powell

Parking Lot

FRONTAGE ROAD

Shell Station
1800 1/2 Powell

Car Wash

Marketeer Building

USTs

Approximate Groundwater Flow Direction

parking lot

planter

trash encl.

canopy

service islands

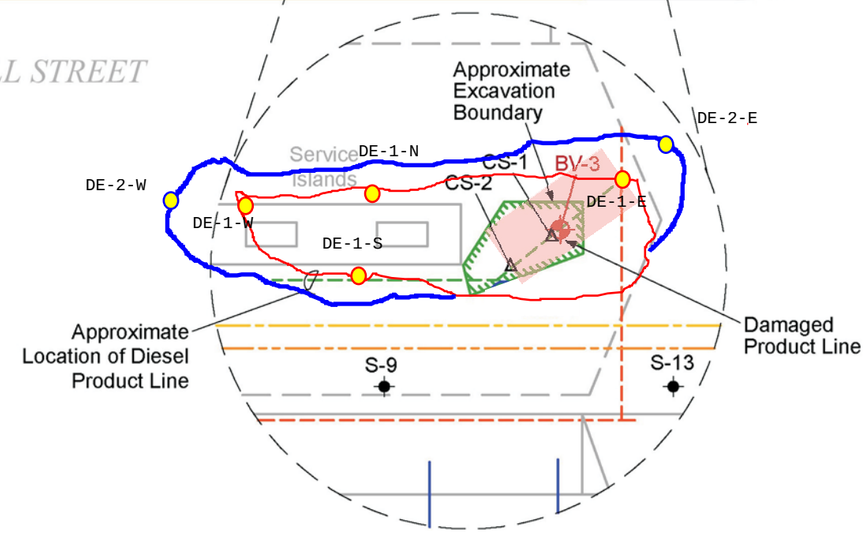
Air/ water

traffic island

POWELL STREET

0 30
SCALE: feet

REFERENCE: CAMBRIA, "SITE PLAN". DATED 6/2/2006.



EXPLANATION

- MPD-1 — Soil sample location (9/23/04)
- D-9 — Soil sample location (3/19/98)
- B-1 — Soil boring location (5/20/96)
- SB-7 — Soil boring location (4/18-19/06)
- S-5 — Monitoring well location
- S-6 — Destroyed monitoring well location
- S-1/A — Tank backfill well location
- Soil Boring Location (Bureau Veritas, 9/30/13)
- Proposed Extent of Excavation, Scoped 1:1 to Groundwater
- Soil Sample Location (Bureau Veritas, 10/4/13)
- Approximate Extent of Completed Excavations
- Electrical line (E)
- Storm drain line (SD)
- Water line (W)
- Gas line (G)
- Telecommunications line (T)
- Storm drain catch basin
- June 23, 2014 Sample - DE-1-S
- June 26, 2014 Sample - DE-2-S

Excavation Map

Shell-Branded Service Station
1800 ½ Powell Street
Emeryville, California

Project No. 33113-013181.00

FIGURE
3

BUREAU VERITAS

EXPLANATION

- Soil sample location (9/23/04)
- Soil sample location (3/19/98)
- Soil boring location (5/20/96)
- Soil boring location (4/18-19/06)
- Monitoring well location
- Destroyed monitoring well location
- Tank backfill well location
- Soil Boring Location (Bureau Veritas, 9/30/13)
- Electrical line (E)
- Storm drain line (SD)
- Water line (W)
- Gas line (G)
- Telecommunications line (T)
- Storm drain catch basin

Holiday Inn
Hotel Building
1800 Powell

parking lot

Shell Station
1800 1/2 Powell

Car Wash

Air/ water

Marketeer Building

Service islands

canopy

trash encl.

planter

traffic island

MPD-1 MPD-2 MPD-3 MPD-4 MPD-5 MPD-6 MPD-7 MPD-8 MPD-9 MPD-10

D-5 D-6 D-7 D-8 D-9

SB-7 SB-8 SB-9 SB-10 SB-11 SB-12

S-5 S-6 S-7 S-8 S-9 S-10 S-11/D S-12 S-13 S-14 S-3/B S-4/C

BV-1 BV-2 BV-3 BV-4

A A'

FRONTAGE ROAD

POWELL STREET

0 30

SCALE: feet

REFERENCE: CAMBRIA, "SITE PLAN". DATED 6/2/2006.

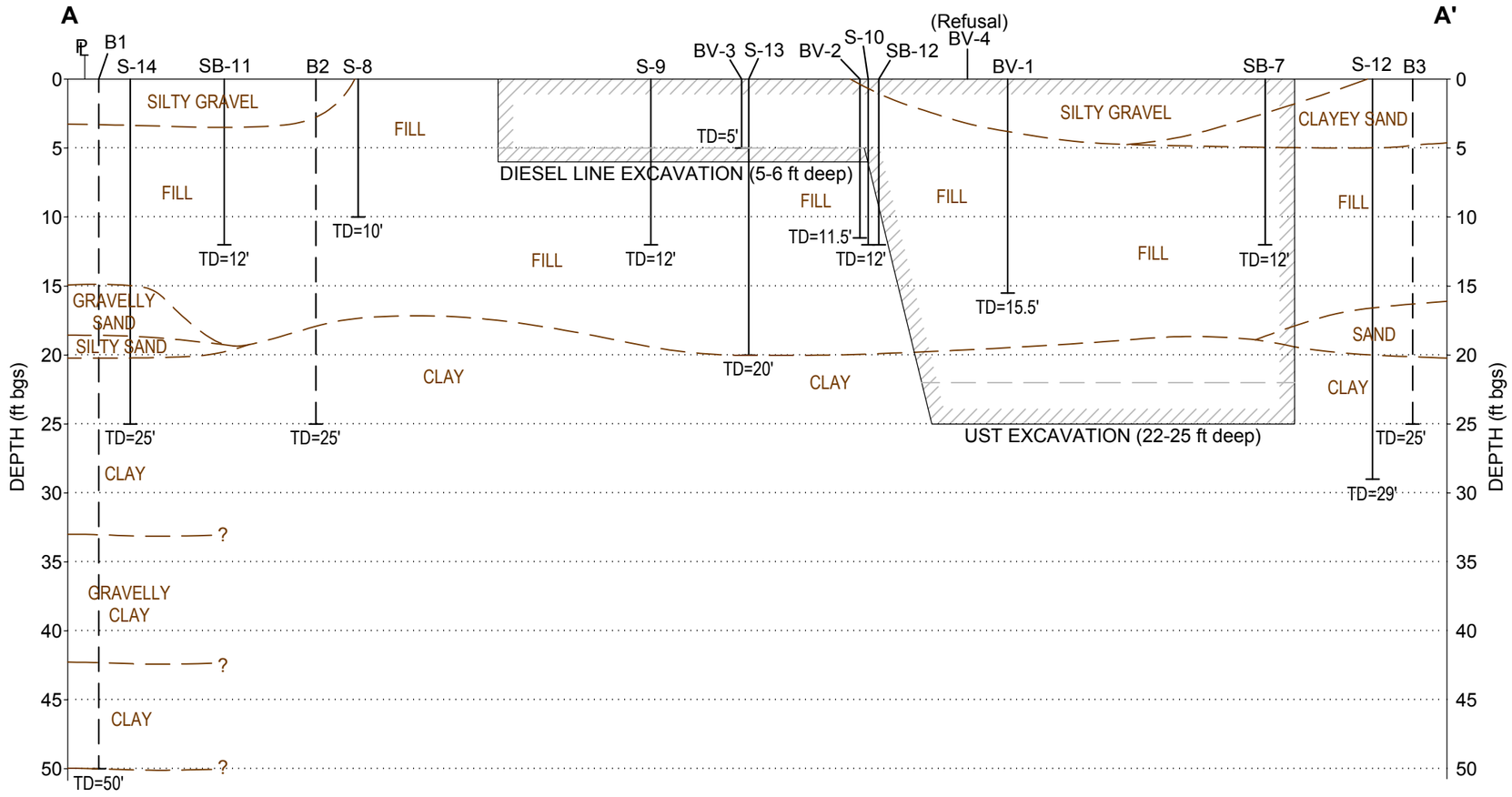
SITE PLAN SHOWING CROSS-SECTION LOCATION

SHELL-BRANDED SERVICE STATION
1800 1/2 POWELL STREET
EMERYVILLE, CALIFORNIA

Project No. 33113-013181.00

Figure
4
09/12/17
SITE0917.DWG

BUREAU VERITAS



0 20

SCALE: feet

GENERALIZED CROSS-SECTION A-A'

SHELL-BRANDED SERVICE STATION
1800 1/2 POWELL STREET
EMERYVILLE, CALIFORNIA

Project No. 33113-013181.00

Figure
5
09/12/17
SITE0917.DWG

BUREAU VERITAS

APPENDIX A

UNAUTHORIZED RELEASE FORM

UNDERGROUND STORAGE TANK (UST) SITE - UNAUTHORIZED RELEASE / CONTAMINATION REPORT

EMERGENCY ☐ Yes ☒ No

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ Yes ☐ No

REPORT DATE: October 2nd, 2013

CASE #:

FOR LOCAL AGENCY USE ONLY

I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFETY CODE.

SIGNED _____ DATE _____

REPORTED BY

NAME OF INDIVIDUAL FILING REPORT: John Ellis

PHONE: (510) 270-3418

SIGNATURE: John Ellis

REPRESENTING: ☐ LOCAL AGENCY ☐ REGIONAL BOARD ☒ OWNER/OPERATOR ☐ OTHER

COMPANY OR AGENCY NAME: Au Energy, LLC.

ADDRESS: 41805 Albrae Street (STREET) Fremont (CITY) CA (STATE) 94538 (ZIP)

RESPONSIBLE PARTY

NAME: Bureau Veritas ☐ Unknown

CONTACT PERSON: John Werfal

PHONE: (925) 426-2629

ADDRESS: 2430 Camino Ramon, Suite 122 (STREET) San Ramon (CITY) Ca (STATE) 94583 (ZIP)

SITE LOCATION

FACILITY NAME (IF APPLICABLE): Powell Street Shell

OPERATOR: Au Energy, LLC.

PHONE: (510) 653-1800

ADDRESS: 1800 Powell Street (STREET) Emeryville (CITY) Alameda (COUNTY) 94608 (ZIP)

CROSS STREET:

IMPLEMENTING AGENCIES

LOCAL AGENCY AGENCY NAME: PHONE ( )

REGIONAL BOARD: PHONE ( )

SUBSTANCES INVOLVED

(1) NAME: Diesel QUANTITY LOST (GALLONS): 500 gallon ☐ Unknown

(2) ☐ Unknown

DISCOVERY/ABATEMENT

DATE DISCOVERED: 10/1/2013

HOW DISCOVERED: ☐ Tank Test ☐ Tank Removal ☒ Nuisance Conditions ☐ Inventory Control ☐ Subsurface Monitoring ☐ Other

DATE DISCHARGE BEGAN: 9/30/2013 ☐ Unknown

HAS DISCHARGE BEEN STOPPED? ☒ Yes ☐ No IF YES, DATE

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
☐ Remove Contents ☐ Close Tank
☐ Repair Tank ☐ Change Procedure
☐ Replace Tank ☐ Other
☒ Repair Piping

SOURCE/CAUSE

SOURCE OF DISCHARGE
☐ Tank ☒ Piping ☐ Dispenser ☐ Delivery Problem
☐ Submersible Turbine Pump (STP) ☐ Other

CAUSE(S)
☐ Spill ☐ Overfill ☒ Physical/Mechanical Damage ☐ Corrosion
☐ Installation Problem ☐ Unknown ☐ Other

CASE TYPE

CHECK ONE ONLY
☒ Undetermined ☐ Soil Only ☐ Groundwater ☐ Drinking Water – (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS

CHECK ONE ONLY
☐ Open - Site Assessment
☐ Open - Assessment & Interim Remedial Action
☐ Open - Remediation
☐ Open - Verification Monitoring
☐ Open - Inactive
☐ Closed – No Further Action Required

REMEDIAL ACTION

CHECK APPROPRIATE ACTION(S)
Human health exposure control? ☐ Yes ☐ No ☐ Unknown
Groundwater migration control? ☐ Yes ☐ No ☐ Unknown

☐ No Action Required (NAR)
☐ Excavate & Dispose (ED)
☒ Excavate & Treat (ET)
☒ Free Product Removal (FPR)
☐ Treatment at Hookup (TH)
☐ Replace Supply (RS)
☐ Other

COMMENTS

Instructions for Completing UST Unauthorized Release (Leak) / Contamination Site Report

EMERGENCY: Indicate whether emergency response personnel and equipment were involved at any time. If so, a Hazardous Material Incident Report should be filed with the State Office of Emergency Services (OES). Indicate whether the OES report has been filed as of the date of this report.

LOCAL AGENCY USE ONLY: To avoid duplicate notifications pursuant to Health and safety Code Section 25180.7, a designated government employee should sign and date the form in this block. A signature here does not mean that the leak has been determined to pose a significant threat to human health or safety, only that notification procedures have been followed if required.

REPORTED BY: Enter name, telephone number, and address. Indicate which party you represent and provide company or agency name.

SIGNATURE: Sign the form in the space provided.

RESPONSIBLE PARTY: Enter the name, telephone number, contact person, and address of the party responsible for the leak. The Responsible Party would normally be the tank owner.

SITE LOCATION: Enter information regarding the tank facility. At a minimum, you must provide the facility name and full site address.

IMPLEMENTING AGENCIES: Enter the names of the local agency and Regional Water Quality Control Board having jurisdiction over the site.

SUBSTANCES INVOLVED: Enter the name and quantity lost of the hazardous substance(s) involved. If more than two substances leaked, list the two of most concern for cleanup.

DISCOVERY/ABATEMENT: Provide information regarding the discovery and abatement of the leak.

SOURCE: Indicate the source(s) of the leak. Check sourc(es) that apply.

CAUSE: Check box(es) that apply. Only use "other" when the release source is known, but does not fit into any of the other categories. For example releases from vent and vapor recovery lines.

CASE TYPE: Check one box only. Indicate the Case Type category for this leak. Case Type is based on the most sensitive resource affected. For example, if both soil and ground water have been affected, Case Type will be "Groundwater." Indicate "Drinking Water" only if one or more municipal or domestic water wells have actually been affected. A "Groundwater" designation does not imply that the affected water cannot be, or is not, used for drinking water, but only that water wells have not yet been affected. It is understood that Case Type may change upon further investigation.

CURRENT STATUS: Check one box only. Indicate the category which best describes the Current Status of the case. The response should be relative to the Case Type. For example, if the Case Type is "Groundwater," then Current Status should refer to the status of the ground water investigation or cleanup, as opposed to that of soil. Descriptions of options are as follows:

- **Open- Site Assessment –** An investigation to determine whether groundwater and/or soil have/has been, or will be, impacted as a result of the release.
- **Open- Assessment & Interim Remedial Action –** An investigation to determine whether groundwater and/or soil have/has been, or will be, impacted as a result of the release and appropriate actions to prevent or address an immediate threat to human health or the environment.
- **Open- Remediation –** Remedial activities to prevent or address a threat to human health or the environment as a result of the release.
- **Open- Verification Monitoring –** Periodic groundwater or other monitoring at the site to verify and/or evaluate the effectiveness of remedial activities.
- **Open- Inactive –** No activities have been implemented to determine whether groundwater and/or soil were/was impacted by the release.
- **Closed- No Further Action Required –** Regional Water Quality Control Board and local agency Local Oversight Program agree that no further work is necessary at the site.

IMPORTANT: THE INFORMATION PROVIDED ON THIS FORM IS INTENDED FOR GENERAL STATISTICAL PURPOSES ONLY AND IS NOT TO BE CONSTRUED AS REPRESENTING THE OFFICIAL POSITION OF ANY GOVERNMENTAL AGENCY.

REMEDIAL ACTION: Indicate which actions have been used to clean up or remediate the leak. Descriptions of options are as follows:

- **Human health exposure control? Yes –** Assessments for human exposures indicate there are no unacceptable human exposure pathways and the Regional Water Quality Control Board or other regulatory agency staff has determined the site is under control for current conditions.
- **Human health exposure control? No –** Data indicate that there are complete human exposures pathways that present unacceptable exposures to humans, and actions have yet to be completed to address these human exposure pathways for the entire site.
- **Human health exposure control? Unknown –** There is not sufficient information to determine whether there are any current, complete unacceptable human exposure pathways at the site.
- **Groundwater migration control? Yes –** All information on known and reasonably expected groundwater contamination has been reviewed and that the migration of contaminated groundwater is stabilized and there is no unacceptable discharge to surface water and monitoring will be conducted to confirm that affected groundwater remains in the original area of contamination.
- **Groundwater migration control? No –** All information on known and reasonably expected groundwater contamination has been reviewed and that the migration of contaminated groundwater is not stabilized.
- **Groundwater migration control? Unknown –** There is not sufficient information to determine whether the migration of contaminated groundwater is stabilized.
- **No Action Required (NAR) –** Incident is minor, requiring no remedial action.
- **Excavate and Dispose (ED) –** Remove contaminated soil and dispose at approved facility.
- **Excavate and Treat (ET) –** Remove contaminated soil and treat (includes spreading or land farming).
- **Free Product Removal (FPR) –** Remove floating product from water table.
- **Treatment at Hookup (TH) –** Install water treatment devices at each dwelling or other place of use.
- **Replace Supply (RS) –** Provide alternate water supply to affected parties.
- **Other –** Other remedial actions that are not listed above.

COMMENTS: Use this space to elaborate on any aspects of the incident.

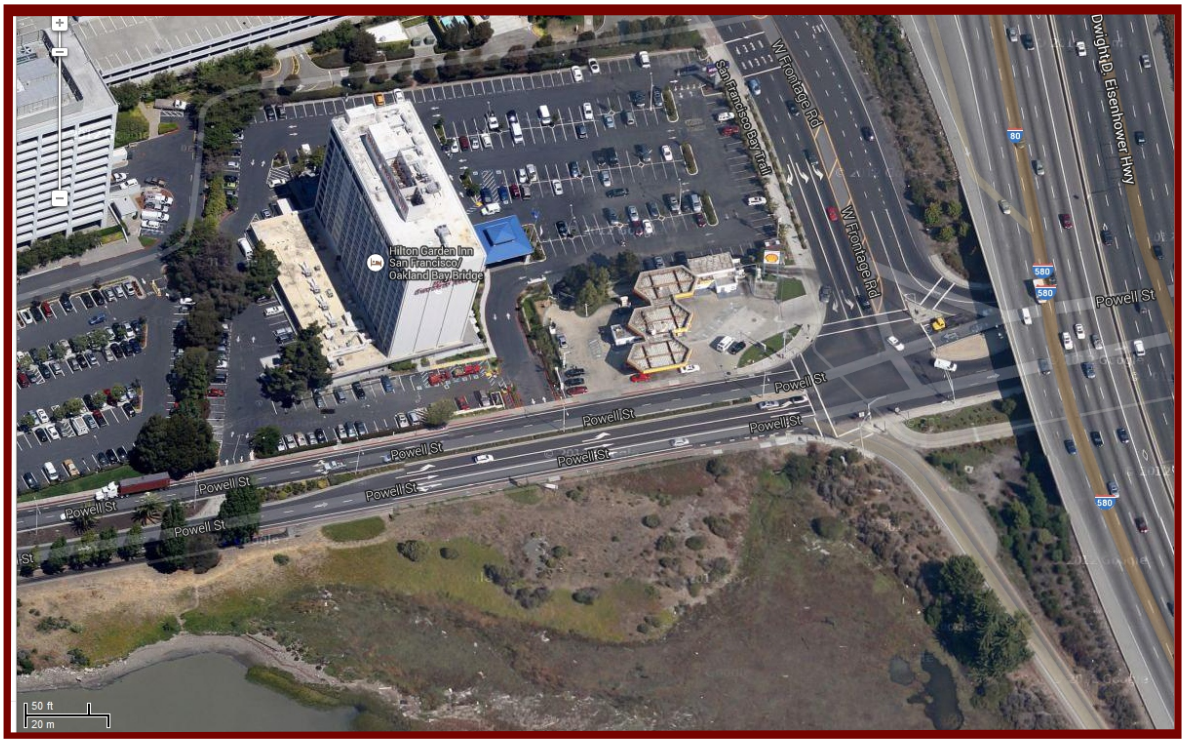
DISTRIBUTION: If this form is completed by the tank owner or his/her agent, retain a copy and forward the original to your local tank permitting agency for distribution.

- Original – Local UST permitting agency. (Agency contact information is available at http://www.calcupa.net/services/directory/search.asp.)
- Copy – Regional Water Quality Control Board. (Boundaries and contact information are available at http://www.waterboards.ca.gov/waterboards_map.shtml.)
- Copy – Local Oversight Program (LOP) agency. (Agency contact information is available at http://www.waterboards.ca.gov/water_issues/programs/ust/contacts/lop.shtml.)
- Copy – Local Health Officer and County Board of Supervisors or their designee to receive Proposition 65 notifications.
- Copy – Owner/Responsible Party.

APPENDIX B

GEOTECHNICAL INVESTIGATION REPORT

REPORT
GEOTECHNICAL ENGINEERING INVESTIGATION
PROPOSED SHELL GAS STATION, FUELING CANOPY
CONVENIENCE STORE AND CAR WASH
1800 POWELL STREET
EMERYVILLE, CALIFORNIA



for

A. U. ENERGY, LLC

December 2013

BAGG Engineers, copyright October 2013

December 6, 2013
BAGG Job No: GOYAL-14-00

Mr. Nick Goyal
AU Energy, LLC
41805 Albrae Street, 2nd Floor
Fremont, California 94538

Geotechnical Engineering Investigation
Proposed Shell Gas Station Fueling Canopy,
Convenience Store and Car Wash
1800 Powell Street
Emeryville, California

Dear Mr. Goyal:

Transmitted herewith is our geotechnical engineering investigation report for the proposed Shell gas station fueling canopy, convenience store, and car wash at 1800 Powell Street, in Emeryville, California. This report includes the results of our subsurface exploration and laboratory testing, which formed the basis of our conclusions, and presents recommendations related to the geotechnical engineering aspects of the proposed project.

We thank you for the opportunity to perform these services. Please do not hesitate to contact us, should you have any questions or comments.

Very truly yours,
BAGG Engineers

REGISTERED PROFESSIONAL ENGINEER
AJAY SINGH
No. 0053647
06/15
CIVIL
STATE OF CALIFORNIA

Ajay Singh
Senior Engineer

REGISTERED PROFESSIONAL ENGINEER
JASON VAN ZWOL
No. 854
Exp. 6/30/14
GEOTECHNICAL
STATE OF CALIFORNIA

Jason Van Zwol
Principal Engineer

AS/JVZ
Distribution: 4 copies to addressee

REPORT

GEOTECHNICAL ENGINEERING INVESTIGATION
PROPOSED SHELL GAS STATION FUELING CANOPY,
CONVENIENCE STORE AND CAR WASH
1800 POWELL STREET
EMERYVILLE, CALIFORNIA

For AU ENERGY, LLC

TABLE OF CONTENTS

1.0 INTRODUCTION 2

2.0 SITE DESCRIPTION 2

3.0 PROJECT DESCRIPTION 3

4.0 PURPOSE AND SCOPE OF SERVICES 3

5.0 FIELD EXPLORATION AND LABORATORY TESTING 5

6.0 GEOLOGY AND SEISMICITY 6
6.1 Regional & Site Geology 6
6.2 Site History 6
6.3 Seismic Setting 7
6.4 Liquefaction Potential Evaluation 7
6.5 Liquefaction-Induced Lateral Spreading 8

7.0 SUBSURFACE CONDITIONS 8

8.0 CONCLUSIONS AND RECOMMENDATIONS 9
8.1 General 9
8.2 Site Grading 10
8.3 2010 California Building Code Site Characterization 11
8.4 Foundations 12
8.4.1 Convenience Store and Car Wash Buildings 12
8.4.2 Fueling Canopy Structure 12
8.5 Slabs-on-Grade and Exterior Flatwork 14
8.6 Flexible Pavements 14
8.7 Rigid Pavement 15
8.8 Drainage 16
8.9 Trench Backfill 16
8.10 Plan Review 17
8.11 Observation and Testing 17

BAGG ENGINEERS

9.0 CLOSURE.....17

10.0 REFERENCES 18

Attached Plates:

Plate 1	Vicinity Map
Plate 2	Site Plan
Plate 3	Regional Geologic Map
Plate 4	Regional Fault Map
Plate 5	Unified Soil Classification System
Plate 6	Soil Terminology
Plate 7-A and 7-B	Key to Symbols
Plates 8 through 10	Boring Logs
Plate 11	Atterberg Limits Test Results

ASFE document titled “Important Information About Your Geotechnical Engineering Report”

REPORT

GEOTECHNICAL ENGINEERING INVESTIGATION
PROPOSED SHELL GAS STATION FUELING CANOPY
CONVENIENCE STORE AND CAR WASH
1800 POWELL STREET
EMERYVILLE, CALIFORNIA

For AU ENERGY, LLC

1.0 INTRODUCTION

This report presents the results of our geotechnical engineering investigation performed for the proposed Shell gas station fueling canopy, convenience store, and car wash at 1800 Powell Street in Emeryville, California. The attached Plate 1, Vicinity Map, shows the general location of the site. Plate 2, Site Plan, shows the proposed development including the location of the convenience store building, fueling canopy, car wash, and other site improvements. The Site Plan also shows the location of the exploratory borings advanced on the site under the direction of BAGG as a part of this investigation. This report was prepared in accordance with the scope of services outlined in our updated Proposal Number 13-345, dated July 23, 2013.

2.0 SITE DESCRIPTION

The site area is currently an operating Shell gasoline dispensing station with a food mart building at the northwest quadrant of the Powell Street and Eastshore Freeway Frontage Road crossing in Emeryville, California. The site is roughly rectangular in shape and extends approximately 192 feet in the direction perpendicular to Frontage Road and 120 feet in the direction perpendicular to Powell Street; however, the corner of the Powell Street and Frontage Road is rounded. The site elevations vary from approximately 12.3 feet near the Frontage Road to 13.5 feet in the northwest corner. The flat portion of ground adjacent to the site extends to the southern limit of Powell Street and then the ground surface slopes at about 3 percent towards the San Francisco Bay.

The site contains an existing fueling canopy with the longer axis of the canopy aligned in the northeast-southwest direction in roughly the middle portion of the project. A carwash building is in the northeast portion of the property and the existing underground fuel tanks are located near the southeast corner of the site. A small grass covered landscape area also exists in the southeastern corner of the property. The entire site is paved with asphaltic concrete or concrete slab with the exception of minor landscape areas.

At the time of our subsurface exploration, we noticed minor cracking of the concrete driveways, with the exception of localized areas where reinforcing steel was visible because the concrete cover on top of the reinforcing steel had spalled off. The concrete walkway around the attendant's kiosk exhibited larger and more prominent cracks. We did not notice any area within the site, or the sidewalks and the streets around the site, with surface cracking pattern indicative of localized settlement.

3.0 PROJECT DESCRIPTION

It is our understanding that the current plan is to demolish the existing canopy structure, the small convenience store building and the carwash facility and construct a larger convenience store building, a new canopy building at another location on-site and a new car wash building. The new convenience store building will be 2,569 square feet in area. The existing underground fuel storage tanks will be removed and the excavation will be backfilled with engineered fill. Two new 10,000 gallons will be installed in a new excavation very close to the location of the existing tanks. The new tanks will be installed in approximately 17 feet deep excavations. The proposed site development plans are shown on the attached Plate 2, Site Plan.

4.0 PURPOSE AND SCOPE OF SERVICES

The purpose of our services has been to obtain pertinent information regarding subsurface soil and groundwater conditions at the location of the proposed building and improvements. This was accomplished by drilling three borings with a truck-mounted drill rig equipped with hollow stem augers. One of the boring was drilled to 50 feet bgs whereas the other two borings were drilled to 25 feet each. Soil samples were obtained from the borings at 3- to 5-foot intervals, and a laboratory testing program was performed to evaluate the engineering characteristics of the collected soil samples. Information obtained from these tasks was used to perform engineering analysis required to develop conclusions, opinions, and recommendations regarding:

- Site seismicity, including appropriate soil profile type and parameters for seismic design per the 2010 Edition of the California Building Code (CBC),

- Specific soil and groundwater conditions discovered by our borings, such as loose, expansive, saturated, or collapsible soils, that may require special mitigation or impose restrictions on the project, including the thickness and consistency of any fill soils encountered at the site,

- Criteria for design of the proposed building and canopy foundations,
- Estimates of total and differential static settlements for anticipated structural loads,
- Evaluation of liquefaction potential and liquefaction related settlement at the site,
- Evaluation of liquefaction related lateral spreading and estimation of potential lateral displacement during a design level seismic event,
- criteria for site grading, including placement of engineered fills, backfills in utility trenches, and preparation of subgrades for slabs and pavements,
- general provisions for surface and subsurface drainage on the site.

Based on our understanding of the project, the scope of our services consisted of the following specific tasks:

1. Research and review site history, and pertinent geotechnical and geological maps and reports relevant to the site and vicinity.

2. Mark the boring locations at the site at least 72 hours in advance of the subsurface exploration, and notify Underground Service Alert to mark utility lines on or entering the site.

3. Obtain the required drilling permit from the Alameda County Public Works Department.

4. Drill, log, and sample three exploratory borings: one to 50 feet and the other two to 25 feet below the ground surface (bgs). The soil borings were drilled using a truck mounted drilling rig equipped with 8 inch diameter hollow stem augers. The borings were drilled under the technical direction of one of our engineers, who also obtained Standard Penetration Test, and relatively undisturbed ring samples of the native soils for visual classification and laboratory testing. Following the completion of the drilling and soil sampling, the borings were sealed with neat cement grout per standard protocol, and the drill cuttings were left on site.

5. Perform a laboratory testing program on the collected soil samples to evaluate the engineering characteristics of the subsurface soils. Tests included direct shear and Atterberg Limits testing, and moisture-density measurements, as judged appropriate.

6. Based on information obtained from the above tasks, perform engineering analyses oriented toward the above-described purpose of the investigation.

7. Prepare four hard copies and one electronic copy of a report summarizing our findings and including a vicinity map, a site plan showing the approximate location of the exploratory borings, a vicinity geologic map, a regional fault map, the logs of the borings, the results of the laboratory testing, and our conclusions, opinions, and recommendations for design and construction of the project.

5.0 FIELD EXPLORATION AND LABORATORY TESTING

We explored the subsurface conditions at the site by drilling three exploratory borings: 1 to 50 feet and the other two to 25 feet below ground surface (bgs). The soil borings were drilled using a truck-mounted drilling rig equipped with 8-inch diameter hollow stem augers. One of our engineers technically directed the exploration, maintained a continuous log of the borings, and obtained relatively undisturbed ring samples for laboratory testing and visual examination.

The graphical representation of the materials encountered in the borings, and the results of laboratory tests as well as explanatory/illustrative data are attached, as follows:

- Plate 5, Unified Soil Classification System, illustrates the general features of the soil classification system used on the boring logs.

- Plate 6, Soil Terminology, lists and describes the soil engineering terms used on the boring logs.

- Plate 7-A and 7-B, Key to Symbols, describes general terms and symbols used in the boring logs.

- Plates 8, through 10, Boring Logs, describe the subsurface materials encountered, show the depths and blow counts for the samples, and summarize the results of the laboratory tests.

- Plate 11, presents consolidation characteristics of the soft clayey soils present below the fill material present at the site.

Selected undisturbed samples were tested in direct shear to evaluate the strength characteristics of the subsurface materials. Direct shear tests were performed at natural (field) and at artificially increased moisture contents and under various surcharge pressures. The moisture content and dry density of undisturbed samples were measured to aid in correlating their engineering properties. The consolidation test was performed to estimate the pre-

consolidation pressure, and to measure the consolidation characteristics in the virgin compression zone and the rebound zone. The results of our tests are summarized on the boring logs.

6.0 GEOLOGY AND SEISMICITY

6.1 Regional & Site Geology

The site and the San Francisco Bay Area lie within the Coast Ranges geomorphic province, a series of discontinuous northwest trending mountain ranges, ridges, and intervening valleys characterized by complex folding and faulting. The general geologic framework of the San Francisco Bay Area is illustrated in studies by Schlocker (1970), Helley et al. (1979), Wagner et al. (1991), Chin et al. (1994), Ellen and Wentworth (1995), Helley and Graymer et al. (1997), and Graymer (2000).

The portion of Helley and Graymer's map (1997) that covers the site area is included herein as Plate 3, Regional Geologic map. A review of the geologic map of the site vicinity (Seismic Hazard Zones Report 081) indicates that the site is underlain by artificial fill over Bay Mud (afbm). Bay Mud generally consists of soft, compressible, saturated, and soft Fat Clay. These soils could undergo excessive settlements under loads greater than the pre-consolidation pressures, where pre-consolidation pressure is the maximum pressure that the clayey soils have previously experienced.

The Seismic Hazards Zone map for Oakland West Quadrangle published by the State of California, dated February 14, 2003 indicates that the subject site is located within the area delineated as "Liquefaction Zone". The historical high depth to water table is estimated to be less than 5 feet below ground surface. Therefore, as a part of our geotechnical engineering investigation BAGG evaluated the liquefaction potential at the site and performed engineering analysis to estimate liquefaction-related seismic settlement. The liquefaction analysis was based on the subsurface data collected from three borings on the site including one 50 foot deep boring B-1, and the results of laboratory tests performed on the soil samples obtained from subject borings.

6.2 Site History

Bureau Veritas performed a Phase I Site Investigation for the subject site, and as a part of their investigation they identified obvious subject property uses form the present back to 1939,

when the subject property was covered by waters of the San Francisco Bay. By the late 1950s, the area of the subject property had been filled in with soil, industrial waste, and construction debris by Paraffine Company, which operated an industrial complex along the Emeryville waterfront from around 1884 until the late 1960s. The subject property remained vacant and appeared to be used for dumping until around 1970, when it was developed with a gasoline station. The original gas station included a building on the northern portion of the subject property, with a canopy and four dispensers on the southern portion. The original tank pit contained one 10,000-gallon and one 8,000-gallon UST, and was located at the northeastern corner of the subject property. A 550-gallon waste oil tank was also located on the subject property. Based on the presence of the waste oil tank, vehicle service appears to have been conducted at the subject property from 1970 to 1988, when the subject property was developed in its current configuration consisting of nine dispensers, car wash, and an attendant's kiosk. In 1980, three 10,000-gallon USTs were installed at the southeastern corner of the subject property; a fourth 10,000-gallon UST was installed in 1984. The dispensers were last upgraded in 2004. Adjoining properties to the north, west, and south were part of the San Francisco Bay until being filled in the late 1950s. With the exception of Frontage Road and Interstate Highway 580 to the east, adjoining sites remained vacant until construction of the Holiday Inn and associated parking lot on the western and northern sites by 1980.

6.3 Seismic Setting

The site area as is the entire San Francisco Bay Area is considered to be an active seismic region due to the presence of several active earthquake faults. Three, northwest-trending major earthquake faults that comprise the San Andreas fault system extend through the Bay Area. They include the San Andreas fault, the Hayward fault, and the Calaveras fault, which are respectively located 25 km to the southwest, 5.5 km to the east, and 22.6 km to the east-southeast. Plate 4 shows the location of the site relative to known quaternary faults in the San Francisco Bay Area.

6.4 Liquefaction Potential Evaluation

Soil liquefaction is a condition where saturated granular soils near the ground surface undergo a substantial loss of strength due to increased pore water pressure resulting from cyclic stress applications induced by earthquake or other vibrations. In the process, the soil acquires mobility sufficient to permit both vertical and horizontal movements, if not confined. Soils most susceptible to liquefaction are loose, uniformly-graded, fine-grained, sands, and loose silts with very low cohesion.

Boring B-1 revealed the presence of gravelly sand with about 9 percent fines between 15½ feet to 18½ feet followed by silty sand with 17 percent fines to 20 feet. Boring B-2 revealed the presence of clayey sand between 18½ feet and 20½ feet, which contained approximately 28 percent fines. Boring B-3 revealed the presence of 4½ feet of silty sand with approximately 12 percent fines between 16 and 20½ feet bgs. Even though these layers were interpreted to be medium dense based on the penetration resistance data, our engineering analysis indicated that both of these layers are susceptible to liquefaction during a design level seismic event. The liquefaction potential evaluation performed using the methodology suggested by Idriss and Boulanger (1998) indicated that seismic settlement during a design level event will be on the order of 1 to 1½ inches.

6.5 Liquefaction-Induced Lateral Spreading

Liquefaction-induced lateral spreading is defined as the finite, lateral displacement of gently sloping ground as a result of pore pressure build-up or liquefaction in a shallow underlying deposit during an earthquake. As described by Bartlett and Youd (1992a; 1992b), liquefaction-induced lateral spreading occurs on mild slopes of 0.3 to 5% underlain by loose sands and a shallow water table. Such soil deposits are prone to pore pressure generation, softening, and liquefaction during large earthquakes. If liquefaction occurs, the unsaturated overburden soil can slide as intact blocks over the lower, liquefied deposits. The geologic conditions conducive to lateral spreading (gentle surface slope, shallow water table, and liquefiable cohesionless soils) are frequently found along streams and other waterfronts in recent alluvial or deltaic deposits, as well as in loosely-placed, saturated sandy fills (Youd and Hoose, 1976).

The site is located approximately 400 feet from the San Francisco Bay and has an approximate elevation of 13 feet. Using our laboratory data and the methodology suggested by Youd, Hansen, and Bartlett (2002) the liquefaction-induced lateral spreading was estimated to be approximately 5 feet. This, however, assumes the sandy layers encountered in B-1 and B-3 are continuous over 400 feet to the southwest and the bay, which may not be the case.

7.0 SUBSURFACE CONDITIONS

The soil borings drilled at the site indicated the presence of 3 to 4 feet of soil consisting of a random mixture of clay, silt, sand, and gravel (import fill) over approximately 12 feet of debris-ladden fill material consisting of roofing shingles, rubber, glass, and metal debris mixed with clayey soil. This fill material was underlain by approximately 3 feet of gravelly sand at the

location of Boring B-1, 4½ feet of sand at B-3, and 5½ feet of fat clay followed by clayey sand at B-2. Boring B-1 revealed the presence of grayish black, soft fat clay between 20 to 28½ feet and olive gray, very stiff lean/fat clay to 33½ feet. Very stiff to medium dense gravelly clay to clayey gravel was encountered to a depth of 46½ feet, which was underlain by very stiff fat clay to the maximum depth of drilling.

Even though the fill material between 3 to 16 feet contained significant amounts of debris, the drilling and penetration resistance data indicates that this fill material is stiff to medium dense. A review of the site history indicates that this fill material has been present at the site since the 1950's. The fill material encountered in our soil borings did not appear to consist of material that would lose substantial volume due to decomposition.

The site is located adjacent to San Francisco Bay with a ground surface elevation of approximately 13 feet. Even though groundwater was encountered at about 15 feet bgs in the soil borings, the depth to groundwater should be assumed to be 5 feet bgs (reported historical high). Due to the close proximity of the site to San Francisco Bay, the depth to groundwater will likely fluctuate with tidal elevations.

8.0 CONCLUSIONS AND RECOMMENDATIONS

8.1 General

Based on the subsurface exploration conducted at the subject site and the results obtained from our laboratory testing program, it is our opinion that the proposed project is feasible from a geotechnical engineering standpoint, provided the recommendations presented in this report are incorporated into the project design and implemented during construction. When the final development plans are available, they should be reviewed by this office prior to construction to confirm that the intent of our recommendations is reflected in the plans, and to confirm that our recommendations properly address the proposed project in its final form.

Based on the results of our subsurface exploration and laboratory testing, it is our opinion that the proposed convenience store building and the carwash facility loads can be adequately supported on a concrete mat slab. The fueling canopy loads can be adequately supported on conventional spread footings connected with grade beams or drilled, cast-in-place, reinforced concrete piers, also connected with grade beams. Our recommendations for site grading, site characterization and seismic design, foundations, slabs-on-grade, flexible and rigid pavements, drainage, and utility trench backfill are presented below.

8.2 Site Grading

Site grading is anticipated to consist of minor cuts and fills as required to maintain positive drainage away from the new structures. The grading procedures listed below should be followed in areas to receive fill, pavements, concrete slabs, or flatwork:

- Areas to receive fill should be stripped of existing improvements. The exposed subgrades should be scarified to depths of 6 to 8 inches, moisture conditioned to a moisture content this is slightly above the optimum moisture content, and compacted to a minimum of 90 percent relative compaction based on ASTM D1557. In the slab and pavement areas, the top 12-inches of subgrade and the aggregate baserock should be compacted to a minimum of 95 percent relative compaction. Further over-excavate as necessary any area still containing weak or unsuitable material, as determined in the field by the Geotechnical Engineer.

- Place fill on the prepared surfaces created by the above actions in uniformly moisture conditioned and compacted lifts not exceeding 8 inches in loose thickness. Rocks or cobbles larger than 3 inches in maximum dimensions should not be allowed to remain within the foundation areas, unless they can be crushed in-place by the construction equipment. Imported fill material and on-site soils should be compacted as specified above.

- The portions of the excavations below the water table should be backfilled with ¾-inch minus baserock compacted in place using a vibratory plate. On-site fill material is quite variable in nature and is not likely to be suitable for engineered fill because of the presence of debris and organics. The suitability of the on-site material as engineered fill should be evaluated by the project geotechnical engineer or his representative prior to placement.

- Imported non-expansive fill soils should be predominantly granular in nature and be approved by the Geotechnical Engineer before importing to the site. As a general guide to acceptance, the material should have a Plasticity Index less than 15, a minimum R-value of 15, be free of rock fragments greater than 3 inches in diameter and contain enough fines to allow for stable trench and foundation excavations.

All aspects of site grading including clearing/stripping and placement of fills or backfills should be performed under the observation of BAGG's field representatives. It must be the Contractor's responsibility to select equipment and procedures that will accomplish the grading as described above. The Contractor must also organize his work in such a manner that one of

our field representatives can observe and test the grading operations, including clearing, excavation, compaction of fill and backfill, and compaction of subgrades.

The site grading contractor should anticipate encountering groundwater in the new tank excavation and should also be prepared to handle saturated soils as shallow as 5 feet below the ground surface. Also, it is possible the water accumulated in the tank excavation area may have to be treated prior to disposal.

8.3 2010 California Building Code Site Characterization

The Structural Engineering Design Provisions in Chapter 16 of the 2010 California Building Code (CBC) have recently been revised to reflect the changing knowledge regarding earthquake shaking from major earthquakes. The new code uses mapped spectral acceleration values for periods of 0.2 and 1.0 seconds, to better represent the probabilistic shaking that can be expected for various types of structures at a given site. The "mapped" values generally represent "bedrock" shaking with a 2 percent probability of being exceeded in a 50-year period. The values are then modified for site-specific use based on a broad classification of the soil profile at the site.

Based on the soil information obtained from our borings, and using the site coordinates indicated below, we derived the following earthquake ground motion parameters in accordance with 2010 California Building Code.

TABLE 2

Parameters for Seismic Design

2010 CBC Parameters	Values
Site Latitude	37.8380° North
Site Longitude	122.2978° West
Site Class	Stiff Soil Profile. D
Mapped Spectral Acceleration for Short Period, S_S	1.508g
Mapped Spectral Acceleration for 1 Second Period, S_1	0.60g
Site Coefficient. Fa	1.0
Site Coefficient, Fv	1.5
Site-Modified Spectral Acceleration for Short Period, S_{MS}	1.508
Site-Modified Spectral Acceleration for a 1-Second Period, S_{M1}	0.900
Design Spectral Acceleration for Short Period, S_{DS}	1.005
Design Spectral Acceleration for Short Period, S_{D1}	0.60

8.4 Foundations

8.4.1 Convenience Store and Car Wash Buildings

Provided site grading has been performed as recommended above, the convenience store building, and the car wash tunnel can be adequately supported on a concrete mat slab capable of spreading the loads uniformly over a large area. The concrete mat slab can be designed for a maximum localized allowable bearing pressure of 1,000 psf for dead plus live loads. This allowable bearing pressure may be increased by one-third for all loads including wind or seismic. The mat slab should be reinforced in both directions with top and bottom steel reinforcement, as specified by the project Structural Engineer, to help span local irregularities. The concrete mat slab should be underlain by a 15-mil thick vapor barrier, over 4-inch thick layer of compacted baserock layer (conforming to Caltrans Class 2 baserock specifications), over soil subgrade compacted as per our recommendations included in the "Site Grading" section of this report. A modulus of subgrade reaction of 50 pci for a one-foot square area can be used for the design of the mat. We estimate that total settlement due to static loads would be on the order of 1-inch and the post-construction differential settlement across the mat would not exceed ½-inch. Accounting for both liquefaction-induced and static differential settlement, we recommend the mat should be designed to tolerate a total differential movement of approximately 1½ inches between the center and corner of the mat.

8.4.2 Fueling Canopy Structure

The proposed fueling canopy may be supported on conventional shallow spread footings or drilled, cast-in-place, reinforced concrete piers. Because the proposed fuel tanks will be installed in a 17-feet deep excavation located approximately 5 feet away from the foundation of the middle two columns of the fueling canopy, we recommend that the fueling canopy foundations should be constructed prior to digging the tank excavation. The foundation design recommendations for fueling canopy structure are provided in the following sections of this report.

8.4.2.1 Conventional Shallow Spread Footings

The fueling canopy may be supported on either conventional shallow spread footing foundations. The footings should be founded a minimum of 24 inches below the lowest adjacent grade. The footings should be at least 24 inches wide and designed for an allowable bearing pressure of 1,200 pounds per square foot (psf) for the total loads. A one third increase

of the allowable bearing pressure may be assumed in consideration of short term wind and seismic loads. Due to the potential for lateral spreading at the site, the footings should be inter-connected using grade beams or be connected with the reinforced concrete rigid pavement slab. Footing and grade beam excavations should be observed by BAGG. These footings should be clean and expose firm soils.

Resistance to uplift loads may be provided by the weight of the footing and the adhesion between the perimeter of the footing and the surrounding soil. For design purposes, the adhesion between the footing and the surrounding fill soil may be assumed to be 300 psf.

Lateral resistance may be obtained from friction acting on the bottom of the foundation, and from passive earth pressures acting on the sides of footings that have been poured in neat excavations. The allowable passive resistance for wind or seismic loads can be taken as an equivalent fluid pressure of 250 pounds per cubic foot (pcf). Passive resistance should be ignored in the top 12 inches unless the area adjacent to the footing is covered by asphalt concrete or cement concrete. Additionally, a frictional coefficient of 0.30 may be assumed to act along the bottom of footings in conjunction with passive resistance.

The total post-construction static settlement of footings designed and constructed in accordance with our recommendations is estimated to be approximately 1-inch with differential settlement to be approximately one-half of the total settlement. The seismic settlement is estimated to be additional 1- to 1½-inches.

8.4.2.2 Drilled, Cast-in-place, Reinforced Concrete Piers

The fueling canopy loads may also be supported on drilled, cast-in-place, reinforced concrete piers. These piers should be a minimum of 24-inches in diameter, and derive their load bearing capacity through skin friction along the surface area of the piers and surrounding soils. The foundation piers should be designed assuming an allowable skin friction support of 350 pounds per square foot (psf) for both vertical and uplift loads. This skin friction value may be increased by one-third when downward seismic and/or wind loads are included. Due to the possibility of lateral displacement during a design level seismic event, the individual piers should be inter-connected with grade beams. Design of the pier and grade beam reinforcement, depth, and diameter should be determined by the project Structural Engineer responsible for the foundation design. The bottom of the drilled pier holes should be cleaned of all loose soil cuttings before placement of reinforcing steel. BAGG should be allowed an opportunity to observe the pier drilling process and confirm the depth, diameter, and cleanliness of the pier

hole prior to placement of steel reinforcement and structural concrete. Due to the possibility that groundwater seepage may be encountered in the pier holes, concrete should be placed using a tremie pipe. The end of the tremie pipe should initially be kept at the bottom of the hole and subsequently a minimum of 18-inches below the concrete surface in the hole.

Lateral resistance may be obtained from passive pressure acting on the sides of foundation piers. The allowable passive resistance can be taken as an equivalent fluid pressure of 250 pounds per cubic foot (pcf) over 1½ times the pier diameter.

8.5 Slabs-on-Grade and Exterior Flatwork

Concrete slabs and flatwork should be supported on a subgrade that has been prepared as recommended under "Site Grading." The subgrade soils should be maintained at a moisture content that is slightly above optimum, and should be approved by the Geotechnical Engineer immediately before the slab is poured.

It is recommended that the floor slabs and flatwork should be underlain by at least 4 inches of compacted aggregate base material. For moisture sensitive floor surfaces, the aggregate base should consist of an approved clean, free draining, angular gravel. The base course is intended to serve as a capillary break; however, moisture may accumulate in the base course zone. Therefore, a Class A (ASTM E 1745) vapor barrier of at least 15 mil thickness, such as Stego Wrap Vapor Barrier, or approved equal, should be placed on the rock where moisture protection is desired and a damp slab is not acceptable.

Where exterior concrete slabs-on-grade will be constructed adjacent to irrigated landscape areas, or where natural runoff drains towards the flatwork, the edges of the flatwork should be extended at least 4 inches below the subgrade (bottom of aggregate base) to minimize water intrusion into the subgrade soils.

8.6 Flexible Pavements

In general, the surficial soil conditions present at the site consist of stiff lean clay. Based on the clayey nature of the near surface soils, for design purposes we have assumed a subgrade R-Value of 5 to develop the preliminary pavement sections tabulated below. Once actual subgrade soil conditions are exposed, a sample of the subgrade soil may be tested for R-Value and the pavement section modified if a significantly different R-Value is obtained.

TABLE
Flexible Pavement Sections
(Subgrade R-Value=5)

Pavement Component	**TI = 4.5**		**TI = 5.0**		**TI = 6.0**	
Asphaltic Concrete (AC) in inches	6	3	7½	3½	9	4
Class II Aggregate Base (R_{Min}=78) in	--	8	--	8½	--	11½
Total Thickness in inches	6	11	7½	12	9	15½

The above pavement sections were calculated using the procedure described in the CalTrans Highway Design Manual, Topic 604, December 20, 2004. The design pertains to a life expectancy for the pavement of 20 years.

All materials and construction procedures, including placement and compaction of pavement components, should be performed in conformance with the latest edition of the CalTrans Standard Specifications (except that compaction should be performed in accordance with ASTM Test Method D1557). The aggregate baserock and the asphalt concrete layers should be compacted to a minimum of 95 percent relative compaction. The soil subgrade below the pavement layers should be compacted to 95 percent relative compaction while at moisture content that is slightly above optimum.

8.7 Rigid Pavement

Rigid concrete pavements subject to vehicular loads should consist of 6 inches of concrete with a minimum compressive strength of 3,000 psi placed over 8 inches of Class 2 aggregate base compacted to a minimum of 95% relative compaction. The upper 12 inches of soil subgrade should also be compacted to a minimum of 95 percent relative compaction at a moisture content that is slightly above optimum. Concrete pavements should be reinforced with deformed bars in both directions to control cracking, and joints should be provided in both directions within the pavement to prevent formation of irregular cracks.

Where the concrete pavement meets an asphalt pavement section and at all construction joints that are not doweled or keyed, the concrete pavement should have a thickened edge to compensate for the lack of load transfer. The Portland Cement Association suggests the edge

should be increased by 20 percent, or about 1¼ inches in this case, and tapered back to normal slab thickness over a distance of 10 times the slab thickness, or about 5 feet.

8.8 Drainage

Measures to control and collect surface run-off should be considered an integral part of the proposed project. The ground surface adjacent to all sides of the new structures should be sloped to drain away from the foundations. The run-off from the roof of the buildings and intercepted water from surface drainage should be discharged to suitable outfall locations in a manner that will not allow ponding adjacent to foundations. Any area where surface run-off becomes concentrated should be provided with a catch basin that drains to a suitable discharge point. Surface and subsurface drainage facilities and catchment areas should be checked frequently and cleaned or maintained throughout the project life, as necessary.

8.9 Trench Backfill

Vertical trenches deeper than 5 feet will require temporary shoring. Where shoring is not used, the sides should be sloped or benched, with a maximum slope of 1.5:1 (horizontal:vertical). The trench spoils should not be placed closer than 3 feet (or one-half of the trench depth) from the trench sidewalls. All work associated with trenching must conform to the State of California, Division of Industrial Safety requirements.

Trench backfill materials and compaction should conform to the following as a minimum:

- In general, soils used for trench backfill shall be free of debris, roots and other organic matter, and rocks or lumps exceeding 3 inches in greatest dimension. The portion of the trench below the water table should be backfilled with primarily granular import materials. The on-site soils if free of debris and organics, can be used for trench backfill, but not for pipe bedding or shading. BAGG should be allowed an opportunity to evaluate the suitability of on-site material for trench backfilling prior to its use. The bedding and shading material should consist of fine-grained granular soils such as sands.

- Compaction shall be performed to a minimum of 90% relative compaction in accordance with ASTM D1557, at a moisture content recommended previously. In pavement areas, the upper 12 inches of the backfill (below the pavement subgrade) shall be compacted to should be compacted to 95 percent relative compaction while at moisture content that is slightly above optimum. Jetting shall not be allowed.

8.10 Plan Review

It is recommended that the Geotechnical Engineer (BAGG Engineers) be retained to review the final grading, foundation, and drainage plans. This review is to assess general suitability of the earthwork, foundation, and drainage recommendations contained in this report and to verify the appropriate implementation of our recommendations into the project plans and specifications.

8.11 Observation and Testing

It is recommended that the Geotechnical Engineer (BAGG) be retained to provide observation and testing services during site grading, excavation, backfilling, and foundation construction phases of work. This is intended to verify that the work in the field is performed as recommended and in accordance with the approved plans and specifications, as well as verify that subsurface conditions encountered during construction are similar to those anticipated during the design phase. Changed or unanticipated conditions may warrant modifications to the recommendations presented herein. For this reason BAGG cannot be responsible for our recommendations if we are not retained to provide observation and testing services during construction.

9.0 CLOSURE

This report has been prepared in accordance with generally-accepted engineering practices. The recommendations presented in this report are based on our understanding of the proposed construction as described herein, and upon the soil conditions encountered in the exploratory borings drilled for this investigation.

The conclusions and recommendations contained in this report are based on subsurface conditions revealed by three widely-spaced borings; a limited laboratory testing program; and a review of available geotechnical and geologic literature pertaining to the project site. It is not uncommon for unanticipated conditions to be encountered during site grading and/or foundation installation and it is not possible for all such variations to be found by a field exploration program appropriate for this type of project. The recommendations contained in this report are therefore contingent upon the review of the final grading, drainage, and foundation plans by this office, and upon geotechnical observation and testing by BAGG of all pertinent aspects of site grading, including demolition, placement of fills and backfills, and foundation construction.

Soil conditions and standards of practice change with time. Therefore, we should be consulted to update this report, if the construction does not commence within 18 months from the date that this report is submitted. Additionally, the recommendations of this report are only valid for the proposed development as described herein. If the proposed project is modified, our recommendations should be reviewed and approved or modified by this office in writing.

The following references and plates are attached and complete this report:

Plate 1	Vicinity Map
Plate 2	Site Plan
Plate 3	Regional Geologic Map
Plate 4	Regional Fault Map
Plate 5	Unified Soil Classification System
Plate 6	Soil Terminology
Plate 7	Boring Log Notes
Plate 8 through 10	Boring Logs
Plate 11	Consolidation Test Results

ASFE document titled “Important Information About Your Geotechnical Engineering Report”

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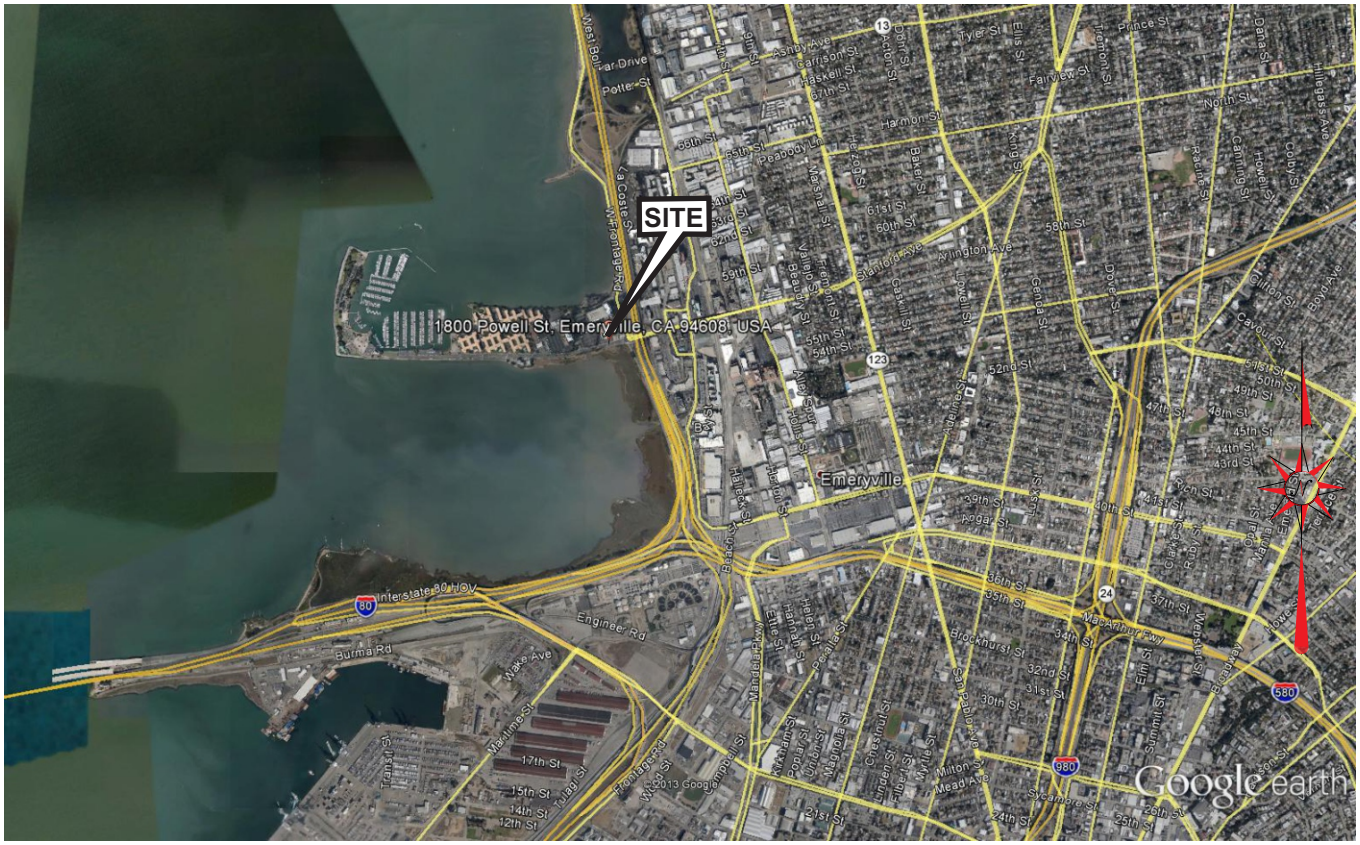
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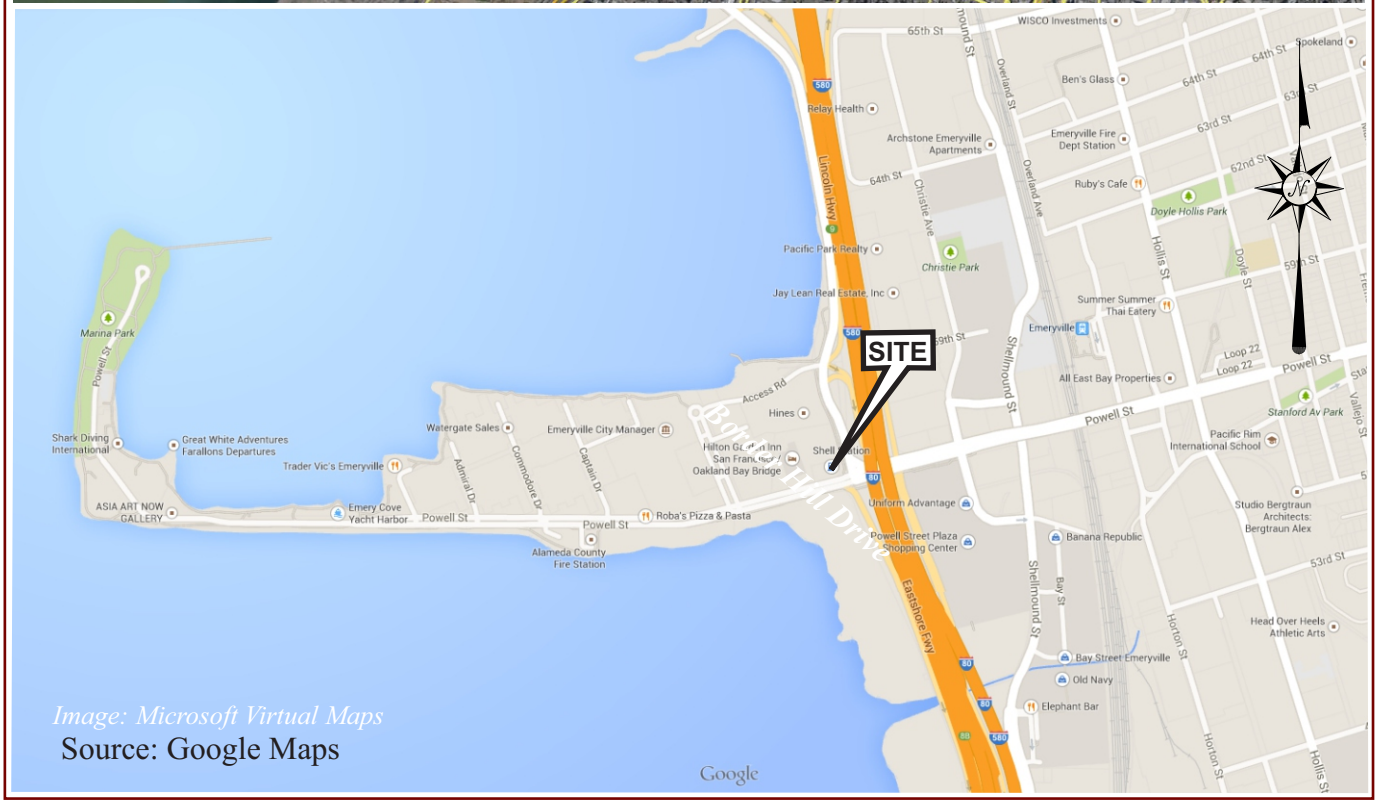


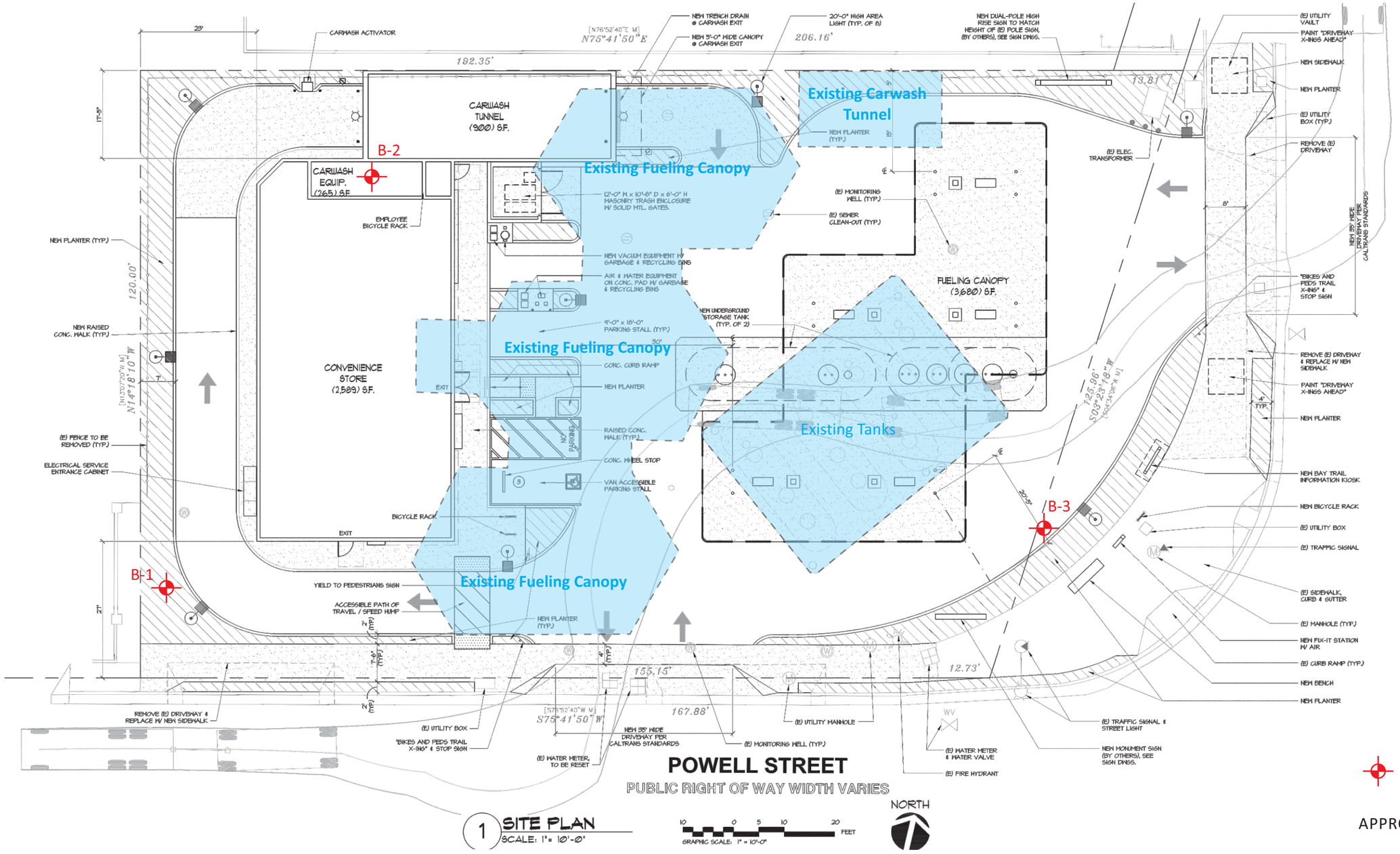
Image: Microsoft Virtual Maps
Source: Google Maps

PROPOSED SHELL GAS STATION FUELING CANOPY
CONVENIENCE STORE AND CAR WASH
1800 POWELL STREET
EMERYVILLE, CALIFORNIA

VICINITY MAP

DATE:	JOB NUMBER:	PLATE
Dec 2013	GOYAL-14-00	1

BvGG ENGINEERS



1 SITE PLAN
SCALE: 1" = 10'-0"

APPROXIMATE BORING LOCATION

SOURCES:
M.I ARCHITECTS
GOOGLE EARTH

PROPOSED SHELL GAS STATION & LOOP CONVENIENCE STORE
1800 POWELL STREET
EMERYVILLE, CALIFORNIA

BAGG ENGINEERS

SITE PLAN

JOB NO.	SCALE	DATE	PLATE
GOYAL-14-00	As shown	Dec 2013	2



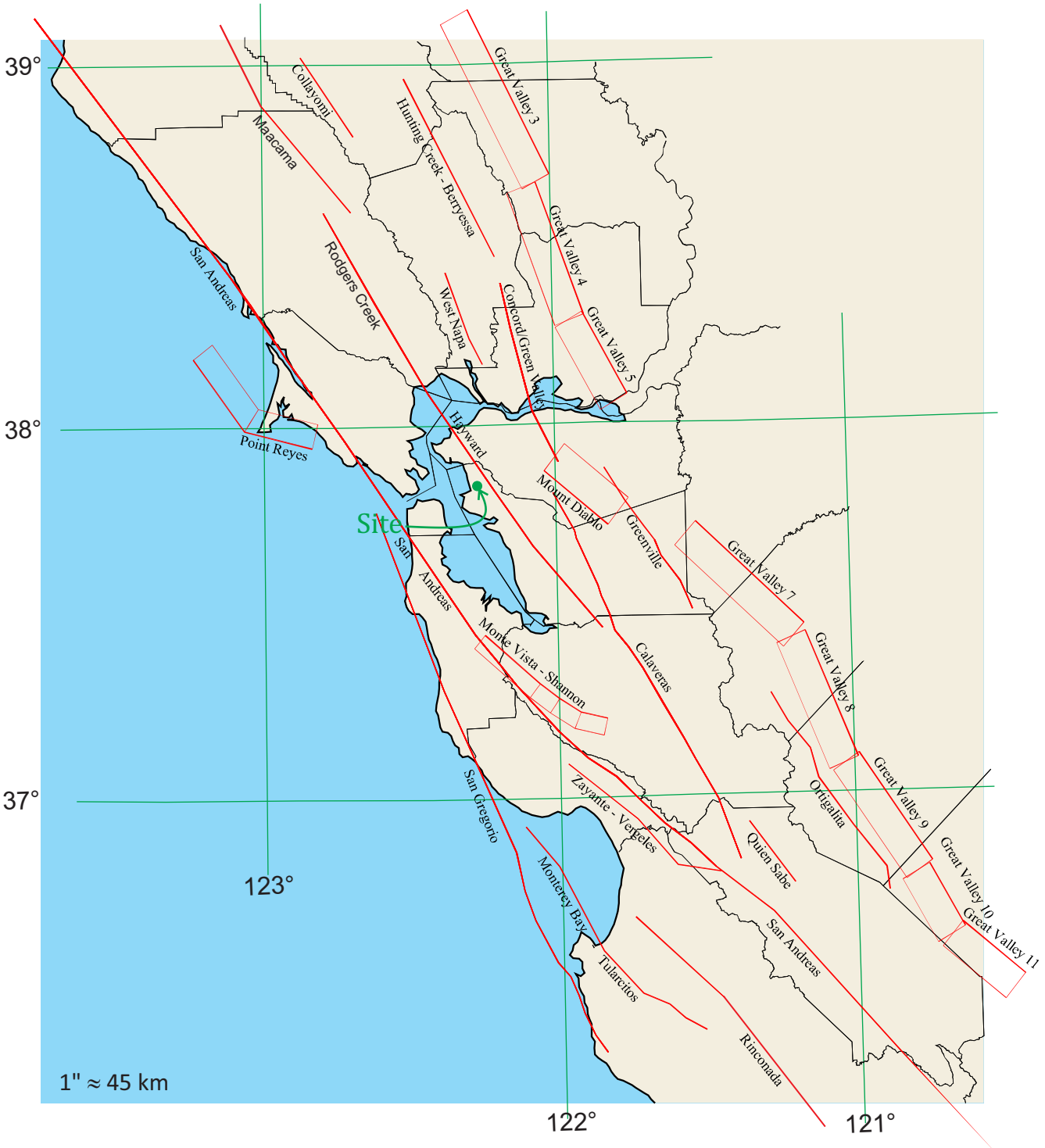
LEGEND

afbm - Artificial fill over Bay Mud
Qhl - Holocene alluvial fan levee deposits
Qhf - Holocene alluvial fan deposits
Qds - Latest Pleistocene to Holocene Dune Sand
ac - artificial stream channel

Source: California Seismic Hazard Zone Report 081, 2003

PROPOSED SHELL GAS STATION AND CONVENIENCE STORE LOOP 1800 POWELL STREET EMERYVILLE, CALIFORNIA	**VICINITY GEOLOGIC MAP**		
	DATE: Dec. 2013	**JOB NUMBER:** GOYAL-14-00	**PLATE** 3

BAGG ENGINEERS



PROPOSED SHELL GAS STATION FUELING CANOPY CONVENIENCE STORE, AND CAR WASH 1800 POWELL STREET EMERYVILLE, CALIFORNIA	**REGIONAL FAULT MAP**		
	DATE: Dec 2013	JOB NUMBER: GOYAL-14-00	PLATE 4

BAGG ENGINEERS

COARSE-GRAINED SOILS

LESS THAN 50% FINES*

GROUP SYMBOLS	ILLUSTRATIVE GROUP NAMES	MAJOR DIVISIONS
GW	Well graded gravel Well graded gravel with sand	GRAVELS More than half of coarse fraction is larger than No. 4 sieve size
GP	Poorly graded gravel Poorly graded gravel with sand	
GM	Silty gravel Silty gravel with sand	
GC	Clayey gravel Clayey gravel with sand	
SW	Well graded sand Well graded sand with gravel	SANDS More than half of coarse fraction is smaller than No. 4 sieve size
SP	Poorly graded sand Poorly graded sand with gravel	
SM	Silty sand Silty sand with gravel	
SC	Clayey sand Clayey sand with gravel	

NOTE: Coarse-grained soils receive dual symbols if:
(1) their fines are CL-ML (e.g. SC-SM or GC-GM) or
(2) they contain 5-12% fines (e.g. SW-SM, GP-GC, etc.)

FINE-GRAINED SOILS

MORE THAN 50% FINES*

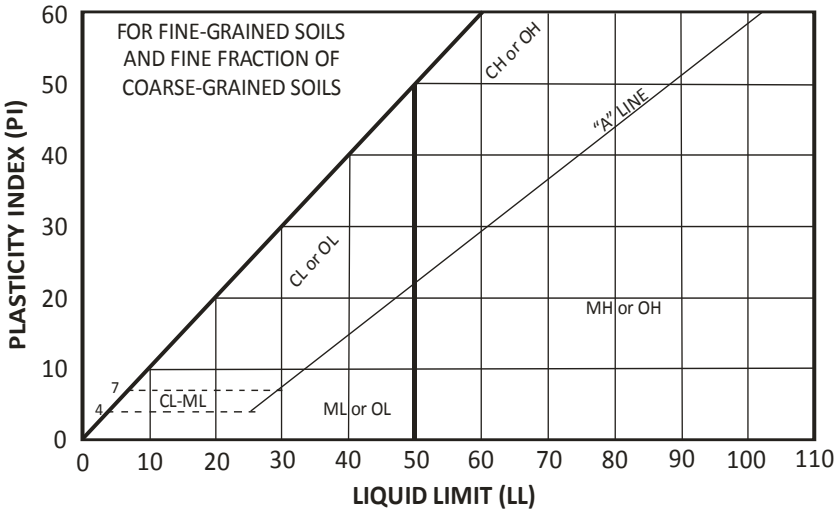
GROUP SYMBOLS	ILLUSTRATIVE GROUP NAMES	MAJOR DIVISIONS
CL	Lean clay Sandy lean clay with gravel	SILTS AND CLAYS liquid limit less than 50
ML	Silt Sandy silt with gravel	
OL	Organic clay Sandy organic clay with gravel	
CH	Fat clay Sandy fat clay with gravel	SILTS AND CLAYS liquid limit more than 50
MH	Elastic silt Sandy elastic silt with gravel	
OH	Organic clay Sandy organic clay with gravel	
PT	Peat Highly organic silt	HIGHLY ORGANIC SOIL

NOTE: Fine-grained soils receive dual symbols if their limits in the hatched zone on the Plasticity Chart(L-M)

SOIL SIZES

COMPONENT	SIZE RANGE
BOULDERS	ABOVE 12 in.
COBBLES	3 in. to 12 in.
GRAVEL	No. 4 to 3 in.
Coarse	¾ in to 3 in.
Fine	No. 4 to ¾ in.
SAND	No. 200 to No.4
Coarse	No. 10 to No. 4
Medium	No. 40 to No. 10
Fine	No. 200 to No. 40
*FINES:	BELOW No. 200

PLASTICITY CHART



NOTE: Classification is based on the portion of a sample that passes the 3-inch sieve.

Reference: ASTM D 2487-06, Standard Classification of Soils for Engineering Purposes (Unified Soil Classification System).

GENERAL NOTES: The tables list 30 out of a possible 110 Group Names, all of which are assigned to unique proportions of constituent soils. Flow charts in ASTM D 2487-06 aid assignment of the Group Names. Some general rules for fine grained soils are: less than 15% sand or gravel is not mentioned; 15% to 25% sand or gravel is termed "with sand" or "with gravel", and 30% to 49% sand or gravel is termed "sandy" or "gravelly". Some general rules for coarse-grained soils are: uniformly-graded or gap-graded soils are "Poorly" graded (SP or GP); 15% or more sand or gravel is termed "with sand" or "with gravel", 15% to 25% clay and silt is termed clayey and silty and any cobbles or boulders are termed "with cobbles" or "with boulders".

UNIFIED SOIL CLASSIFICATION SYSTEM

BVGG ENGINEERS

SOIL TYPES (Ref 1)

Boulders: particles of rock that will not pass a 12-inch screen.

Cobbles: particles of rock that will pass a 12-inch screen, but not a 3-inch sieve.

Gravel: particles of rock that will pass a 3-inch sieve, but not a #4 sieve.

Sand: particles of rock that will pass a #4 sieve, but not a #200 sieve.

Silt: soil that will pass a #200 sieve, that is non-plastic or very slightly plastic, and that exhibits little or no strength when dry.

Clay: soil that will pass a #200 sieve, that can be made to exhibit plasticity (putty-like properties) within a range of water contents, and that exhibits considerable strength when dry.

MOISTURE AND DENSITY

Moisture Condition: an observational term; dry, moist, wet, or saturated.

Moisture Content: the weight of water in a sample divided by the weight of dry soil in the soil sample, expressed as a percentage.

Dry Density: the pounds of dry soil in a cubic foot of soil.

DESCRIPTORS OF CONSISTENCY (Ref 3)

Liquid Limit: the water content at which a soil that will pass a #40 sieve is on the boundary between exhibiting liquid and plastic characteristics. The consistency feels like soft butter.

Plastic Limit: the water content at which a soil that will pass a #40 sieve is on the boundary between exhibiting plastic and semi-solid characteristics. The consistency feels like stiff putty.

Plasticity Index: the difference between the liquid limit and the plastic limit, i.e. the range in water contents over which the soil is in a plastic state.

MEASURES OF CONSISTENCY OF COHESIVE SOILS (CLAYS) (Ref's 2 & 3)

Very Soft	N=0-1*	C=0-250 psf	Squeezes between fingers
Soft	N=2-4	C=250-500 psf	Easily molded by finger pressure
Medium Stiff	N=5-8	C=500-1000 psf	Molded by strong finger pressure
Stiff	N=9-15	C=1000-2000 psf	Dented by strong finger pressure
Very stiff	N=16-30	C=2000-4000 psf	Dented slightly by finger pressure
Hard	N>30	C>4000 psf	Dented slightly by a pencil point

*__N__=blows per foot in the Standard Penetration Test. In cohesive soils, with the 3-inch-diameter ring sampler, 140-pound weight, divide the blow count by 1.2 to get N (Ref 4).

MEASURES OF RELATIVE DENSITY OF GRANULAR SOILS (GRAVELS, SANDS, AND SILTS) (Ref's 2 & 3)

Very Loose	N=0-4**	RD=0-30	Easily push a ½-inch reinforcing rod by hand
Loose	N=5-10	RD=30-50	Push a ½-inch reinforcing rod by hand
Medium Dense	N=11-30	RD=50-70	Easily drive a ½-inch reinforcing rod
Dense	N=31-50	RD=70-90	Drive a ½-inch reinforcing rod 1 foot
Very Dense	N>50	RD=90-100	Drive a ½-inch reinforcing rod a few inches

**__N__=Blows per foot in the Standard Penetration Test. In granular soils, with the 3-inch-diameter ring sampler, 140-pound weight, divide the blow count by 2 to get N (Ref 4).

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Ref 1: ASTM Designation: D 2487-06, **Standard Classification of Soils for Engineering Purposes** (Unified Soil Classification System).

Ref 2: Terzaghi, Karl, and Peck, Ralph B., **Soil Mechanics in Engineering Practice,** John Wiley & Sons, New York, 2nd Ed., 1967, pp. 30, 341, and 347.

Ref 3: Sowers, George F., **Introductory Soil Mechanics and Foundations: Geotechnical Engineering,** Macmillan Publishing Company, New York, 4th Ed., 1979, pp. 80, 81, and 312.

Ref 4: Lowe, John III, and Zaccheo, Phillip F., **Subsurface Explorations and Sampling,** Chapter 1 in "Foundation Engineering Handbook," Hsai-Yang Fang, Editor, Van Nostrand Reinhold Company, New York, 2nd Ed, 1991, p. 39.

SOIL TERMINOLOGY

KEY TO SYMBOLS

Symbol	Description
Strata symbols	
	Paving
	Lean Clay
	Poorly graded sand and gravel
	Silty sand
	High plasticity (fat) clay
	Moderate plasticity clay
	Borderline gravelly clay to clayey gravel

Symbol	Description
	Well graded gravel with clay
	Clayey sand
	Poorly graded sand
Misc. Symbols	
	Boring continues
Soil Samplers	
	Modified California Sampler: 2.375" ID by 3" OD, split-barrel sampler driven w/ 140-pound hammer falling 30 inches
	Standard Penetration Test: 1 3/8" ID by 2" OD, split-spoon sampler driven with 140-pound hammer falling 30" (ASTM D 1586-99)

Notes:

1. The borings were drilled on September 5, 2013 with a truck-mounted drill rig using 8-inch O.D. hollow-stem augers.

2. The borings were located by pacing distances from landmarks shown on the Site Plan. The indicated boring locations are therefore only approximate.

3. Groundwater was encountered at depths shown on the boring logs.

4. The "Blow Count" column on the logs indicates the number of blows required to drive the sampler below the bottom of the boring, with the blow count given for each six inches of penetration, or portion thereof.

5. The soils' Group Names (e.g. SANDY LEAN CLAY) and Group Symbols (e.g. CL) were determined or estimated per ASTM D2487, Standard Classification of Soils for Engineering Purposes (Unified Soil Classification System, Plate 5). Other soil engineering terms used on the boring logs are defined on Plate 6, Soil Terminology.

6. In addition to interpretations of sample classification, there are interpretations of where stratum changes occur between samples, where gradational changes substantially occur, and where minor changes within a stratum are significant enough to log.

7. The boring logs are intended for use with this report only, and for the purposes outlined in the text. The logs depict interpretations of subsurface conditions on at the locations shown on the Site Plan and only on the dates noted on the logs.

KEY TO SYMBOLS

Symbol	Description
Line Types	
_____	Denotes a sudden, or well identified strata change
_ _ _	Denotes a gradual, or poorly identified strata change
DS	Direct Shear test performed at field (Nat.) moisture content (ASTM D2166)
DSX	Dirct Shear test performed on a sample submerged in water until volume changes ceased. (ASTM D2166)
PI	Plasticity Index established per ASTM D4318 laboratory test method
LL	Liquid Limit established per ASTM D4318 laboratory test method

BORING LOG

Boring No. B-1
Page 1 of 2

JOB NAME: Proposed Service Station, Car Wash, Canopy, and Food Mart
CLIENT: A.U. Energy, LLC
LOCATION: 1800 Powell Street (See Plate 2, Site Plan)
DRILLER: West Coast Exploration
DRILL METHOD: 8-inch Diameter HSA

JOB NO.: GOYAL-14-00
DATE DRILLED: 09/05/13
ELEVATION:
LOGGED BY: AS
CHECKED BY:

Type of Strength Test	Test Surcharge Pressure, psf	Test Water Content, %	Shear Strength, psf	In-Situ Water Content, %	In-Situ Dry Unit Weight, pcf	Depth, ft.	Soil Symbols, Samplers and Blow Counts	USCS	Description	Remarks
						0				
							7 13 18	CL	AC Pavement underlain by concrete	Fill
DS	1500	NAT	1450	13.5	133				Random mixture of fine gravel, sand, silt, and clay, greenish gray, very stiff, moist, some brick fragments	
							6 8 8			
DS	2000	NAT	2450	8.1	126	5			same as above, increasing sand and gravel content	
							26 50/3"		contains some roofing shingles, gravel, and rubber tires	Fill
						10				
							35 50/4"			Fill
						15				
							14 11 12	SP/ GP	GRAVELLY SAND: some silt, grayish black, medium dense, wet	Native
				15.8						Percentage Fines = 8.7
							7 9 11	SM	SILTY SAND: fine sand, grayish black, stifff to medium dense, wet	
				24.1		20				Percentage fines = 17
							2 2 3	CH	FAT CLAY: some decomposed organics, grayish black, wet, soft, fiberous decomposed organics	
							2 2 2			
						25				
DS	2500	NAT	1150	26.1	99		7 11 12	CL/ CH	LEAN/FAT CLAY: olive gray, v. stiff, some thin sandy seams within the clayey soil, some	
						30				

BORING LOG

Boring No. B-1
Page 2 of 2

JOB NAME: Proposed Service Station, Car Wash, Canopy, and Food Mart *JOB NO.:* GOYAL-14-00

Type of Strength Test	Test Surcharge Pressure, psf	Test Water Content, %	Shear Strength, psf	In-Situ Water Content, %	In-Situ Dry Unit Weight, pcf	Depth, ft.	Soil Symbols, Samplers and Blow Counts	USCS	Description	Remarks
									iron oxide staining (old Bay Mud)	
DS	3000	NAT	1850	18.5	108	35	8 11 17	CL	GRAVELLY CLAY: yellow brown, some fine to medium sand and fine gravel, very stiff, wet	
DS	3500	NAT	2700	17.5	114	40	12 18 16	CL/ GC	GRAVELLY CLAY to CLAYEY GRAVEL: yellow brown, fine to medium angular gravel, hard to medium dense, wet	
						45	9 13 15			
DS	4000	NAT	2600	20.5	108	50	10 10 11	CH	FAT CLAY: greenish gray to olive brown, stiff to very stiff, wet	
						55			Boring was terminated at 50 feet bgs. Groundwater was encountered at 15 feet bgs. Borehole was backfilled with cement grout.	
						60				
						65				

BORING LOG

Boring No. B-2
Page 1 of 1

JOB NAME: Proposed Service Station, Car Wash, Canopy, and Food Mart
CLIENT: A.U. Energy, LLC
LOCATION: 1800 Powell Street (See Plate 2, Site Plan)
DRILLER: West Coast Exploration
DRILL METHOD: 8-inch Diameter HSA

JOB NO.: GOYAL-14-00
DATE DRILLED: 09/05/13
ELEVATION:
LOGGED BY: AS
CHECKED BY:

Type of Strength Test	Test Surcharge Pressure, psf	Test Water Content, %	Shear Strength, psf	In-Situ Water Content, %	In-Situ Dry Unit Weight, pcf	Depth, ft.	Soil Symbols, Samplers and Blow Counts	USCS	Description	Remarks
						0		CL	Random mixture of gravel, sand, silt, and clay, dark gray brown, moist, very stiff	Fill
DS	1500	NAT	2100	9.1	131		24 50			
						5		GW-GC	SANDY GRAVEL with some clay, dark grayish black, some broken glass	
							8 33 50/5"		---Roofing shingles mixed with clayey soil with some gravel	
						10	50/3"		---roofing shingles, metal scrap	
						15		CH	FAT CLAY, gray black, soft to medium stiff, wet	Native
DS	2000	NAT	480	51.2	69.2		7 6 4			
				31.5		20	2 3 5	SC	CLAYEY SAND: fine sand, grayish black, loose to medium dense, wet	Percentage fines = 27.8
								CH	FAT CLAY: greenish gray, soft, wet (Bay Mud)	
						25	3 3 4			
						30			Boring was terminated at 25 feet bgs. Groundwater was encountered at 15 feet bgs. Upon completion, the borehole was backfilled with cement grout.	

BORING LOG

Boring No. B-3
Page 1 of 1

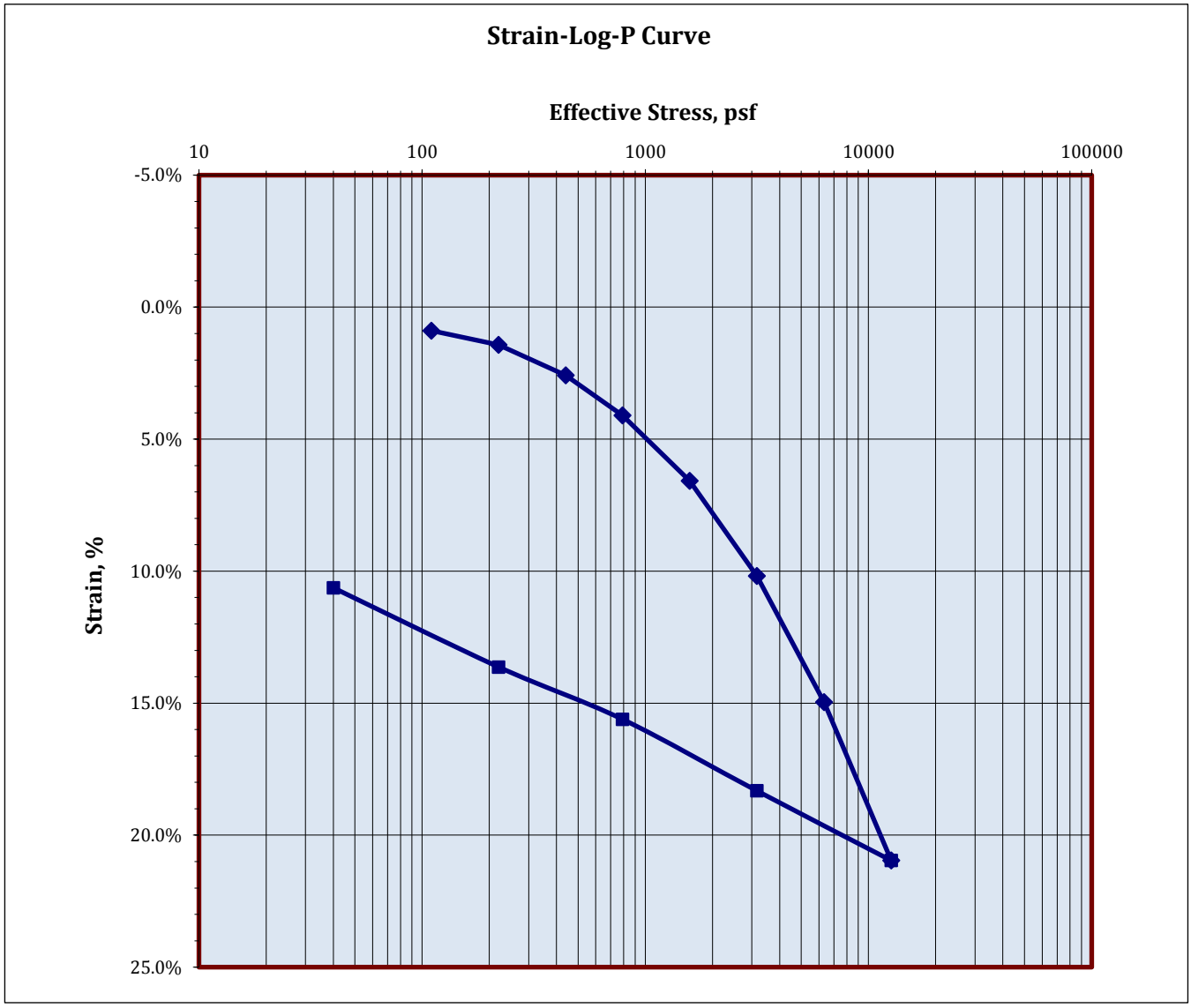
JOB NAME: Proposed Service Station, Car Wash, Canopy, and Food Mart
CLIENT: A.U. Energy, LLC
LOCATION: 1800 Powell Street (See Plate 2, Site Plan)
DRILLER: West Coast Exploration
DRILL METHOD: 8-inch Diameter HSA

JOB NO.: GOYAL-14-00
DATE DRILLED: 09/05/13
ELEVATION:
LOGGED BY: AS
CHECKED BY:

Type of Strength Test	Test Surcharge Pressure, psf	Test Water Content, %	Shear Strength, psf	In-Situ Water Content, %	In-Situ Dry Unit Weight, pcf	Depth, ft.	Soil Symbols, Samplers and Blow Counts	USCS	Description	Remarks
						0		CL	LEAN CLAY: some sand and silt, dark gray brown, very moist, stiff	Fill
DS	1500	NAT	750	34.8	85	5	7 6 10		--- Lean Clay mixed with bricks, roof shingles, wood	
DS	2000	NAT	550	29.7	53	10	6 7 6			
						15	4 4 4	SP	SAND: fine grained with silt, grayish black medium dense, wet	Native
				24.7			3 5 7			Percentage fines = 11.9
						20	6 5 4	CL/ CH	LEAN/FAT CLAY: greenish gray, medium stiff to stiff, wet	
DS	2500	DS	1100	27.7	96	25	5 7 8		Boring was terminated at 25 feet bgs. Groundwater was encountered at 15 feet bgs. Upon completion, borehole was backfilled with cement grout.	
						30				

Consolidation Test
ASTM D2435

Job No.:	GOYAL-14-00	**Boring:**	B-1	**Run By:**	BS
Client:	BAGG	**Sample:**	6	**Reduced:**	AS
Project:		**Depth, ft.:**	24.5	**Checked:**	AS
Soil Type:	Grayish Black Fat Clay			**Date:**	12/6/2013



Ass. Gs = 2.8	Initial	Final
Moisture %:	52.1	44.2
Dry Density, pcf:	71.8	78.1
Void Ratio:	1.434	1.238
Saturation:	101.7%	100%

PROPOSED SHELL GAS STATION
FUELING CANOPY , CONVENIENCE STORE AND CAR WASH
1800 POWELL STREET
EMERYVILLE, CALIFORNIA

PLATE 11

APPENDIX C
BORING LOGS FOR BV-1 THROUGH BV-4 AND SOIL ANALYTICAL DATA

LOG OF SOIL BORING

BUREAU VERITAS

▽ Encountered Groundwater Depth
▼ Static Groundwater Depth
☒ Sample Collected
■ Sample Analyzed

Project No.:	33113-013181.00
Project Name:	Au Energy
Location:	1800 1/2 Powell Street, Emeryville, CA
Logged By:	Don Ashton

BORING NO. BV-1

Start Date:	9/30/13	Start Time: 0900	Elevation (ft, msl): n/a
Finish Date:	9/30/13	Finish Time: 1300	Boring Diameter (in) 2.5
Driller:	ECA	Drill Method:	DPT 5410 Macrocore/Dual Wall
Hammer Weight:	n/a	Drop: n/a	

Borehole Completion Data: Backfill with cement grout.

Depth To ▽ (ft)	...	Depth To ▼ (ft)	...
Time:	...	Time:	...
Date:	...	Date:	...

SAMPLE INTERVAL	SAMPLE RECOVERY (in)	SAMPLE ID	PID READING (ppm)	TIME	DEPTH (ft)	SAMPLE	GRAPHIC LOG	USCS	DESCRIPTION
				0900				SM	Grass and SILTY SAND - brown, soft, wet, roots.
					1			CL	CLAY to SILTY CLAY - dark brown, firm, damp.
					2			SP-SM	SAND to GRAVELLY SAND (Fill) - gray to dark gray, trace to 10% fines, medium to coarse sand 40-95%, gravel to 1" diameter 0-25%, angulaer, damp, dense, rare brick and wood debris, distinct HC odor.
			517		3	B			
	27	3.5		0903	4	☒			
					5				
					6				
			1.0		7	B			At 7 ft bgs - concrete rubble (crushed), slight HC odor.
	20	7.5		0906	8	☒			
					9				
					10				
			0.4		11	B		DEBRIS	
	40	11.5		0909	12	☒			
					13				Waste material (Fill) - black, fibrous-tarry material with metal and wood, mixed with 2" of silty sand, coarse, very stiff to dense, distinct HC odor.
	24	13.5		0915	14	☒			(Fibrous material - massive to platy, tarry to dry and mostly platy to fibrous)
			9.1		15	B			
	24	15.5		0922	16	☒			
					17				
					18			SP	SAND - gray, trace fines, fine to medium sand 90-100%.
								CL	Rare clam shell debris, loose, wet.
									CLAY - black, soft, wet.
			13.9		19	B		GC-SC	GRAVEL to GRAVELLY SAND - black, dense, fines 5-20%, fine to medium sand, gravel 5-40%, loose, wet.
	30	19.5		0930		☒			End of boring at 20 ft bgs.

BUREAU VERITAS

LOG OF SOIL BORING

Project No.:	33113-013181.00
Project Name:	Au Energy
Location:	1800 1/2 Powell Street, Emeryville, CA
Logged By:	Don Ashton

BORING NO. BV-2

Start Date:	9/30/13	Start Time: 1020	Elevation (ft, msl): n/a
Finish Date:	9/30/13	Finish Time: 1330	Boring Diameter (in) 2.5

Driller:	ECA	Drill Method:	DPT 5410 Macrocore/Dual Wall
Hammer Weight:	n/a	Drop: n/a	

Borehole Completion Data: Backfill with cement grout, with concrete surface plug.

Depth To ▽ (ft)	...	Depth To ▼ (ft)	...
Time:	...	Time:	...
Date:	...	Date:	...

▽ Encountered Groundwater Depth
▼ Static Groundwater Depth
☒ Sample Collected
■ Sample Analyzed

SAMPLE INTERVAL	SAMPLE RECOVERY (in)	SAMPLE ID	PID READING (ppm)	TIME	DEPTH (ft)	SAMPLE	GRAPHIC LOG	USCS	DESCRIPTION
				1020				GW-GM	Concrete pavement.
									Base - GRAVELLY SAND (Fill) - gray to olive gray, dense, damp, slight HC odor.
					1			SP	SAND (Fill) - light gray, trace fines, medium sand, dense, damp, slight HC odor.
					2				
					3				
			90.4			B			
	22	3.5		1025	4	☒			
					5				
					6	B			
		6.0	<4.2			☒			
					7				At 6.9 ft bgs - trace gravel, angular to 1".
			161			B			Waste (Fill) - black, tarry material, very hard, fibrous. (No 5035 sample)
	36	7.5		1033	8	☒			
					9				
					10			DEBRIS	
			212		11	B			
	20	11.5		1039	12	☒			
	12			1045					
			98.9		13	B		SM	SILTY SAND (Fill) - tan, fines 10-20%, medium to coarse sand, angular (appears to be
		13.5			14	☒			roofing granules), loose, wet, slight HC odor.
								DEBRIS	Waste (Fill) - layered tarry paper-like layers, string woven fabric, red coating, possible
					15				rubbery, very dense.
	36	15.5		1055	16	☒		CL	CLAY - dark gray, with shell debris and sand, soft, wet.
					17			CL-SP	CLAY and fine SAND - black, mottled, some fine sand interbeds, clay and mixed sandy
					18				clay to clay, soft, distinct HC odor.
			1.8		19	B			
	36	19.5		1105		☒			End of boring at 20 ft bgs.

LOG OF SOIL BORING

BUREAU VERITAS

▽ Encountered Groundwater Depth
▼ Static Groundwater Depth
☒ Sample Collected
■ Sample Analyzed

Project No.:	33113-013181.00	**BORING NO.**	
Project Name:	Au Energy		BV-3
Location:	1800 1/2 Powell Street, Emeryville, CA		
Logged By:	Don Ashton		
Start Date:	9/30/13	Start Time: 1135	Elevation (ft, msl): n/a
Finish Date:	9/30/13	Finish Time: 1345	Boring Diameter (in) 2.5
Driller:	ECA	Drill Method:	DPT 5410 Macrocore/Dual Wall
Hammer Weight:	n/a	Drop: n/a	
Borehole Completion Data:	Backfill with cement grout, with concrete surface plug.		

Depth To ▽ (ft)	...	Depth To ▼ (ft)	...
Time:	...	Time:	...
Date:	...	Date:	...

SAMPLE INTERVAL	SAMPLE RECOVERY (in)	SAMPLE ID	PID READING (ppm)	TIME	DEPTH (ft)	SAMPLE	GRAPHIC LOG	USCS	DESCRIPTION
				1135					4-5" concrete pavement.
					1			SP	Base material - GRAVELLY SAND - light gray, medium to coarse sand 60-80%, fine gravel 20-40%, loose, dry, distinct HC odor.
					2				
					3	B			
	40	3.5			4	☒			SAND TO SILTY SAND (Fill) - gray, trace fines, fine to medium sand, loose, damp, HC odor.
					5				
					6			?	Recovered sample slough. Same as 0-4 ft bgs.
			746		7	B			
	42	7.5			8	☒			
					9			DEBRIS	
					10				Debris (Fill) - black, tarry and soft to hard, wood, paper, and carbonaceous.
								GP	At 10.5 ft bgs - 0.3 ft SANDY GRAVEL layer - black, dense, loose, wet, HC odor.
			1135		11	B			
	30	11.5		1158	12	☒		DEBRIS	Tarry material - soft debris.
					13				End of boring at 12.5 ft bgs.
					14				
					15				
					16				
					17				
					18				
					19				

BUREAU VERITAS

LOG OF SOIL BORING

Project No.:	33113-013181.00
Project Name:	Au Energy
Location:	1800 1/2 Powell Street, Emeryville, CA
Logged By:	Don Ashton

BORING NO. BV-4

Start Date:	9/30/13	Start Time: 1210	Elevation (ft, msl): n/a
Finish Date:	9/30/13	Finish Time: 1400	Boring Diameter (in) 2.5

Driller:	ECA	Drill Method:	DPT 5410 Macrocore/Dual Wall
Hammer Weight:	n/a	Drop: n/a	

Borehole Completion Data: Backfill with cement grout.

Depth To ▽ (ft)	...	Depth To ▼ (ft)	...
Time:	...	Time:	...
Date:	...	Date:	...

▽ Encountered Groundwater Depth
▼ Static Groundwater Depth
☒ Sample Collected
■ Sample Analyzed

SAMPLE INTERVAL	SAMPLE RECOVERY (in)	SAMPLE ID	PID READING (ppm)	TIME			DEPTH (ft)	SAMPLE	GRAPHIC LOG	USCS	DESCRIPTION
				1210							4-5" Concrete.
							1			SP	Base material - GRAVELLY SAND - light gray.
											Probed to 3 ft bgs. Dry, no HC odor.
							2				
							3				Abandoned at 3 ft bgs.
							4				
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				
							13				
							14				
							15				
							16				
							17				
							18				
							19				


Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 249493
ANALYTICAL REPORT

Bureau Veritas North America
2430 Camino Ramon
San Ramon, Ca 94583

Project : 33113-013181.00
Location : Au Energy
Level : II

Sample ID	Lab ID
BV-1 3.5'	249493-001
BV-1 7.5'	249493-002
BV-1 11.5'	249493-003
BV-1 13.5'	249493-004
BV-1 15.5'	249493-005
BV-1 19.5'	249493-006
BV-2 3.5'	249493-007
BV-2 6'	249493-008
BV-2 7.5'	249493-009
BV-2 11.5'	249493-010
BV-2 13.5'	249493-011
BV-2 15.5'	249493-012
BV-2 19.5'	249493-013
BV-3 8.5'	249493-014
BV-3 11.5'	249493-015

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

Signature: _____ Date: 10/21/2013

Mike J. Dahlquist
Project Manager
mike.dahlquist@ctberk.com

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**249493**
Client:	**Bureau Veritas North America**
Project:	**33113-013181.00**
Location:	**Au Energy**
Request Date:	**09/30/13**
Samples Received:	**09/30/13**

This data package contains sample and QC results for three soil samples, requested for the above referenced project on 09/30/13. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
BV-1 15.5' (lab # 249493-005), BV-2 11.5' (lab # 249493-010), and BV-3 11.5' (lab # 249493-015) were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
Matrix spikes were not performed for this analysis in batch 203683 due to insufficient sample amount. BV-2 11.5' (lab # 249493-010) was diluted due to high hydrocarbons. No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
BV-1 15.5' (lab # 249493-005), BV-2 11.5' (lab # 249493-010), and BV-3 11.5' (lab # 249493-015) were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

PCBs (EPA 8082):
All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. High surrogate recovery was observed for decachlorobiphenyl in BV-2 11.5' (lab # 249493-010); the corresponding TCMX surrogate recovery was within limits, and no target analytes were detected in the sample. BV-2 11.5' (lab # 249493-010) was diluted due to the color of the sample extract. BV-3 11.5' (lab # 249493-015) was diluted due to foaming. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
Low recoveries were observed for silver and selenium in the MS/MSD for batch 204088; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPDs were within limits. High recoveries were observed for barium, cobalt, and zinc in the MSD for batch 204088; the BS/BSD were within limits, and the associated RPDs were within limits. No other analytical problems were encountered.

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(510)486-0532 Fax

CHAIN OF CUSTODY

Chain of Custody # : _____

C&T LOGIN # _____

Project No: 33113-013181.00
Project Name: AU ENERGY
EDD Format: _____ **Rpt Level:** II III IV
Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: DON ASHTON
Report To: SAME
Company: BUREAU VERITAS
Telephone: 925 426-2679
Email: DON.ASHTON@US.BUREAUVERITAS.COM

Lab No.	Sample ID.	Sampling Date	Sampling Time	Matrix: Water	Matrix: Soil	# of Containers	Chemical Preservative: HCl	H_2SO_4	HNO_3	NaOH	None	Analytical Request: VOCs + TPHg - EPA 8260B/PREP 5035	SVOCs - EPA 8270C	METALS CAM 17	PCBs - EPA 8082	TPH d & TPHmo - EPA 8015	10-4-13	HOLD
	BV-1 3.5'	9-30-2013	09:03	X		1					X							X
	7.5'		09:06			4												X
	11.5'		09:09			1												X
	13.5'		09:15			1												X
	15.5'		09:22			4						X	X	X	X	X		
	19.5'		09:30			1												X
	BV-2 3.5'		10:25			1												X
	6'		10:33			4												X
	7.5'		10:33			1												X
	11.5'		10:39			4						X	X	X	X	X		
	13.5'		10:55			1												X
	15.5'		10:55			1												X
	19.5'		11:05			1												X

Notes:

SAMPLE RECEIPT
☒ Intact ☐ Cold
☐ On Ice ☐ Ambient

RELINQUISHED BY: Don Ashton
9-30-2013 14:45 DATE/TIME
DATE/TIME
DATE/TIME

RECEIVED BY:
9-30-2013 14:15 DATE/TIME
DATE/TIME
DATE/TIME

CHAIN OF CUSTODY

Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Chain of Custody # _____

C&T LOGIN # _____

Project No: 3310-43181.00
Project Name: AV ENERGY
Project P. O. No:
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH _____ ☐ Standard

Sampler: DON ASHTON
Report To: SAME
Company: BUREAU VERITAS
Telephone: 925 - 426 - 2679
Email: DON.ASHTON@US.BUREAUVERITAS.COM

ANALYTICAL REQUEST

Lab No.	Sample ID.	SAMPLING Date Collected	SAMPLING Time Collected	MATRIX Water	MATRIX Solid	# of Containers	CHEMICAL PRESERVATIVE HCl	H2SO4	HNO3	NaOH	None	VOCs + TPHg - 8260B/8260C 8015	SVOCs - 8270C	METALS - CAM 17	PCBs - 8082	TPHd & TPHmo - EPA 8015	WET 10-1-13	7901
	BV-3 7.5'	7-30-2013	11:50		X	1												X
	BV-3 11.5'	"	11:52		X	4						X	X	X	X	X		

Notes:

SAMPLE RECEIPT
☑ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
Don Ashton 7-30-2013 DATE: 14:05 TIME:
DATE: TIME:
DATE: TIME:

RECEIVED BY:
DATE: 7/31/13 TIME: 1035
DATE: TIME:
DATE: TIME:

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 244443 Date Received 9/30/13 Number of coolers 1
Client BV Project As Energy

Date Opened 9/30/13 By (print) MG (sign) [signature]
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO
   Shipping info _____
2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO N/A
3. Were custody papers dry and intact when received? _____ YES NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) _____

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES NO
   If YES, what time were they transferred to freezer? 1430
9. Did all bottles arrive unbroken/unopened? _____ YES NO
10. Are there any missing / extra samples? _____ YES NO
11. Are samples in the appropriate containers for indicated tests? _____ YES NO
12. Are sample labels present, in good condition and complete? _____ YES NO
13. Do the sample labels agree with custody papers? _____ YES NO
14. Was sufficient amount of sample sent for tests requested? _____ YES NO
15. Are the samples appropriately preserved? _____ YES NO N/A
16. Did you check preservatives for all bottles for each sample? _____ YES NO N/A
17. Did you document your preservative check? _____ YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES NO
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____

_____

_____

_____

_____

_____

Rev 10, 11/11

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

CHAIN OF CUSTODY

Chain of Custody # : _____

C&T LOGIN # 244443

Project No: 33113-013181.00
Project Name: AU ENERGY
EDD Format: _____ **Rpt Level:** II III IV
Turnaround Time: ☐ RUSH _____ ☒ Standard

Sampler: DON ASHTON
Report To: SAME
Company : BUREAU VERITAS
Telephone: 925 426-2679
Email: DON.ASHTON@US.BUREAUVERITAS.com

Lab No.	Sample ID.	Sampling Date	Sampling Time	Matrix: Water	Matrix: Soil	# of Containers	Chemical Preservative: HCl	H_2SO_4	HNO_3	NaOH	None	Analytical Request: VOCs + TPHg - EPA 8260 B/MEP 5035	SVOCs - EPA 8270C	METALS CAM 17	PCBs - EPA 8082	HOLD
1	BV-1 3.5'	9-30-2013	09:03		X	1					X					
2	7.5'		09:06			4										X
3	11.5'		09:09			1										X
4	13.5'		09:15			1										X
5	15.5'		09:22			4						X	X	X	X	
6	19.5'		09:30			1										X
7	BV-2 3.5'		10:25			1										X
8	6'		10:33			4										X
9	7.5'		10:33			1										X
10	11.5'		10:39			4						X	X	X	X	
11	13.5'		10:55			1										X
12	15.5'		10:55			1										X
13	19.5'		11:05			1										X

Notes:

SAMPLE RECEIPT
☐ Intact ☐ Cold
☐ On Ice ☐ Ambient

RELINQUISHED BY: Don Ashton
9-30-2013 14:45 DATE/TIME
DATE/TIME
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CHAIN OF CUSTODY

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Phone (510) 486-0900
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C&T LOGIN # 244443

Chain of Custody # _____

Project No: 33113-013181.00
Project Name: ALL ENERGY
Project P. O. No:
EDD Format: Report Level ☐ II ☐ III ☐ IV
Turnaround Time: ☐ RUSH ☐ Standard

Sampler: DON ASHTON
Report To: SAME
Company: BUREAU VERITAS
Telephone: 925-426-2679
Email: DON.ASHTON@US.BUREAUVERITAS.COM

Lab No.	Sample ID.	SAMPLING: Date Collected	SAMPLING: Time Collected	MATRIX: Water	MATRIX: Solid	# of Containers	CHEMICAL PRESERVATIVE: HCl	H2SO4	HNO3	NaOH	None	ANALYTICAL REQUEST: VOCs + TPHg - 8260B/PREP 5035	SVOCs - 8270C	METALS - CAM 17	PCBs - 8082	HOLD
14	BV-3 7.5'	7-30-2013	11:50		X	1										X
15	BV-3 11.5'	"	11:58		X	4						X	X	X	X	

Notes:

SAMPLE RECEIPT
☒ Intact
☐ Cold
☐ On Ice
☐ Ambient

RELINQUISHED BY:
Don Ashton 7-30-2013 DATE: 14:45 TIME:
DATE: TIME:
DATE: TIME:

RECEIVED BY:
DATE: 7/31/13 TIME: 14:45
DATE: TIME:
DATE: TIME:

Curtis & Tompkins, Ltd.

Gasoline by GC/FID (5035 Prep)

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 5035
Project#:	33113-013181.00	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	203740
Units:	mg/Kg	Sampled:	09/30/13
Basis:	as received	Received:	09/30/13

Field ID:	BV-1 15.5'	Diln Fac:	1,000
Type:	SAMPLE	Analyzed:	10/05/13
Lab ID:	249493-005		

Analyte	Result	RL
Gasoline C7-C12	7,000	200

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	131	64-139

Field ID:	BV-2 11.5'	Diln Fac:	333.3
Type:	SAMPLE	Analyzed:	10/05/13
Lab ID:	249493-010		

Analyte	Result	RL
Gasoline C7-C12	590 Y	67

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	64-139

Field ID:	BV-3 11.5'	Diln Fac:	16,670
Type:	SAMPLE	Analyzed:	10/05/13
Lab ID:	249493-015		

Analyte	Result	RL
Gasoline C7-C12	28,000	3,300

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	85	64-139

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC710556	Analyzed:	10/04/13

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	64-139

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 5035
Project#:	33113-013181.00	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC710555	Batch#:	203740
Matrix:	Soil	Analyzed:	10/04/13
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9988	100	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	64-139

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/FID (5035 Prep)

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 5030B
Project#:	33113-013181.00	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	249607-004	Batch#:	203740
Matrix:	Soil	Sampled:	10/01/13
Units:	mg/Kg	Received:	10/03/13
Basis:	as received	Analyzed:	10/05/13

Type: MS Lab ID: QC710557

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<0.07708	10.87	6.998	64	42-120

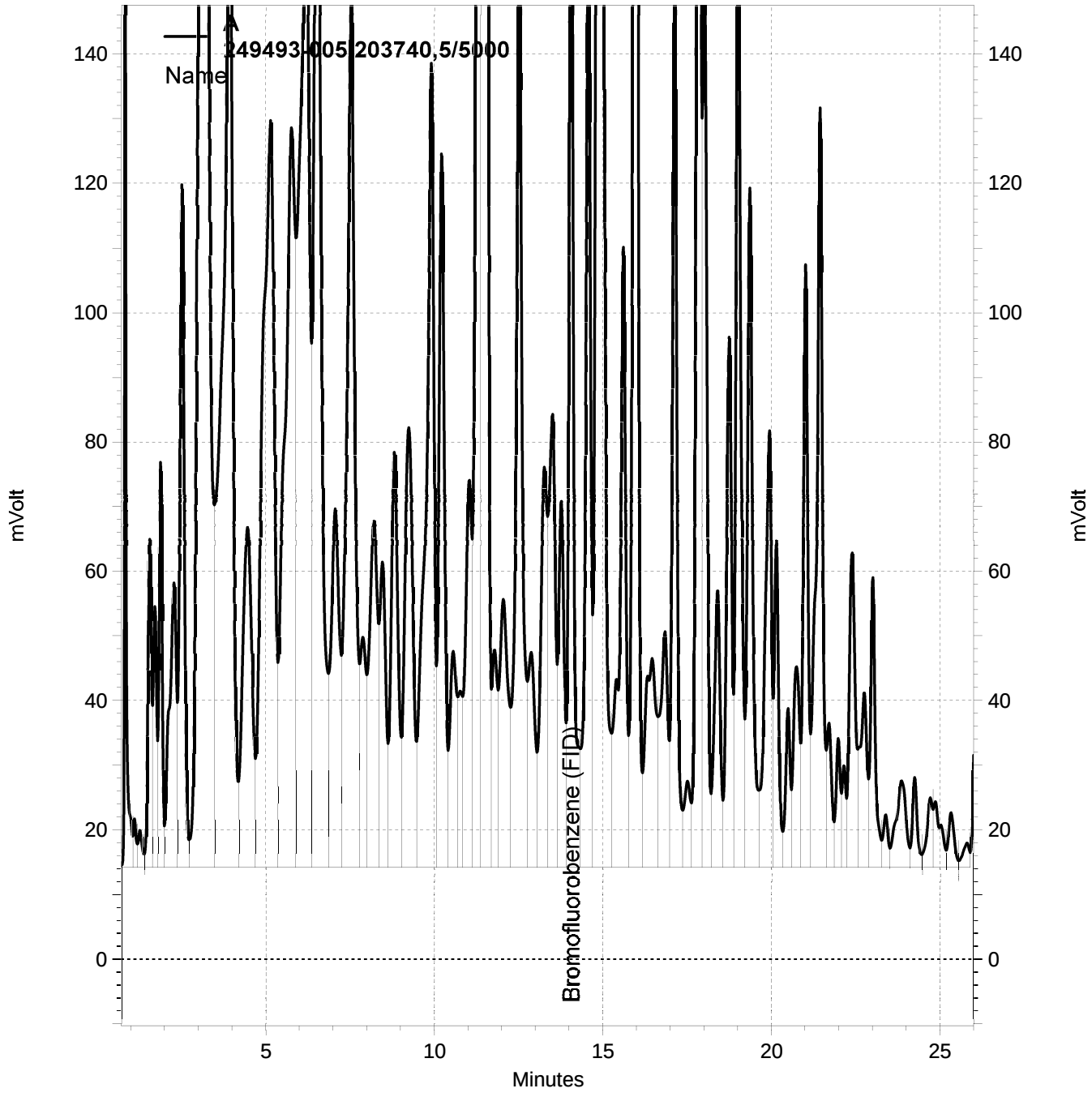
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	64-139

Type: MSD Lab ID: QC710558

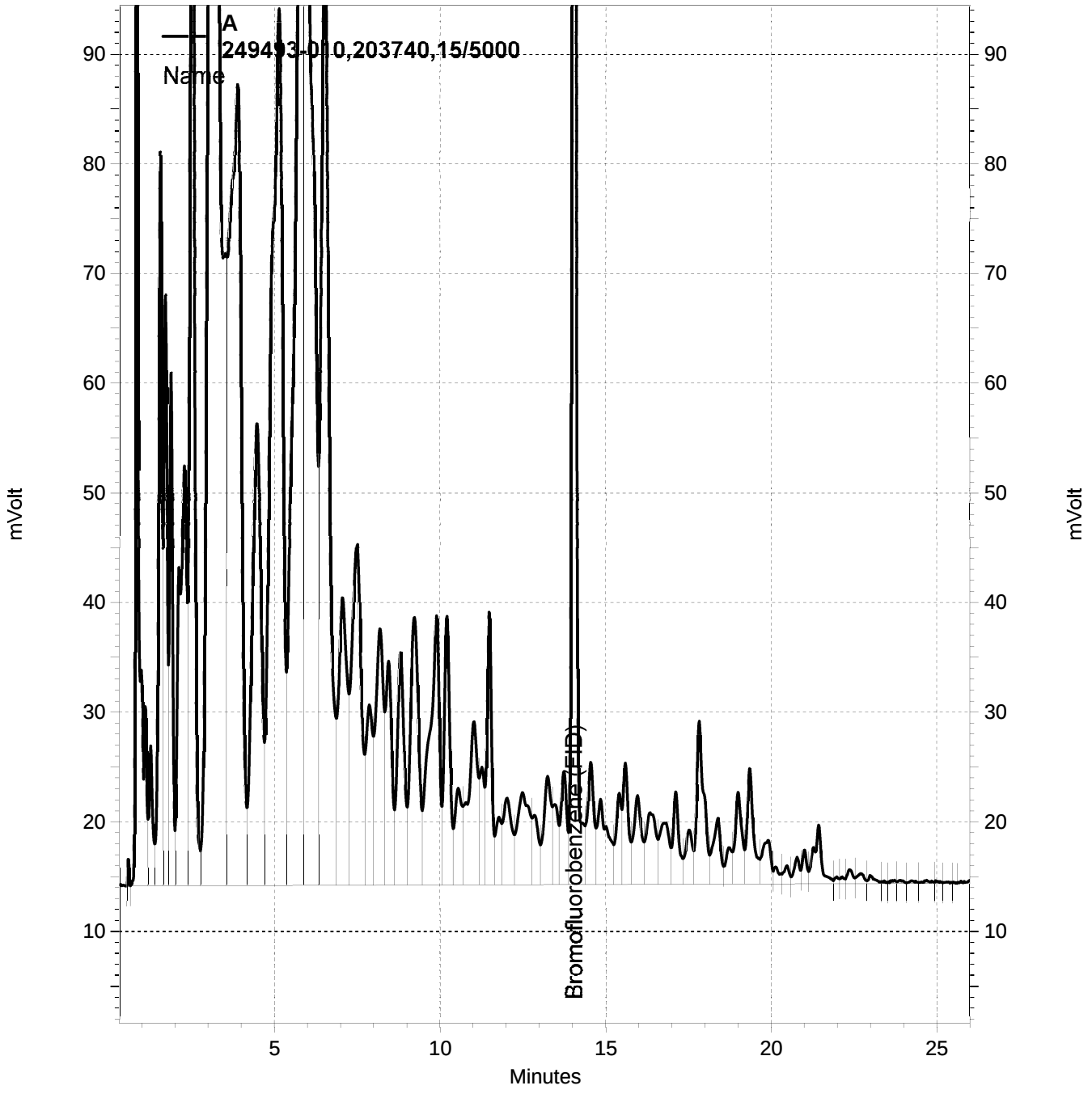
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.31	6.539	63	42-120	1	42

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	64-139

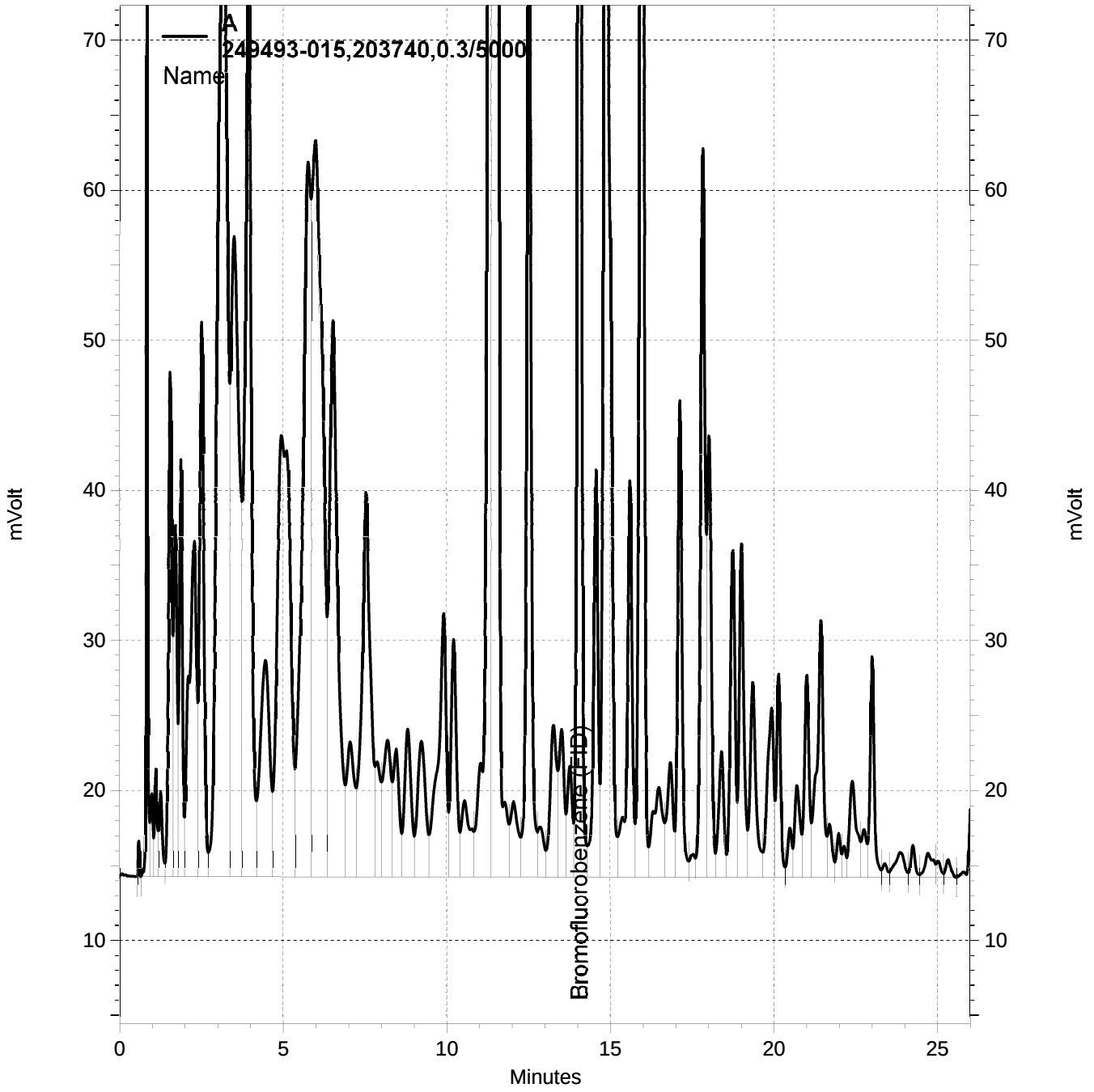
RPD= Relative Percent Difference



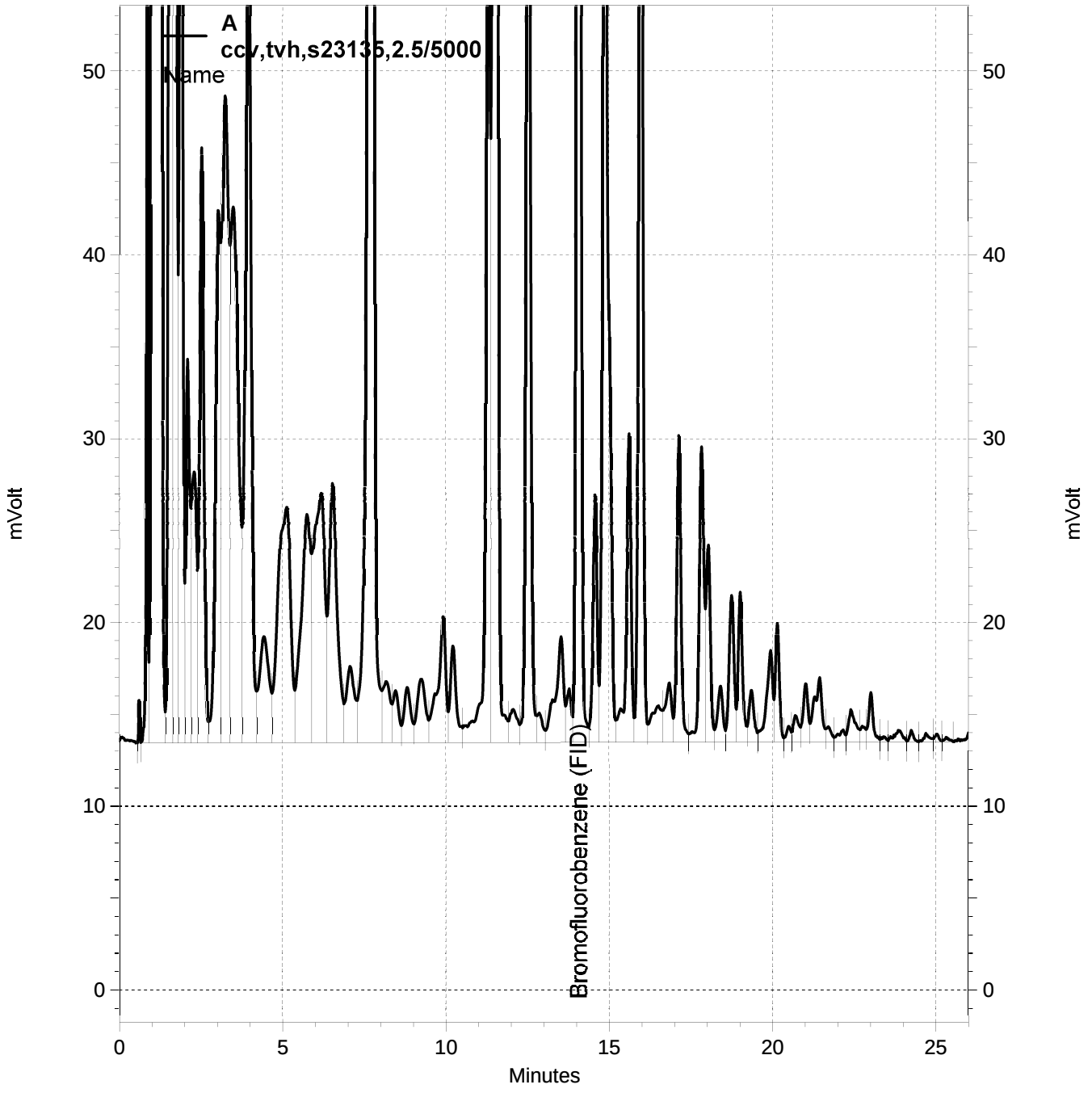
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Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Analysis:	EPA 8015B
Project#:	33113-013181.00		
Matrix:	Soil	Sampled:	09/30/13
Units:	mg/Kg	Received:	09/30/13
Basis:	as received		

Field ID:	BV-1 15.5'	Batch#:	203701
Type:	SAMPLE	Prepared:	10/03/13
Lab ID:	249493-005	Analyzed:	10/07/13
Diln Fac:	20.00	Prep:	SHAKER TABLE

Analyte	Result	RL
Diesel C10-C24	410	20
Motor Oil C24-C36	2,100	99

Surrogate	%REC	Limits
o-Terphenyl	DO	62-136

Field ID:	BV-2 11.5'	Batch#:	203865
Type:	SAMPLE	Prepared:	10/09/13
Lab ID:	249493-010	Analyzed:	10/10/13
Diln Fac:	10.00	Prep:	EPA 3550B

Analyte	Result	RL
Diesel C10-C24	1,100	9.9
Motor Oil C24-C36	4,100	50

Surrogate	%REC	Limits
o-Terphenyl	DO	62-136

Field ID:	BV-3 11.5'	Batch#:	203701
Type:	SAMPLE	Prepared:	10/03/13
Lab ID:	249493-015	Analyzed:	10/07/13
Diln Fac:	100.0	Prep:	SHAKER TABLE

Analyte	Result	RL
Diesel C10-C24	24,000	400
Motor Oil C24-C36	52,000	2,000

Surrogate	%REC	Limits
o-Terphenyl	DO	62-136

Type:	BLANK	Prepared:	10/03/13
Lab ID:	QC710397	Analyzed:	10/07/13
Diln Fac:	1.000	Prep:	SHAKER TABLE
Batch#:	203701		

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	89	62-136

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

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Analysis:	EPA 8015B
Project#:	33113-013181.00		
Matrix:	Soil	Sampled:	09/30/13
Units:	mg/Kg	Received:	09/30/13
Basis:	as received		

Type:	BLANK	Prepared:	10/09/13
Lab ID:	QC711090	Analyzed:	10/10/13
Diln Fac:	1.000	Prep:	EPA 3550B
Batch#:	203865		

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	120	62-136

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

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	SHAKER TABLE
Project#:	33113-013181.00	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC710398	Batch#:	203701
Matrix:	Soil	Prepared:	10/03/13
Units:	mg/Kg	Analyzed:	10/07/13

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.68	41.20	83	62-130

Surrogate	%REC	Limits
o-Terphenyl	91	62-136

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	SHAKER TABLE
Project#:	33113-013181.00	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	203701
MSS Lab ID:	249311-023	Sampled:	09/20/13
Matrix:	Soil	Received:	09/24/13
Units:	mg/Kg	Prepared:	10/03/13
Basis:	as received	Analyzed:	10/07/13
Diln Fac:	1.000		

Type: MS Lab ID: QC710399

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	0.8860	49.63	35.20	69	39-148

Surrogate	%REC	Limits
o-Terphenyl	82	62-136

Type: MSD Lab ID: QC710400

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.05	41.13	80	39-148	15	45

Surrogate	%REC	Limits
o-Terphenyl	91	62-136

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3550B
Project#:	33113-013181.00	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC711091	Batch#:	203865
Matrix:	Soil	Prepared:	10/09/13
Units:	mg/Kg	Analyzed:	10/09/13

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.27	50.63	101	62-130

Surrogate	%REC	Limits
o-Terphenyl	113	62-136

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3550B
Project#:	33113-013181.00	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	203865
MSS Lab ID:	249461-010	Sampled:	09/27/13
Matrix:	Soil	Received:	09/27/13
Units:	mg/Kg	Prepared:	10/09/13
Basis:	as received	Analyzed:	10/10/13
Diln Fac:	1.000		

Type: MS Lab ID: QC711092

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	16.60	49.77	55.95	79	39-148

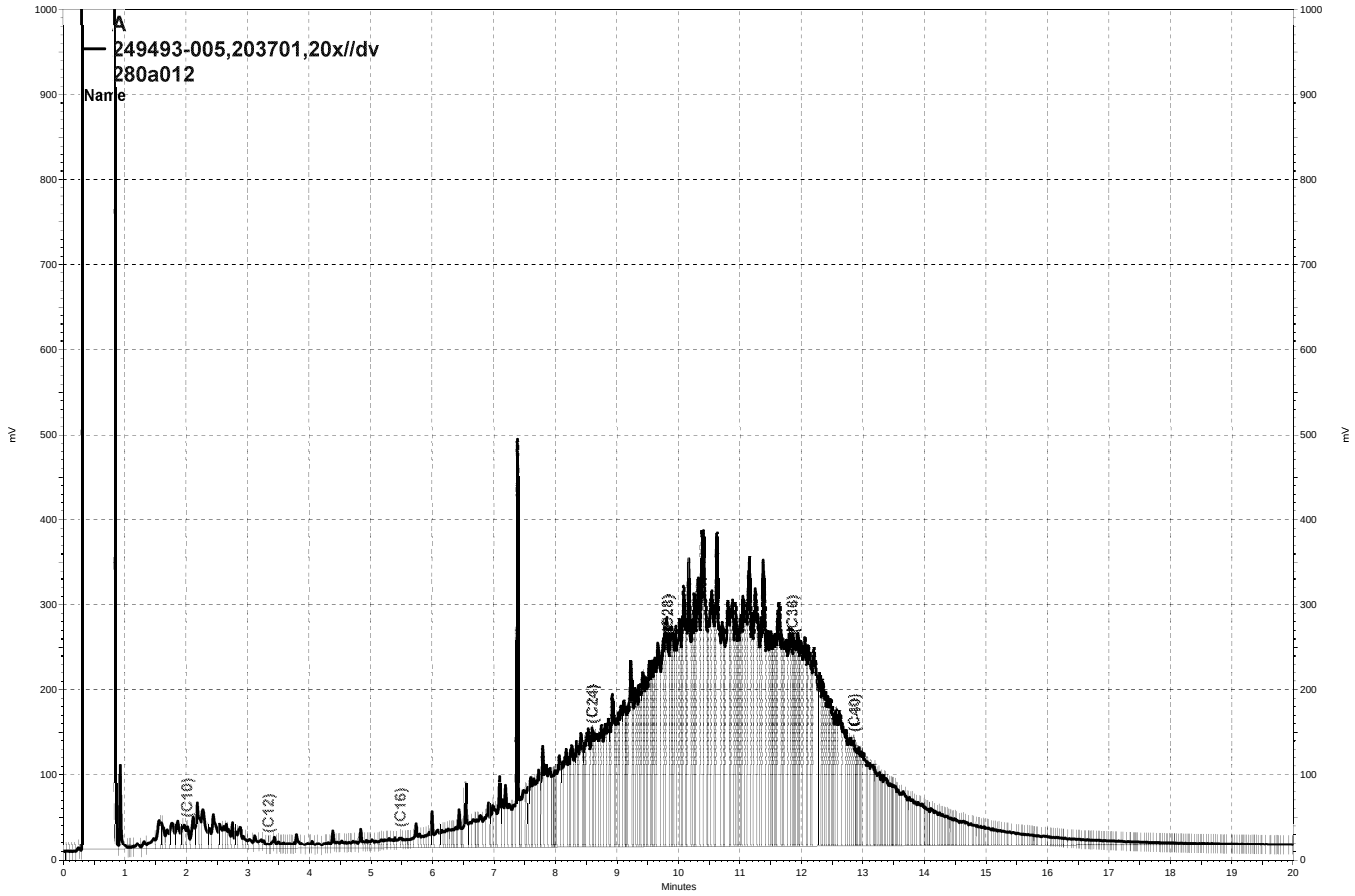
Surrogate	%REC	Limits
o-Terphenyl	118	62-136

Type: MSD Lab ID: QC711093

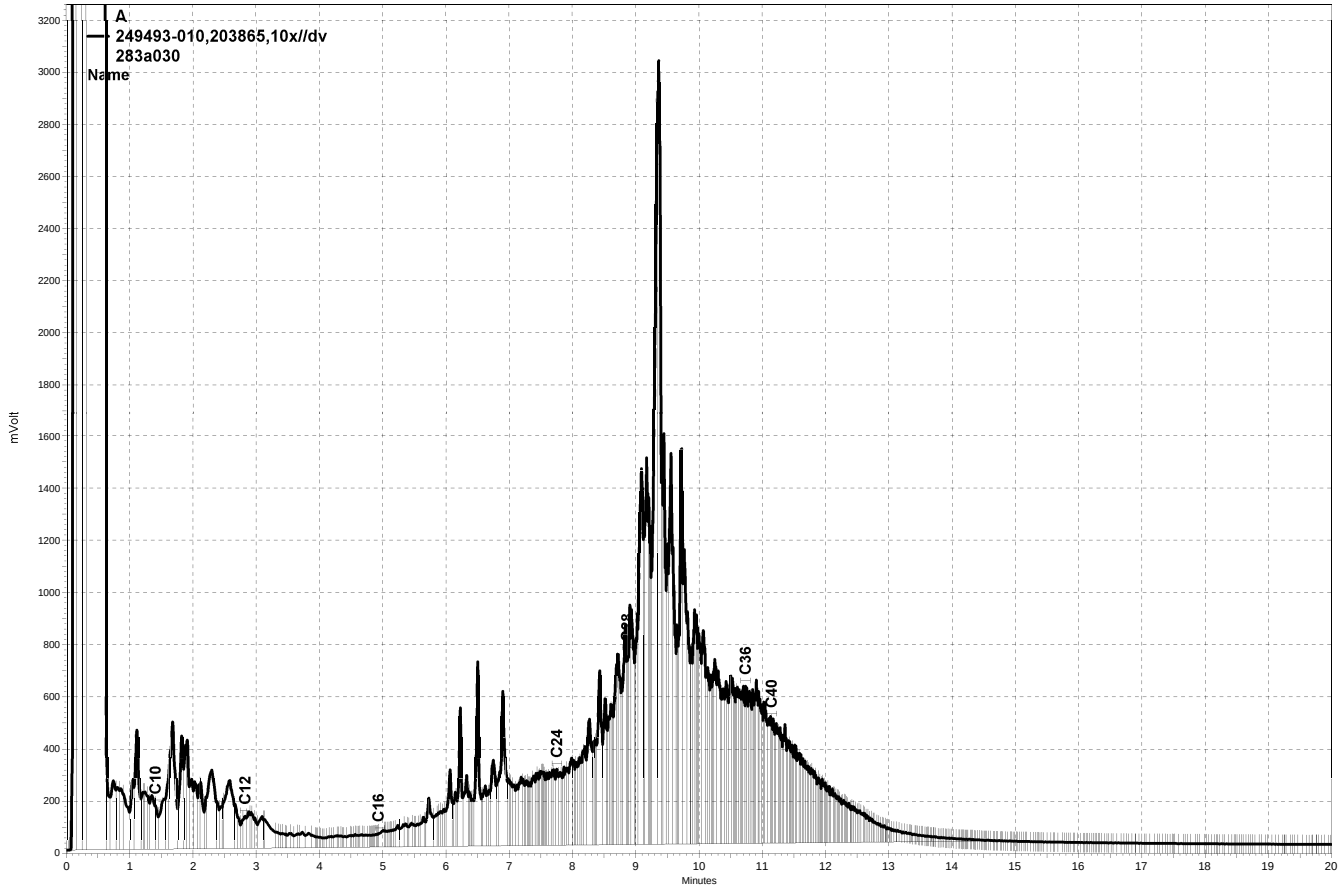
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.81	55.55	78	39-148	1	45

Surrogate	%REC	Limits
o-Terphenyl	116	62-136

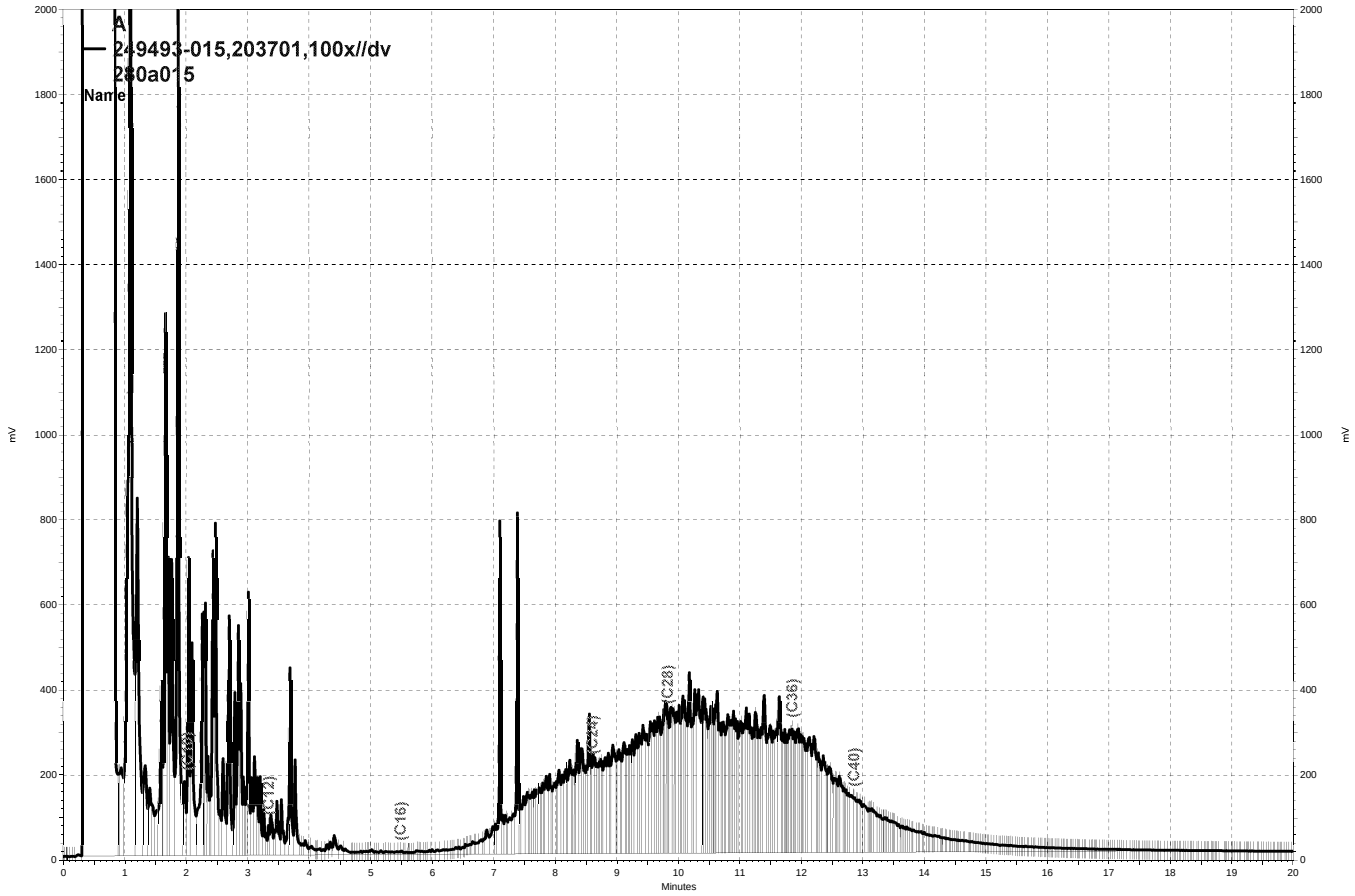
RPD= Relative Percent Difference



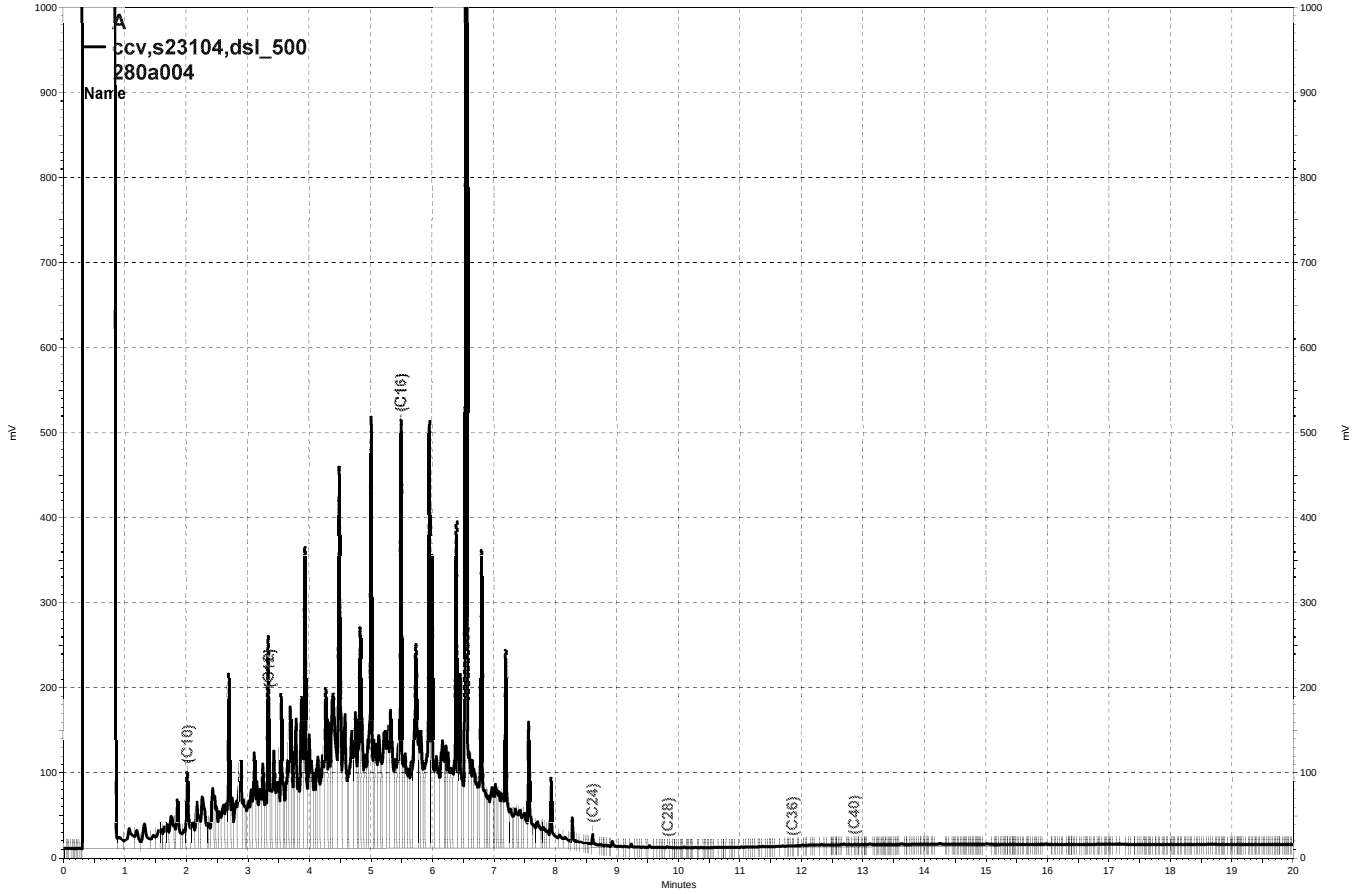
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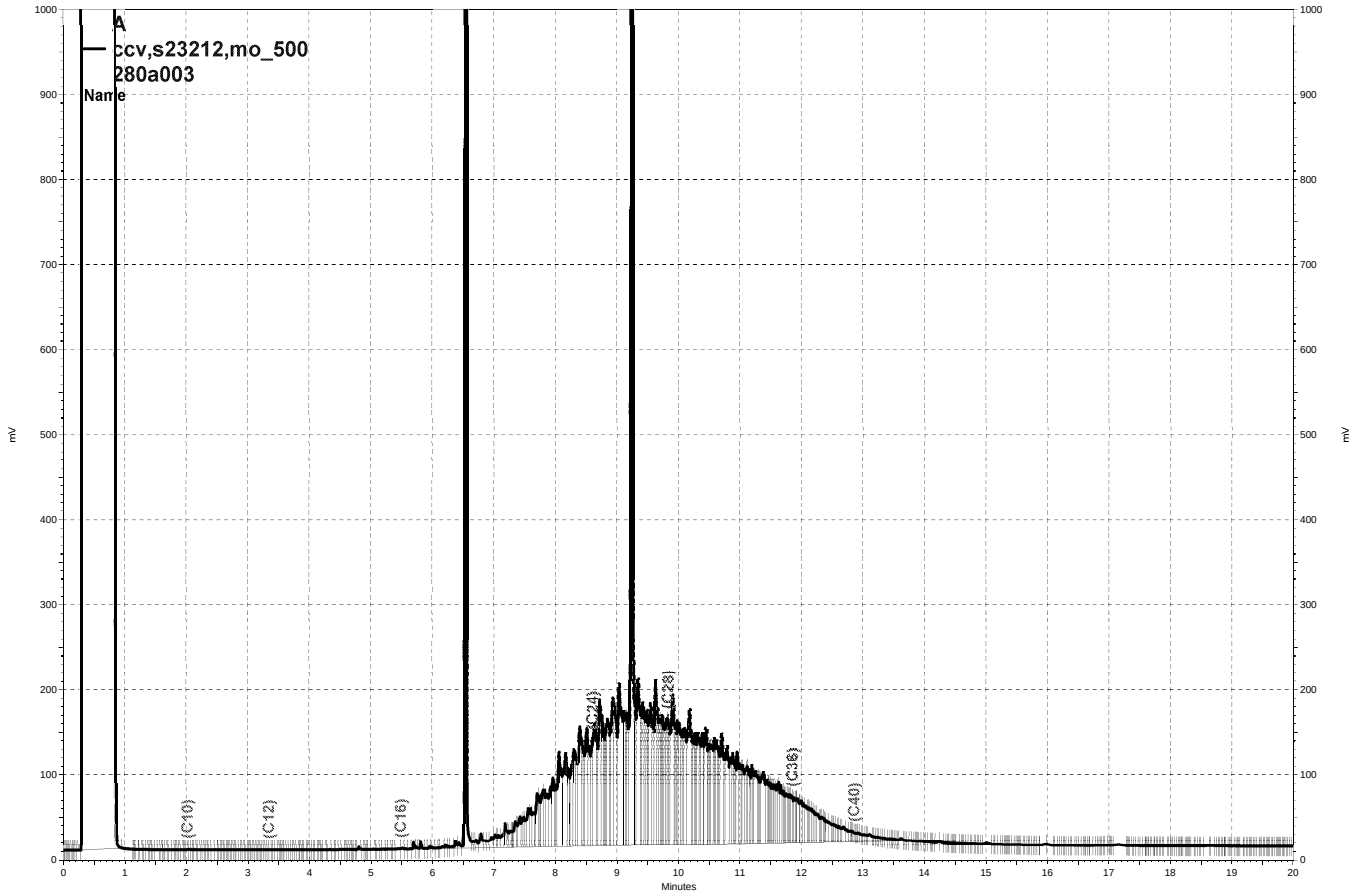
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Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 5035
Project#:	33113-013181.00	Analysis:	EPA 8260B
Field ID:	BV-1 15.5'	Basis:	as received
Lab ID:	249493-005	Sampled:	09/30/13
Matrix:	Soil	Received:	09/30/13
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	2,500	250.0	203683	10/03/13
Chloromethane	ND	2,500	250.0	203683	10/03/13
Vinyl Chloride	ND	2,500	250.0	203683	10/03/13
Bromomethane	ND	2,500	250.0	203683	10/03/13
Chloroethane	ND	2,500	250.0	203683	10/03/13
Trichlorofluoromethane	ND	1,300	250.0	203683	10/03/13
Acetone	ND	5,000	250.0	203683	10/03/13
Freon 113	ND	1,300	250.0	203683	10/03/13
1,1-Dichloroethene	ND	1,300	250.0	203683	10/03/13
Methylene Chloride	ND	5,000	250.0	203683	10/03/13
Carbon Disulfide	ND	1,300	250.0	203683	10/03/13
MTBE	ND	1,300	250.0	203683	10/03/13
trans-1,2-Dichloroethene	ND	1,300	250.0	203683	10/03/13
Vinyl Acetate	ND	13,000	250.0	203683	10/03/13
1,1-Dichloroethane	ND	1,300	250.0	203683	10/03/13
2-Butanone	ND	2,500	250.0	203683	10/03/13
cis-1,2-Dichloroethene	ND	1,300	250.0	203683	10/03/13
2,2-Dichloropropane	ND	1,300	250.0	203683	10/03/13
Chloroform	ND	1,300	250.0	203683	10/03/13
Bromochloromethane	ND	1,300	250.0	203683	10/03/13
1,1,1-Trichloroethane	ND	1,300	250.0	203683	10/03/13
1,1-Dichloropropene	ND	1,300	250.0	203683	10/03/13
Carbon Tetrachloride	ND	1,300	250.0	203683	10/03/13
1,2-Dichloroethane	ND	1,300	250.0	203683	10/03/13
Benzene	17,000	1,300	250.0	203683	10/03/13
Trichloroethene	ND	1,300	250.0	203683	10/03/13
1,2-Dichloropropane	ND	1,300	250.0	203683	10/03/13
Bromodichloromethane	ND	1,300	250.0	203683	10/03/13
Dibromomethane	ND	1,300	250.0	203683	10/03/13
4-Methyl-2-Pentanone	ND	2,500	250.0	203683	10/03/13
cis-1,3-Dichloropropene	ND	1,300	250.0	203683	10/03/13
Toluene	12,000	1,300	250.0	203683	10/03/13
trans-1,3-Dichloropropene	ND	1,300	250.0	203683	10/03/13
1,1,2-Trichloroethane	ND	1,300	250.0	203683	10/03/13
2-Hexanone	ND	2,500	250.0	203683	10/03/13
1,3-Dichloropropane	ND	1,300	250.0	203683	10/03/13
Tetrachloroethene	ND	1,300	250.0	203683	10/03/13
Dibromochloromethane	ND	1,300	250.0	203683	10/03/13

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 5035
Project#:	33113-013181.00	Analysis:	EPA 8260B
Field ID:	BV-1 15.5'	Basis:	as received
Lab ID:	249493-005	Sampled:	09/30/13
Matrix:	Soil	Received:	09/30/13
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
1,2-Dibromoethane	ND	1,300	250.0	203683	10/03/13
Chlorobenzene	ND	1,300	250.0	203683	10/03/13
1,1,1,2-Tetrachloroethane	ND	1,300	250.0	203683	10/03/13
Ethylbenzene	150,000	10,000	2,000	203734	10/04/13
m,p-Xylenes	480,000	10,000	2,000	203734	10/04/13
o-Xylene	85,000	10,000	2,000	203734	10/04/13
Styrene	ND	1,300	250.0	203683	10/03/13
Bromoform	ND	1,300	250.0	203683	10/03/13
Isopropylbenzene	21,000	1,300	250.0	203683	10/03/13
1,1,2,2-Tetrachloroethane	ND	1,300	250.0	203683	10/03/13
1,2,3-Trichloropropane	ND	1,300	250.0	203683	10/03/13
Propylbenzene	85,000	10,000	2,000	203734	10/04/13
Bromobenzene	ND	1,300	250.0	203683	10/03/13
1,3,5-Trimethylbenzene	89,000	10,000	2,000	203734	10/04/13
2-Chlorotoluene	ND	1,300	250.0	203683	10/03/13
4-Chlorotoluene	ND	1,300	250.0	203683	10/03/13
tert-Butylbenzene	ND	1,300	250.0	203683	10/03/13
1,2,4-Trimethylbenzene	330,000	10,000	2,000	203734	10/04/13
sec-Butylbenzene	8,500	1,300	250.0	203683	10/03/13
para-Isopropyl Toluene	5,200	1,300	250.0	203683	10/03/13
1,3-Dichlorobenzene	ND	1,300	250.0	203683	10/03/13
1,4-Dichlorobenzene	ND	1,300	250.0	203683	10/03/13
n-Butylbenzene	35,000	1,300	250.0	203683	10/03/13
1,2-Dichlorobenzene	ND	1,300	250.0	203683	10/03/13
1,2-Dibromo-3-Chloropropane	ND	1,300	250.0	203683	10/03/13
1,2,4-Trichlorobenzene	ND	1,300	250.0	203683	10/03/13
Hexachlorobutadiene	ND	1,300	250.0	203683	10/03/13
Naphthalene	46,000	1,300	250.0	203683	10/03/13
1,2,3-Trichlorobenzene	ND	1,300	250.0	203683	10/03/13

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	84	80-124	250.0	203683	10/03/13
1,2-Dichloroethane-d4	104	80-137	250.0	203683	10/03/13
Toluene-d8	83	80-120	250.0	203683	10/03/13
Bromofluorobenzene	108	79-127	250.0	203683	10/03/13
Trifluorotoluene (MeOH)	118	46-140	250.0	203683	10/03/13

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 5035
Project#:	33113-013181.00	Analysis:	EPA 8260B
Field ID:	BV-2 11.5'	Diln Fac:	50.00
Lab ID:	249493-010	Batch#:	203683
Matrix:	Soil	Sampled:	09/30/13
Units:	ug/Kg	Received:	09/30/13
Basis:	as received	Analyzed:	10/03/13

Analyte	Result	RL
Freon 12	ND	500
Chloromethane	ND	500
Vinyl Chloride	ND	500
Bromomethane	ND	500
Chloroethane	ND	500
Trichlorofluoromethane	ND	250
Acetone	ND	1,000
Freon 113	ND	250
1,1-Dichloroethene	ND	250
Methylene Chloride	ND	1,000
Carbon Disulfide	ND	250
MTBE	ND	250
trans-1,2-Dichloroethene	ND	250
Vinyl Acetate	ND	2,500
1,1-Dichloroethane	ND	250
2-Butanone	ND	500
cis-1,2-Dichloroethene	ND	250
2,2-Dichloropropane	ND	250
Chloroform	ND	250
Bromochloromethane	ND	250
1,1,1-Trichloroethane	ND	250
1,1-Dichloropropene	ND	250
Carbon Tetrachloride	ND	250
1,2-Dichloroethane	ND	250
Benzene	ND	250
Trichloroethene	ND	250
1,2-Dichloropropane	ND	250
Bromodichloromethane	ND	250
Dibromomethane	ND	250
4-Methyl-2-Pentanone	ND	500
cis-1,3-Dichloropropene	ND	250
Toluene	280	250
trans-1,3-Dichloropropene	ND	250
1,1,2-Trichloroethane	ND	250
2-Hexanone	ND	500
1,3-Dichloropropane	ND	250
Tetrachloroethene	ND	250

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 5035
Project#:	33113-013181.00	Analysis:	EPA 8260B
Field ID:	BV-2 11.5'	Diln Fac:	50.00
Lab ID:	249493-010	Batch#:	203683
Matrix:	Soil	Sampled:	09/30/13
Units:	ug/Kg	Received:	09/30/13
Basis:	as received	Analyzed:	10/03/13

Analyte	Result	RL
Dibromochloromethane	ND	250
1,2-Dibromoethane	ND	250
Chlorobenzene	ND	250
1,1,1,2-Tetrachloroethane	ND	250
Ethylbenzene	ND	250
m,p-Xylenes	2,200	250
o-Xylene	290	250
Styrene	ND	250
Bromoform	ND	250
Isopropylbenzene	400	250
1,1,2,2-Tetrachloroethane	ND	250
1,2,3-Trichloropropane	ND	250
Propylbenzene	420	250
Bromobenzene	ND	250
1,3,5-Trimethylbenzene	350	250
2-Chlorotoluene	ND	250
4-Chlorotoluene	ND	250
tert-Butylbenzene	ND	250
1,2,4-Trimethylbenzene	320	250
sec-Butylbenzene	420	250
para-Isopropyl Toluene	ND	250
1,3-Dichlorobenzene	ND	250
1,4-Dichlorobenzene	ND	250
n-Butylbenzene	740	250
1,2-Dichlorobenzene	ND	250
1,2-Dibromo-3-Chloropropane	ND	250
1,2,4-Trichlorobenzene	ND	250
Hexachlorobutadiene	ND	250
Naphthalene	ND	250
1,2,3-Trichlorobenzene	ND	250

Surrogate	%REC	Limits
Dibromofluoromethane	89	80-124
1,2-Dichloroethane-d4	102	80-137
Toluene-d8	91	80-120
Bromofluorobenzene	98	79-127
Trifluorotoluene (MeOH)	81	46-140

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 5035
Project#:	33113-013181.00	Analysis:	EPA 8260B
Field ID:	BV-3 11.5'	Basis:	as received
Lab ID:	249493-015	Sampled:	09/30/13
Matrix:	Soil	Received:	09/30/13
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	25,000	2,500	203683	10/03/13
Chloromethane	ND	25,000	2,500	203683	10/03/13
Vinyl Chloride	ND	25,000	2,500	203683	10/03/13
Bromomethane	ND	25,000	2,500	203683	10/03/13
Chloroethane	ND	25,000	2,500	203683	10/03/13
Trichlorofluoromethane	ND	13,000	2,500	203683	10/03/13
Acetone	ND	50,000	2,500	203683	10/03/13
Freon 113	ND	13,000	2,500	203683	10/03/13
1,1-Dichloroethene	ND	13,000	2,500	203683	10/03/13
Methylene Chloride	ND	50,000	2,500	203683	10/03/13
Carbon Disulfide	ND	13,000	2,500	203683	10/03/13
MTBE	ND	13,000	2,500	203683	10/03/13
trans-1,2-Dichloroethene	ND	13,000	2,500	203683	10/03/13
Vinyl Acetate	ND	130,000	2,500	203683	10/03/13
1,1-Dichloroethane	ND	13,000	2,500	203683	10/03/13
2-Butanone	ND	25,000	2,500	203683	10/03/13
cis-1,2-Dichloroethene	ND	13,000	2,500	203683	10/03/13
2,2-Dichloropropane	ND	13,000	2,500	203683	10/03/13
Chloroform	ND	13,000	2,500	203683	10/03/13
Bromochloromethane	ND	13,000	2,500	203683	10/03/13
1,1,1-Trichloroethane	ND	13,000	2,500	203683	10/03/13
1,1-Dichloropropene	ND	13,000	2,500	203683	10/03/13
Carbon Tetrachloride	ND	13,000	2,500	203683	10/03/13
1,2-Dichloroethane	ND	13,000	2,500	203683	10/03/13
Benzene	390,000	13,000	2,500	203683	10/03/13
Trichloroethene	ND	13,000	2,500	203683	10/03/13
1,2-Dichloropropane	ND	13,000	2,500	203683	10/03/13
Bromodichloromethane	ND	13,000	2,500	203683	10/03/13
Dibromomethane	ND	13,000	2,500	203683	10/03/13
4-Methyl-2-Pentanone	ND	25,000	2,500	203683	10/03/13
cis-1,3-Dichloropropene	ND	13,000	2,500	203683	10/03/13
Toluene	100,000	13,000	2,500	203683	10/03/13
trans-1,3-Dichloropropene	ND	13,000	2,500	203683	10/03/13
1,1,2-Trichloroethane	ND	13,000	2,500	203683	10/03/13
2-Hexanone	ND	25,000	2,500	203683	10/03/13
1,3-Dichloropropane	ND	13,000	2,500	203683	10/03/13
Tetrachloroethene	ND	13,000	2,500	203683	10/03/13

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

Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 5035
Project#:	33113-013181.00	Analysis:	EPA 8260B
Field ID:	BV-3 11.5'	Basis:	as received
Lab ID:	249493-015	Sampled:	09/30/13
Matrix:	Soil	Received:	09/30/13
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Dibromochloromethane	ND	13,000	2,500	203683	10/03/13
1,2-Dibromoethane	ND	13,000	2,500	203683	10/03/13
Chlorobenzene	ND	13,000	2,500	203683	10/03/13
1,1,1,2-Tetrachloroethane	ND	13,000	2,500	203683	10/03/13
Ethylbenzene	650,000	100,000	20,000	203734	10/04/13
m,p-Xylenes	2,500,000	100,000	20,000	203734	10/04/13
o-Xylene	450,000	100,000	20,000	203734	10/04/13
Styrene	ND	13,000	2,500	203683	10/03/13
Bromoform	ND	13,000	2,500	203683	10/03/13
Isopropylbenzene	64,000	13,000	2,500	203683	10/03/13
1,1,2,2-Tetrachloroethane	ND	13,000	2,500	203683	10/03/13
1,2,3-Trichloropropane	ND	13,000	2,500	203683	10/03/13
Propylbenzene	230,000	13,000	2,500	203683	10/03/13
Bromobenzene	ND	13,000	2,500	203683	10/03/13
1,3,5-Trimethylbenzene	370,000	13,000	2,500	203683	10/03/13
2-Chlorotoluene	ND	13,000	2,500	203683	10/03/13
4-Chlorotoluene	ND	13,000	2,500	203683	10/03/13
tert-Butylbenzene	ND	13,000	2,500	203683	10/03/13
1,2,4-Trimethylbenzene	1,000,000	100,000	20,000	203734	10/04/13
sec-Butylbenzene	26,000	13,000	2,500	203683	10/03/13
para-Isopropyl Toluene	17,000	13,000	2,500	203683	10/03/13
1,3-Dichlorobenzene	ND	13,000	2,500	203683	10/03/13
1,4-Dichlorobenzene	ND	13,000	2,500	203683	10/03/13
n-Butylbenzene	100,000	13,000	2,500	203683	10/03/13
1,2-Dichlorobenzene	ND	13,000	2,500	203683	10/03/13
1,2-Dibromo-3-Chloropropane	ND	13,000	2,500	203683	10/03/13
1,2,4-Trichlorobenzene	ND	13,000	2,500	203683	10/03/13
Hexachlorobutadiene	ND	13,000	2,500	203683	10/03/13
Naphthalene	240,000	13,000	2,500	203683	10/03/13
1,2,3-Trichlorobenzene	ND	13,000	2,500	203683	10/03/13

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	87	80-124	2,500	203683	10/03/13
1,2-Dichloroethane-d4	99	80-137	2,500	203683	10/03/13
Toluene-d8	88	80-120	2,500	203683	10/03/13
Bromofluorobenzene	91	79-127	2,500	203683	10/03/13
Trifluorotoluene (MeOH)	DO	46-140	2,500	203683	10/03/13

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

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 5035
Project#:	33113-013181.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC710313	Batch#:	203683
Matrix:	Soil	Analyzed:	10/03/13
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 5035
Project#:	33113-013181.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC710313	Batch#:	203683
Matrix:	Soil	Analyzed:	10/03/13
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-124
1,2-Dichloroethane-d4	99	80-137
Toluene-d8	97	80-120
Bromofluorobenzene	95	79-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 5035
Project#:	33113-013181.00	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	203683
Units:	ug/Kg	Analyzed:	10/03/13
Diln Fac:	1.000		

Type: BS Lab ID: QC710314

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	23.99	96	67-132
Benzene	25.00	24.99	100	77-126
Trichloroethene	25.00	24.47	98	76-127
Toluene	25.00	24.41	98	76-124
Chlorobenzene	25.00	25.57	102	76-120

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-124
1,2-Dichloroethane-d4	100	80-137
Toluene-d8	96	80-120
Bromofluorobenzene	91	79-127

Type: BSD Lab ID: QC710315

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	25.09	100	67-132	5	27
Benzene	25.00	25.98	104	77-126	4	20
Trichloroethene	25.00	25.63	103	76-127	5	22
Toluene	25.00	24.73	99	76-124	1	26
Chlorobenzene	25.00	26.44	106	76-120	3	21

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-124
1,2-Dichloroethane-d4	98	80-137
Toluene-d8	93	80-120
Bromofluorobenzene	90	79-127

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 5035
Project#:	33113-013181.00	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	203734
Units:	ug/Kg	Analyzed:	10/04/13
Diln Fac:	1.000		

Type: BS Lab ID: QC710538

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	11.52	92	67-132
Benzene	12.50	13.55	108	77-126
Trichloroethene	12.50	10.98	88	76-127
Toluene	12.50	12.05	96	76-124
Chlorobenzene	12.50	14.28	114	76-120

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-124
1,2-Dichloroethane-d4	115	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	88	79-127

Type: BSD Lab ID: QC710539

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	11.82	95	67-132	3	27
Benzene	12.50	13.42	107	77-126	1	20
Trichloroethene	12.50	12.40	99	76-127	12	22
Toluene	12.50	12.24	98	76-124	2	26
Chlorobenzene	12.50	14.75	118	76-120	3	21

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-124
1,2-Dichloroethane-d4	116	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	88	79-127

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 5035
Project#:	33113-013181.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC710540	Batch#:	203734
Matrix:	Soil	Analyzed:	10/04/13
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 5035
Project#:	33113-013181.00	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC710540	Batch#:	203734
Matrix:	Soil	Analyzed:	10/04/13
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-124
1,2-Dichloroethane-d4	108	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	87	79-127

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3550B
Project#:	33113-013181.00	Analysis:	EPA 8270C
Field ID:	BV-1 15.5'	Batch#:	203890
Lab ID:	249493-005	Sampled:	09/30/13
Matrix:	Soil	Received:	09/30/13
Units:	ug/Kg	Prepared:	10/09/13
Basis:	as received	Analyzed:	10/10/13
Diln Fac:	2.000		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	660
Phenol	ND	660
bis(2-Chloroethyl)ether	ND	660
2-Chlorophenol	ND	660
1,3-Dichlorobenzene	ND	660
1,4-Dichlorobenzene	ND	660
Benzyl alcohol	ND	660
1,2-Dichlorobenzene	ND	660
2-Methylphenol	ND	660
bis(2-Chloroisopropyl) ether	ND	660
4-Methylphenol	ND	660
N-Nitroso-di-n-propylamine	ND	660
Hexachloroethane	ND	660
Nitrobenzene	ND	660
Isophorone	ND	660
2-Nitrophenol	ND	1,300
2,4-Dimethylphenol	ND	660
Benzoic acid	ND	3,300
bis(2-Chloroethoxy)methane	ND	660
2,4-Dichlorophenol	ND	660
1,2,4-Trichlorobenzene	ND	660
Naphthalene	ND	130
4-Chloroaniline	ND	660
Hexachlorobutadiene	ND	660
4-Chloro-3-methylphenol	ND	660
2-Methylnaphthalene	ND	130
Hexachlorocyclopentadiene	ND	1,300
2,4,6-Trichlorophenol	ND	660
2,4,5-Trichlorophenol	ND	660
2-Chloronaphthalene	ND	660
2-Nitroaniline	ND	1,300
Dimethylphthalate	ND	660
Acenaphthylene	ND	130
2,6-Dinitrotoluene	ND	660
3-Nitroaniline	ND	1,300
Acenaphthene	ND	130
2,4-Dinitrophenol	ND	1,300
4-Nitrophenol	ND	1,300
Dibenzofuran	ND	660
2,4-Dinitrotoluene	ND	660
Diethylphthalate	ND	660
Fluorene	ND	130
4-Chlorophenyl-phenylether	ND	660
4-Nitroaniline	ND	1,300
4,6-Dinitro-2-methylphenol	ND	1,300
N-Nitrosodiphenylamine	ND	660
Azobenzene	ND	660
4-Bromophenyl-phenylether	ND	660
Hexachlorobenzene	ND	660
Pentachlorophenol	ND	1,300
Phenanthrene	ND	130
Anthracene	ND	130
Di-n-butylphthalate	ND	660

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3550B
Project#:	33113-013181.00	Analysis:	EPA 8270C
Field ID:	BV-1 15.5'	Batch#:	203890
Lab ID:	249493-005	Sampled:	09/30/13
Matrix:	Soil	Received:	09/30/13
Units:	ug/Kg	Prepared:	10/09/13
Basis:	as received	Analyzed:	10/10/13
Diln Fac:	2.000		

Analyte	Result	RL
Fluoranthene	ND	130
Pyrene	ND	130
Butylbenzylphthalate	ND	660
3,3'-Dichlorobenzidine	ND	1,300
Benzo(a)anthracene	ND	130
Chrysene	ND	130
bis(2-Ethylhexyl)phthalate	ND	660
Di-n-octylphthalate	ND	660
Benzo(b)fluoranthene	ND	130
Benzo(k)fluoranthene	ND	130
Benzo(a)pyrene	ND	130
Indeno(1,2,3-cd)pyrene	ND	130
Dibenz(a,h)anthracene	ND	130
Benzo(g,h,i)perylene	ND	130

Surrogate	%REC	Limits
2-Fluorophenol	78	35-120
Phenol-d5	85	39-120
2,4,6-Tribromophenol	77	39-120
Nitrobenzene-d5	85	49-120
2-Fluorobiphenyl	86	52-120
Terphenyl-d14	87	48-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3550B
Project#:	33113-013181.00	Analysis:	EPA 8270C
Field ID:	BV-2 11.5'	Batch#:	203890
Lab ID:	249493-010	Sampled:	09/30/13
Matrix:	Soil	Received:	09/30/13
Units:	ug/Kg	Prepared:	10/09/13
Basis:	as received	Analyzed:	10/10/13
Diln Fac:	25.00		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	8,300
Phenol	ND	8,300
bis(2-Chloroethyl)ether	ND	8,300
2-Chlorophenol	ND	8,300
1,3-Dichlorobenzene	ND	8,300
1,4-Dichlorobenzene	ND	8,300
Benzyl alcohol	ND	8,300
1,2-Dichlorobenzene	ND	8,300
2-Methylphenol	ND	8,300
bis(2-Chloroisopropyl) ether	ND	8,300
4-Methylphenol	ND	8,300
N-Nitroso-di-n-propylamine	ND	8,300
Hexachloroethane	ND	8,300
Nitrobenzene	ND	8,300
Isophorone	ND	8,300
2-Nitrophenol	ND	17,000
2,4-Dimethylphenol	ND	8,300
Benzoic acid	ND	42,000
bis(2-Chloroethoxy)methane	ND	8,300
2,4-Dichlorophenol	ND	8,300
1,2,4-Trichlorobenzene	ND	8,300
Naphthalene	ND	1,700
4-Chloroaniline	ND	8,300
Hexachlorobutadiene	ND	8,300
4-Chloro-3-methylphenol	ND	8,300
2-Methylnaphthalene	ND	1,700
Hexachlorocyclopentadiene	ND	17,000
2,4,6-Trichlorophenol	ND	8,300
2,4,5-Trichlorophenol	ND	8,300
2-Chloronaphthalene	ND	8,300
2-Nitroaniline	ND	17,000
Dimethylphthalate	ND	8,300
Acenaphthylene	ND	1,700
2,6-Dinitrotoluene	ND	8,300
3-Nitroaniline	ND	17,000
Acenaphthene	ND	1,700
2,4-Dinitrophenol	ND	17,000
4-Nitrophenol	ND	17,000
Dibenzofuran	ND	8,300
2,4-Dinitrotoluene	ND	8,300
Diethylphthalate	ND	8,300
Fluorene	ND	1,700
4-Chlorophenyl-phenylether	ND	8,300
4-Nitroaniline	ND	17,000
4,6-Dinitro-2-methylphenol	ND	17,000
N-Nitrosodiphenylamine	ND	8,300
Azobenzene	ND	8,300
4-Bromophenyl-phenylether	ND	8,300
Hexachlorobenzene	ND	8,300
Pentachlorophenol	ND	17,000
Phenanthrene	ND	1,700
Anthracene	ND	1,700

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

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3550B
Project#:	33113-013181.00	Analysis:	EPA 8270C
Field ID:	BV-2 11.5'	Batch#:	203890
Lab ID:	249493-010	Sampled:	09/30/13
Matrix:	Soil	Received:	09/30/13
Units:	ug/Kg	Prepared:	10/09/13
Basis:	as received	Analyzed:	10/10/13
Diln Fac:	25.00		

Analyte	Result	RL
Di-n-butylphthalate	ND	8,300
Fluoranthene	ND	1,700
Pyrene	ND	1,700
Butylbenzylphthalate	ND	8,300
3,3'-Dichlorobenzidine	ND	17,000
Benzo(a)anthracene	ND	1,700
Chrysene	ND	1,700
bis(2-Ethylhexyl)phthalate	ND	8,300
Di-n-octylphthalate	ND	8,300
Benzo(b)fluoranthene	ND	1,700
Benzo(k)fluoranthene	ND	1,700
Benzo(a)pyrene	ND	1,700
Indeno(1,2,3-cd)pyrene	ND	1,700
Dibenz(a,h)anthracene	ND	1,700
Benzo(g,h,i)perylene	ND	1,700

Surrogate	%REC	Limits
2-Fluorophenol	DO	35-120
Phenol-d5	DO	39-120
2,4,6-Tribromophenol	DO	39-120
Nitrobenzene-d5	DO	49-120
2-Fluorobiphenyl	DO	52-120
Terphenyl-d14	DO	48-120

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

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3550B
Project#:	33113-013181.00	Analysis:	EPA 8270C
Field ID:	BV-3 11.5'	Batch#:	203890
Lab ID:	249493-015	Sampled:	09/30/13
Matrix:	Soil	Received:	09/30/13
Units:	ug/Kg	Prepared:	10/09/13
Basis:	as received	Analyzed:	10/10/13
Diln Fac:	50.00		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	85,000
Phenol	ND	85,000
bis(2-Chloroethyl)ether	ND	85,000
2-Chlorophenol	ND	85,000
1,3-Dichlorobenzene	ND	85,000
1,4-Dichlorobenzene	ND	85,000
Benzyl alcohol	ND	85,000
1,2-Dichlorobenzene	ND	85,000
2-Methylphenol	ND	85,000
bis(2-Chloroisopropyl) ether	ND	85,000
4-Methylphenol	ND	85,000
N-Nitroso-di-n-propylamine	ND	85,000
Hexachloroethane	ND	85,000
Nitrobenzene	ND	85,000
Isophorone	ND	85,000
2-Nitrophenol	ND	170,000
2,4-Dimethylphenol	ND	85,000
Benzoic acid	ND	420,000
bis(2-Chloroethoxy)methane	ND	85,000
2,4-Dichlorophenol	ND	85,000
1,2,4-Trichlorobenzene	ND	85,000
Naphthalene	350,000	17,000
4-Chloroaniline	ND	85,000
Hexachlorobutadiene	ND	85,000
4-Chloro-3-methylphenol	ND	85,000
2-Methylnaphthalene	350,000	17,000
Hexachlorocyclopentadiene	ND	170,000
2,4,6-Trichlorophenol	ND	85,000
2,4,5-Trichlorophenol	ND	85,000
2-Chloronaphthalene	ND	85,000
2-Nitroaniline	ND	170,000
Dimethylphthalate	ND	85,000
Acenaphthylene	ND	17,000
2,6-Dinitrotoluene	ND	85,000
3-Nitroaniline	ND	170,000
Acenaphthene	ND	17,000
2,4-Dinitrophenol	ND	170,000
4-Nitrophenol	ND	170,000
Dibenzofuran	ND	85,000
2,4-Dinitrotoluene	ND	85,000
Diethylphthalate	ND	85,000
Fluorene	ND	17,000
4-Chlorophenyl-phenylether	ND	85,000
4-Nitroaniline	ND	170,000
4,6-Dinitro-2-methylphenol	ND	170,000
N-Nitrosodiphenylamine	ND	85,000
Azobenzene	ND	85,000
4-Bromophenyl-phenylether	ND	85,000
Hexachlorobenzene	ND	85,000
Pentachlorophenol	ND	170,000
Phenanthrene	ND	17,000
Anthracene	ND	17,000

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

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3550B
Project#:	33113-013181.00	Analysis:	EPA 8270C
Field ID:	BV-3 11.5'	Batch#:	203890
Lab ID:	249493-015	Sampled:	09/30/13
Matrix:	Soil	Received:	09/30/13
Units:	ug/Kg	Prepared:	10/09/13
Basis:	as received	Analyzed:	10/10/13
Diln Fac:	50.00		

Analyte	Result	RL
Di-n-butylphthalate	ND	85,000
Fluoranthene	ND	17,000
Pyrene	ND	17,000
Butylbenzylphthalate	ND	85,000
3,3'-Dichlorobenzidine	ND	170,000
Benzo(a)anthracene	ND	17,000
Chrysene	ND	17,000
bis(2-Ethylhexyl)phthalate	ND	85,000
Di-n-octylphthalate	ND	85,000
Benzo(b)fluoranthene	ND	17,000
Benzo(k)fluoranthene	ND	17,000
Benzo(a)pyrene	ND	17,000
Indeno(1,2,3-cd)pyrene	ND	17,000
Dibenz(a,h)anthracene	ND	17,000
Benzo(g,h,i)perylene	ND	17,000

Surrogate	%REC	Limits
2-Fluorophenol	DO	35-120
Phenol-d5	DO	39-120
2,4,6-Tribromophenol	DO	39-120
Nitrobenzene-d5	DO	49-120
2-Fluorobiphenyl	DO	52-120
Terphenyl-d14	DO	48-120

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

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3550B
Project#:	33113-013181.00	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC711199	Batch#:	203890
Matrix:	Soil	Prepared:	10/09/13
Units:	ug/Kg	Analyzed:	10/10/13

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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3550B
Project#:	33113-013181.00	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC711199	Batch#:	203890
Matrix:	Soil	Prepared:	10/09/13
Units:	ug/Kg	Analyzed:	10/10/13

Analyte	Result	RL
Pyrene	ND	67
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	670
Benzo(a)anthracene	ND	67
Chrysene	ND	67
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	67
Benzo(k)fluoranthene	ND	67
Benzo(a)pyrene	ND	67
Indeno(1,2,3-cd)pyrene	ND	67
Dibenz(a,h)anthracene	ND	67
Benzo(g,h,i)perylene	ND	67

Surrogate	%REC	Limits
2-Fluorophenol	60	35-120
Phenol-d5	58	39-120
2,4,6-Tribromophenol	67	39-120
Nitrobenzene-d5	66	49-120
2-Fluorobiphenyl	80	52-120
Terphenyl-d14	75	48-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3550B
Project#:	33113-013181.00	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC711200	Batch#:	203890
Matrix:	Soil	Prepared:	10/09/13
Units:	ug/Kg	Analyzed:	10/10/13

Analyte	Spiked	Result	%REC	Limits
Phenol	2,702	2,191	81	48-120
2-Chlorophenol	2,702	2,040	76	51-120
1,4-Dichlorobenzene	2,702	2,175	81	54-120
N-Nitroso-di-n-propylamine	2,702	2,261	84	35-120
1,2,4-Trichlorobenzene	2,702	2,515	93	56-120
4-Chloro-3-methylphenol	2,702	2,365	88	61-120
Acenaphthene	1,013	853.0	84	57-120
4-Nitrophenol	2,702	2,424	90	54-120
2,4-Dinitrotoluene	2,702	2,379	88	58-120
Pentachlorophenol	2,702	2,259	84	42-120
Pyrene	1,013	979.9	97	60-120

Surrogate	%REC	Limits
2-Fluorophenol	77	35-120
Phenol-d5	77	39-120
2,4,6-Tribromophenol	103	39-120
Nitrobenzene-d5	77	49-120
2-Fluorobiphenyl	80	52-120
Terphenyl-d14	85	48-120

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3550B
Project#:	33113-013181.00	Analysis:	EPA 8270C
Field ID:	ZZZZZZZZZZ	Batch#:	203890
MSS Lab ID:	249717-005	Sampled:	10/07/13
Matrix:	Soil	Received:	10/09/13
Units:	ug/Kg	Prepared:	10/09/13
Basis:	as received	Analyzed:	10/10/13
Diln Fac:	1.000		

Type: MS Lab ID: QC711201

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<14.12	2,690	1,964	73	51-120
2-Chlorophenol	<14.70	2,690	1,907	71	52-120
1,4-Dichlorobenzene	<15.40	2,690	2,007	75	55-120
N-Nitroso-di-n-propylamine	<15.72	2,690	2,059	77	45-120
1,2,4-Trichlorobenzene	<15.78	2,690	2,389	89	57-120
4-Chloro-3-methylphenol	<16.66	2,690	2,129	79	60-120
Acenaphthene	<16.40	1,009	795.8	79	58-120
4-Nitrophenol	<142.4	2,690	2,143	80	49-120
2,4-Dinitrotoluene	<19.22	2,690	2,331	87	58-120
Pentachlorophenol	<255.6	2,690	1,863	69	23-120
Pyrene	<21.79	1,009	997.6	99	53-122

Surrogate	%REC	Limits
2-Fluorophenol	65	35-120
Phenol-d5	67	39-120
2,4,6-Tribromophenol	94	39-120
Nitrobenzene-d5	69	49-120
2-Fluorobiphenyl	85	52-120
Terphenyl-d14	87	48-120

Type: MSD Lab ID: QC711202

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	2,649	1,811	68	51-120	7	32
2-Chlorophenol	2,649	1,748	66	52-120	7	32
1,4-Dichlorobenzene	2,649	1,792	68	55-120	10	35
N-Nitroso-di-n-propylamine	2,649	1,885	71	45-120	7	35
1,2,4-Trichlorobenzene	2,649	2,209	83	57-120	6	31
4-Chloro-3-methylphenol	2,649	1,954	74	60-120	7	30
Acenaphthene	993.4	720.2	72	58-120	8	36
4-Nitrophenol	2,649	1,967	74	49-120	7	39
2,4-Dinitrotoluene	2,649	2,126	80	58-120	8	28
Pentachlorophenol	2,649	1,638	62	23-120	11	47
Pyrene	993.4	889.0	89	53-122	10	44

Surrogate	%REC	Limits
2-Fluorophenol	62	35-120
Phenol-d5	63	39-120
2,4,6-Tribromophenol	87	39-120
Nitrobenzene-d5	65	49-120
2-Fluorobiphenyl	80	52-120
Terphenyl-d14	80	48-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3550B
Project#:	33113-013181.00	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/30/13
Units:	ug/Kg	Received:	09/30/13
Basis:	as received	Prepared:	10/08/13
Batch#:	203839	Analyzed:	10/09/13

Field ID: BV-1 15.5' Lab ID: 249493-005
Type: SAMPLE Diln Fac: 1.000

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	400	12

Surrogate	%REC	Limits
TCMX	92	66-142
Decachlorobiphenyl	124	43-139

Field ID: BV-2 11.5' Lab ID: 249493-010
Type: SAMPLE Diln Fac: 5.000

Analyte	Result	RL
Aroclor-1016	ND	43
Aroclor-1221	ND	87
Aroclor-1232	ND	43
Aroclor-1242	ND	43
Aroclor-1248	ND	43
Aroclor-1254	ND	43
Aroclor-1260	ND	43

Surrogate	%REC	Limits
TCMX	116	66-142
Decachlorobiphenyl	328 *	43-139

*= Value outside of QC limits; see narrative
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Polychlorinated Biphenyls (PCBs)

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3550B
Project#:	33113-013181.00	Analysis:	EPA 8082
Matrix:	Soil	Sampled:	09/30/13
Units:	ug/Kg	Received:	09/30/13
Basis:	as received	Prepared:	10/08/13
Batch#:	203839	Analyzed:	10/09/13

Field ID:	BV-3 11.5'	Lab ID:	249493-015
Type:	SAMPLE	Diln Fac:	10.00

Analyte	Result	RL
Aroclor-1016	ND	83
Aroclor-1221	ND	170
Aroclor-1232	ND	83
Aroclor-1242	ND	83
Aroclor-1248	ND	83
Aroclor-1254	ND	83
Aroclor-1260	ND	83

Surrogate	%REC	Limits
TCMX	DO	66-142
Decachlorobiphenyl	DO	43-139

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC710982		

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	92	66-142
Decachlorobiphenyl	94	43-139

*= Value outside of QC limits; see narrative
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3550B
Project#:	33113-013181.00	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC710983	Batch#:	203839
Matrix:	Soil	Prepared:	10/08/13
Units:	ug/Kg	Analyzed:	10/09/13

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	167.3	150.6	90	64-143
Aroclor-1260	167.3	177.2	106	58-146

Surrogate	%REC	Limits
TCMX	93	66-142
Decachlorobiphenyl	107	43-139

Curtis & Tompkins, Ltd.

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3550B
Project#:	33113-013181.00	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	203839
MSS Lab ID:	249461-010	Sampled:	09/27/13
Matrix:	Soil	Received:	09/27/13
Units:	ug/Kg	Prepared:	10/08/13
Basis:	as received	Analyzed:	10/10/13
Diln Fac:	1.000		

Type: MS Lab ID: QC710984

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<0.3807	164.9	199.4	121	58-155
Aroclor-1260	<0.8618	164.9	185.8	113	35-159

Surrogate	%REC	Limits
TCMX	112	66-142
Decachlorobiphenyl	90	43-139

Type: MSD Lab ID: QC710985

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	168.1	219.2	130	58-155	8	44
Aroclor-1260	168.1	198.2	118	35-159	5	53

Surrogate	%REC	Limits
TCMX	127	66-142
Decachlorobiphenyl	92	43-139

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	249493	Project#:	33113-013181.00
Client:	Bureau Veritas North America	Location:	Au Energy
Field ID:	BV-1 15.5'	Basis:	as received
Lab ID:	249493-005	Diln Fac:	1.000
Matrix:	Soil	Sampled:	09/30/13
Units:	mg/Kg	Received:	09/30/13

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.47	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Arsenic	8.0	0.23	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Barium	95	0.23	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Beryllium	0.11	0.093	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Cadmium	0.57	0.23	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Chromium	22	0.23	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Cobalt	4.8	0.23	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Copper	12	0.24	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Lead	34	0.23	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Mercury	0.44	0.017	204199	10/18/13	10/18/13	METHOD	EPA 7471A
Molybdenum	0.57	0.23	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Nickel	18	0.23	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Selenium	ND	0.47	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Silver	ND	0.23	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Thallium	ND	0.47	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Vanadium	17	0.23	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Zinc	64	0.93	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	249493	Project#:	33113-013181.00
Client:	Bureau Veritas North America	Location:	Au Energy
Field ID:	BV-2 11.5'	Basis:	as received
Lab ID:	249493-010	Diln Fac:	1.000
Matrix:	Soil	Sampled:	09/30/13
Units:	mg/Kg	Received:	09/30/13

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.55	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Arsenic	3.1	0.27	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Barium	52	0.27	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Beryllium	ND	0.11	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Cadmium	5.1	0.27	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Chromium	41	0.27	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Cobalt	4.2	0.27	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Copper	37	0.28	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Lead	170	0.27	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Mercury	0.20	0.018	204199	10/18/13	10/18/13	METHOD	EPA 7471A
Molybdenum	1.8	0.27	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Nickel	56	0.27	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Selenium	ND	0.55	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Silver	ND	0.27	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Thallium	ND	0.55	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Vanadium	7.7	0.27	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Zinc	170	1.1	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

California Title 22 Metals

Lab #:	249493	Project#:	33113-013181.00
Client:	Bureau Veritas North America	Location:	Au Energy
Field ID:	BV-3 11.5'	Basis:	as received
Lab ID:	249493-015	Sampled:	09/30/13
Matrix:	Soil	Received:	09/30/13
Units:	mg/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	8.5	0.51	1.000	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Arsenic	7.0	0.26	1.000	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Barium	360	0.26	1.000	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Beryllium	ND	0.10	1.000	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Cadmium	4.1	0.26	1.000	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Chromium	3,400	26	100.0	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Cobalt	50	0.26	1.000	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Copper	40	0.26	1.000	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Lead	460	0.26	1.000	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Mercury	0.63	0.018	1.000	204199	10/18/13	10/18/13	METHOD	EPA 7471A
Molybdenum	1.3	0.26	1.000	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Nickel	150	0.26	1.000	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Selenium	ND	0.51	1.000	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Silver	24	0.26	1.000	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Thallium	ND	0.51	1.000	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Vanadium	7.0	0.26	1.000	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B
Zinc	9,200	100	100.0	204088	10/16/13	10/16/13	EPA 3050B	EPA 6010B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3050B
Project#:	33113-013181.00	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC712087	Batch#:	204088
Matrix:	Soil	Prepared:	10/16/13
Units:	mg/Kg	Analyzed:	10/16/13

Analyte	Result	RL
Antimony	ND	0.50
Arsenic	ND	0.25
Barium	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.25
Cobalt	ND	0.25
Copper	ND	0.26
Lead	ND	0.25
Molybdenum	ND	0.25
Nickel	ND	0.25
Selenium	ND	0.50
Silver	ND	0.25
Thallium	ND	0.50
Vanadium	ND	0.25
Zinc	ND	1.0

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3050B
Project#:	33113-013181.00	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	204088
Units:	mg/Kg	Prepared:	10/16/13
Diln Fac:	1.000	Analyzed:	10/16/13

Type: BS Lab ID: QC712088

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	95.31	95	80-120
Arsenic	50.00	47.45	95	80-120
Barium	100.0	95.40	95	80-120
Beryllium	2.500	2.370	95	80-120
Cadmium	10.00	9.660	97	80-120
Chromium	100.0	95.21	95	80-120
Cobalt	25.00	23.53	94	80-120
Copper	12.50	12.76	102	80-120
Lead	100.0	93.85	94	80-120
Molybdenum	20.00	19.47	97	80-120
Nickel	25.00	24.05	96	80-120
Selenium	50.00	45.71	91	80-120
Silver	10.00	9.246	92	80-120
Thallium	50.00	45.76	92	80-120
Vanadium	25.00	23.81	95	80-120
Zinc	25.00	23.75	95	80-120

Type: BSD Lab ID: QC712089

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	99.60	100	80-120	4	20
Arsenic	50.00	49.53	99	80-120	4	20
Barium	100.0	98.12	98	80-120	3	20
Beryllium	2.500	2.417	97	80-120	2	20
Cadmium	10.00	9.919	99	80-120	3	20
Chromium	100.0	97.59	98	80-120	2	20
Cobalt	25.00	24.14	97	80-120	3	20
Copper	12.50	13.09	105	80-120	3	20
Lead	100.0	96.38	96	80-120	3	22
Molybdenum	20.00	20.19	101	80-120	4	20
Nickel	25.00	24.77	99	80-120	3	20
Selenium	50.00	47.54	95	80-120	4	20
Silver	10.00	9.531	95	80-120	3	20
Thallium	50.00	47.44	95	80-120	4	20
Vanadium	25.00	24.49	98	80-120	3	20
Zinc	25.00	24.34	97	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3050B
Project#:	33113-013181.00	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	204088
MSS Lab ID:	249215-011	Sampled:	09/18/13
Matrix:	Soil	Received:	09/20/13
Units:	mg/Kg	Prepared:	10/16/13
Basis:	as received	Analyzed:	10/16/13
Diln Fac:	1.000		

Type: MS Lab ID: QC712090

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.1690	105.3	51.71	49	8-120
Arsenic	2.008	52.63	44.28	80	71-121
Barium	136.2	105.3	236.0	95	48-133
Beryllium	1.078	2.632	3.535	93	78-120
Cadmium	0.8700	10.53	10.19	89	69-120
Chromium	45.70	105.3	141.4	91	60-122
Cobalt	11.68	26.32	34.41	86	61-120
Copper	12.82	13.16	27.41	111	44-151
Lead	4.207	105.3	94.32	86	52-120
Molybdenum	<0.05973	21.05	16.82	80	67-120
Nickel	28.42	26.32	54.38	99	45-134
Selenium	<1.556	52.63	36.41	69	67-120
Silver	<0.07953	10.53	6.518	62 *	66-120
Thallium	<0.1734	52.63	39.32	75	62-120
Vanadium	127.3	26.32	158.5	119 NM	55-137
Zinc	55.56	26.32	87.11	120	38-146

Type: MSD Lab ID: QC712091

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	94.34	40.80	43	8-120	13	29
Arsenic	47.17	41.23	83	71-121	3	34
Barium	94.34	263.9	135 *	48-133	16	45
Beryllium	2.358	3.260	93	78-120	0	20
Cadmium	9.434	9.031	87	69-120	2	23
Chromium	94.34	128.1	87	60-122	2	34
Cobalt	23.58	40.32	121 *	61-120	23	37
Copper	11.79	27.91	128	44-151	7	35
Lead	94.34	85.62	86	52-120	1	51
Molybdenum	18.87	14.48	77	67-120	4	20
Nickel	23.58	50.40	93	45-134	2	38
Selenium	47.17	29.84	63 *	67-120	9	27
Silver	9.434	5.218	55 *	66-120	11	30
Thallium	47.17	34.22	73	62-120	3	20
Vanadium	23.58	156.2	122 NM	55-137	0	30
Zinc	23.58	97.94	180 *	38-146	15	36

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Batch QC Report

California Title 22 Metals

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	METHOD
Project#:	33113-013181.00	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	204199
Lab ID:	QC712548	Prepared:	10/18/13
Matrix:	Soil	Analyzed:	10/18/13
Units:	mg/Kg		

Result	RL
ND	0.017

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	METHOD
Project#:	33113-013181.00	Analysis:	EPA 7471A
Analyte:	Mercury	Batch#:	204199
Matrix:	Soil	Prepared:	10/18/13
Units:	mg/Kg	Analyzed:	10/18/13
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC712549	0.2083	0.2100	101	80-120		
BSD	QC712550	0.2083	0.2050	98	80-120	2	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

California Title 22 Metals

Lab #:	249493	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	METHOD
Project#:	33113-013181.00	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	204199
MSS Lab ID:	249277-001	Sampled:	09/23/13
Matrix:	Soil	Received:	09/23/13
Units:	mg/Kg	Prepared:	10/18/13
Basis:	as received	Analyzed:	10/18/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC712551	4.050	0.2016	5.339	>LR 639 NM	72-135		
MSD	QC712552		0.1953	5.492	>LR 738 NM	72-135	NC	42

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


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Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 250188
ANALYTICAL REPORT

Bureau Veritas North America	Project : 33113-013181.00
2430 Camino Ramon	Location : Au Energy
San Ramon, Ca 94583	Level : II

Sample ID	Lab ID
BV-2 13.5'	250188-001
BV-2 15.5'	250188-002

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

Signature: _____ Date: 10/28/2013

Mike J. Dahlquist
Project Manager
mike.dahlquist@ctberk.com

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**250188**
Client:	**Bureau Veritas North America**
Project:	**33113-013181.00**
Location:	**Au Energy**
Request Date:	**10/24/13**
Samples Received:	**09/30/13**

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 10/24/13. The samples were received cold and intact.

Metals (EPA 6010B) Soil:
Low recovery was observed for lead in the MSD of BV-2 13.5' (lab # 250188-001); the BS/BSD were within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Metals (EPA 6010B) TCLP Leachate:
No analytical problems were encountered.

Metals (EPA 6010B) WET Leachate:
No analytical problems were encountered.

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Chromium

Lab #:	250188	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3050B
Project#:	33113-013181.00	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	204435
Matrix:	Soil	Sampled:	09/30/13
Units:	mg/Kg	Received:	09/30/13
Basis:	as received	Prepared:	10/25/13
Diln Fac:	1.000	Analyzed:	10/27/13

Field ID	Type	Lab ID	Result	RL
BV-2 13.5'	SAMPLE	250188-001	10	0.23
BV-2 15.5'	SAMPLE	250188-002	97	0.27
	BLANK	QC713527	ND	0.25

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Lead

Lab #:	250188	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3050B
Project#:	33113-013181.00	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	204435
Matrix:	Soil	Sampled:	09/30/13
Units:	mg/Kg	Received:	09/30/13
Basis:	as received	Prepared:	10/25/13
Diln Fac:	1.000	Analyzed:	10/27/13

Field ID	Type	Lab ID	Result	RL
BV-2 13.5'	SAMPLE	250188-001	92	0.23
BV-2 15.5'	SAMPLE	250188-002	210	0.27
	BLANK	QC713527	ND	0.25

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	250188	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3050B
Project#:	33113-013181.00	Analysis:	EPA 6010B
Analyte:	Chromium	Diln Fac:	1.000
Field ID:	BV-2 13.5'	Batch#:	204435
MSS Lab ID:	250188-001	Sampled:	09/30/13
Matrix:	Soil	Received:	09/30/13
Units:	mg/Kg	Prepared:	10/25/13
Basis:	as received	Analyzed:	10/27/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC713528		100.0	105.4	105	80-120		
BSD	QC713529		100.0	107.6	108	80-120	2	20
MS	QC713530	9.990	92.59	115.0	113	60-122		
MSD	QC713531		107.5	121.7	104	60-122	8	34

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Lead

Lab #:	250188	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3050B
Project#:	33113-013181.00	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	BV-2 13.5'	Batch#:	204435
MSS Lab ID:	250188-001	Sampled:	09/30/13
Matrix:	Soil	Received:	09/30/13
Units:	mg/Kg	Prepared:	10/25/13
Basis:	as received	Analyzed:	10/27/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC713528		100.0	98.84	99	80-120		
BSD	QC713529		100.0	101.7	102	80-120	3	22
MS	QC713530	91.89	92.59	163.3	77	52-120		
MSD	QC713531		107.5	139.2	44 *	52-120	24	51

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Chromium

Lab #:	250188	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3010A
Project#:	33113-013181.00	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	09/30/13
Matrix:	TCLP Leachate	Received:	09/30/13
Units:	ug/L	Prepared:	10/26/13
Diln Fac:	10.00	Analyzed:	10/27/13
Batch#:	204455		

Field ID	Type	Lab ID	Result	RL
BV-2 13.5'	SAMPLE	250188-001	ND	50
BV-2 15.5'	SAMPLE	250188-002	ND	50
	BLANK	QC713606	ND	50
	BLANK	QC713613	ND	50

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Lead

Lab #:	250188	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3010A
Project#:	33113-013181.00	Analysis:	EPA 6010B
Analyte:	Lead	Sampled:	09/30/13
Matrix:	TCLP Leachate	Received:	09/30/13
Units:	ug/L	Prepared:	10/26/13
Diln Fac:	10.00	Analyzed:	10/27/13
Batch#:	204455		

Field ID	Type	Lab ID	Result	RL
BV-2 13.5'	SAMPLE	250188-001	520	50
BV-2 15.5'	SAMPLE	250188-002	57	50
	BLANK	QC713606	ND	50
	BLANK	QC713613	ND	50

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	250188	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3010A
Project#:	33113-013181.00	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	204455
Field ID:	ZZZZZZZZZZ	Sampled:	10/02/13
MSS Lab ID:	250160-001	Received:	10/03/13
Matrix:	TCLP Leachate	Prepared:	10/26/13
Units:	ug/L	Analyzed:	10/27/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC713607		2,000	2,090	105	80-120			1.000
BSD	QC713608		2,000	2,074	104	80-120	1	20	1.000
MS	QC713609	22.16	2,000	2,148	106	74-120			10.00
MSD	QC713610		2,000	2,179	108	74-120	1	20	10.00

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Lead

Lab #:	250188	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	EPA 3010A
Project#:	33113-013181.00	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	204455
Field ID:	ZZZZZZZZZZ	Sampled:	10/02/13
MSS Lab ID:	250160-001	Received:	10/03/13
Matrix:	TCLP Leachate	Prepared:	10/26/13
Units:	ug/L	Analyzed:	10/27/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC713607		2,000	1,970	98	78-120			1.000
BSD	QC713608		2,000	1,962	98	78-120	0	20	1.000
MS	QC713609	32.55	2,000	2,072	102	68-120			10.00
MSD	QC713610		2,000	2,076	102	68-120	0	24	10.00

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Chromium

Lab #:	250188	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	WET
Project#:	33113-013181.00	Analysis:	EPA 6010B
Analyte:	Chromium	Sampled:	09/30/13
Matrix:	WET Leachate	Received:	09/30/13
Units:	ug/L	Prepared:	10/28/13
Diln Fac:	10.00	Analyzed:	10/28/13
Batch#:	204459		

Field ID	Type	Lab ID	Result	RL
BV-2 13.5'	SAMPLE	250188-001	300	250
BV-2 15.5'	SAMPLE	250188-002	1,900	250
	BLANK	QC713625	ND	250

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Lead

Lab #:	250188	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	WET
Project#:	33113-013181.00	Analysis:	EPA 6010B
Analyte:	Lead	Sampled:	09/30/13
Matrix:	WET Leachate	Received:	09/30/13
Units:	ug/L	Prepared:	10/28/13
Diln Fac:	10.00	Analyzed:	10/28/13
Batch#:	204459		

Field ID	Type	Lab ID	Result	RL
BV-2 13.5'	SAMPLE	250188-001	3,100	250
BV-2 15.5'	SAMPLE	250188-002	ND	250
	BLANK	QC713625	ND	250

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chromium

Lab #:	250188	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	WET
Project#:	33113-013181.00	Analysis:	EPA 6010B
Analyte:	Chromium	Batch#:	204459
Field ID:	ZZZZZZZZZZ	Sampled:	10/23/13
MSS Lab ID:	250170-002	Received:	10/24/13
Matrix:	WET Leachate	Prepared:	10/28/13
Units:	ug/L	Analyzed:	10/28/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC713626		2,000	2,017	101	80-120			1.000
BSD	QC713627		2,000	2,018	101	80-120	0	20	1.000
MS	QC713628	335.2	10,000	10,140	98	74-120			10.00
MSD	QC713629		10,000	10,340	100	74-120	2	20	10.00

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Lead

Lab #:	250188	Location:	Au Energy
Client:	Bureau Veritas North America	Prep:	WET
Project#:	33113-013181.00	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	204459
Field ID:	ZZZZZZZZZZ	Sampled:	10/23/13
MSS Lab ID:	250170-002	Received:	10/24/13
Matrix:	WET Leachate	Prepared:	10/28/13
Units:	ug/L	Analyzed:	10/28/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
BS	QC713626		2,000	1,999	100	78-120			1.000
BSD	QC713627		2,000	2,011	101	78-120	1	20	1.000
MS	QC713628	148.0	10,000	9,874	97	68-120			10.00
MSD	QC713629		10,000	10,020	99	68-120	1	24	10.00

RPD= Relative Percent Difference

APPENDIX D
2013 MANIFEST DOCUMENTATION
5,000 GALLONS OF DIESEL PRODUCT RECOVERY LIQUID

WORK ORDER NO. 4B8124873 2

DOCUMENT NO. 293204 **STRAIGHT BILL OF LADING**

TRANSPORTER 1 CLEAN HARBORS ENVIRONMENTAL VEHICLE ID # _____

EPA ID # MAD039322250 TRANS. 1 PHONE (707) 747-1699

TRANSPORTER 2 _____ VEHICLE ID # _____

EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY SEAPORT ENVIRONMENTAL	SHIPPER ~~VINTNERS DISTRIBUTING~~ AJ ENERGY LLC
FACILITY EPA ID # CA9 CAD000 13572	SHIPPER EPA ID # CAL000350923
ADDRESS 679 SEAPORT BLVD	ADDRESS 41805 ALBRAE ST
CITY REDWOOD CITY STATE CA ZIP 94063	CITY FREMONT STATE CA ZIP 94538

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
1	TT		A. DIESEL FUEL 3. NA1993 PG III	5,000	G
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		

SPECIAL HANDLING INSTRUCTIONS

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER PRINT Jeremy Wilson On Behalf of AJ Energy	SIGN	DATE 10-2-13
TRANSPORTER 1 PRINT Charles Heard	SIGN Charles Heard	DATE 10-2-13
TRANSPORTER 2 PRINT	SIGN	DATE
RECEIVED BY PRINT Joaquin D Camara	SIGN	DATE 10-03-13

1

CHI 107

Seaport Environmental

NON-HAZARDOUS WATER TRANSPORT FORM

GENERATOR INFORMATION

Vintners Distrubuting
41805 Albrae St.
Fremont Ca

CUSTOMER INFORMATION

Clean Harbors Environmental
707-758-3188
PO #

DESCRIPTION OF WATER: Diesel Contaminated Water
NON-HAZARDOUS WASTE WATER, MONITORING WELL PURGE WATER AND/OR AUGER RINSATE, TANK RINSATE OR ABOVE DESCRIBED WATER. THIS WATER MAY CONTAIN DISSOLVED HYDROCARBONS. I CERTIFY THAT THE ABOVE NAMED MATERIAL IS A LIQUID EXEMPT FROM RCRA PER 40 CFR 261.4 (b)(10)AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

Consultant of Bureau Veritas
Jeremy Wilson On Behalf of AU Energy
Generator/Authorised Agent

10-2-13
sign date

SITE INFORMATION

Shell Station#2, 1800 Powell St.
Emeriville
Ca

GROSS	
TARE	
NET	
TOTAL GALLONS	5,000

Calculated at 8.34lbs per USG

TRANSPORTER INFORMATION

Clean Harbors

Truck ID: UH1510 - U2214

Driver: Charles Heard Charles Heard 10.2.13
Print full name & sign date

TIME OUT	
TIME IN	
TIME SPENT	

DISPOSAL FACILITY INFORMATION EPA ID: CAR 000239673

Seaport Environmental
679 Seaport Boulevard
Redwood City, Ca 94063
Phone: (650) 364 1024

Approval Number: 500 - 1399

Solids %Wt: Ø

pH: 7

Solids Surcharge ¢/USG:

Received by:
Print full name & sign

10-03-13
date

HTI TANK WASH

108274

PLEASE REMIT MAILING TO OFFICE
18390 O'BRIEN INLET RD.
LAKEHEAD, CA 96051
1-530-238-6845 • FAX (530) 238-6843

PLANT
9957 MEDFORD AVE., BLDG.11
OAKLAND, CA 94603
(510) 568-2009 • FAX (510) 568-2044

www.htitankwash.com

EPA #CAL000040618

DATE 10/3/2013

P.O. NUMBER	TRUCK NUMBER	TRAILER NUMBER	TRAILER NUMBER	TIME IN	AM / PM	TIME OUT	AM / PM
	01156	02214		245	~~AM~~ PM	330	AM ~~PM~~

CUSTOMER NAME AND ADDRESS OR TERMINAL: Clean harbors

COMPLETE NAME (S): LAST PRODUCT HAULED OR OTHER RESIDUE (S) IN TANK: Oil

NEXT PRODUCT TO HAUL:

CLEANING METHOD

WORK TO BE DONE				COST
WASH - CAUSTIC				
WASH - DETERGENT				
RINSE	HOT	COLD		
DRY				
STEAM				
PUMP				
NUMBER OF VALVES				
NUMBER OF FITTINGS				
HOSES ____ X ____ "				
____ X ____ "				
HAND PAD				
OTHER				
			SEWER CHARGE	
			TOTAL COST	

PLEASE REMIT MAILING TO OFFICE
18390 O'BRIEN INLET RD.
LAKEHEAD, CA 96051
1-530-238-6845 • FAX (53) 238-6843

ALL WORK INDICATED ABOVE COMPLETED
CLEANED BY: Joe/Nick

READY FOR RELEASE
CHECKED BY: Nick DATE TIME

HTI Tank Wash makes no guarantee with respect of the completeness of the washing process or the complete elimination of all residue and moisture. INSPECTION OF THE EQUIPMENT IS AGREED TO REMAIN THE RESPONSIBILITY OF THE OWNER OR AGENT and they do hereby relieve and discharge HTI Tank Wash of any responsibility, claims and demands of any kind whatsoever by any person for damages as a result of alleged improper or imcomplete cleaning of equipment. I HAVE READ AND UNDERSTOOD THE ABOVE CONDITIONS.

WORK ORDERED BY Charles Elwood (SIGNATURE OR AGENT) DATE TIME

WHO AGREES TO ALL TERMS AND CONDITIONS HEREIN.

INVOICE
Invoice No 1000176690

REMIT TO:
Clean Harbors Env. Services
PO Box 3442
Boston, MA 02241-3442

EIN: 04-2698999

OFFICE:
Clean Harbors Environmental Services, Inc
4101 Industrial Way
Benicia, CA 94510
(707) 747-6699

If you have any questions regarding this invoice, please contact your customer service representative at the telephone number listed above

SOLD TO:
Sunny Goyal
Vitners Distribution
41805 Albrae St
Attn John Ellis
Fremont, CA 94538 - 3120

JOB SITE/GENERATOR:
Powell Shell
1800 Powell St
Emeryville, CA 94608

Job Description: Emergency Response

**** Payable in USD funds ****

Last Service Date	Invoice No	Customer	Sales Order	Purchase Order	Terms
03 Oct 2013	1000176690	VI19025	4B8124872	No PO Needed	NET 30 DAYS

Last Service Date	Task	Task Type	Description	Total
02 Oct 2013	4B8124872-001	GENERAL	Emergency Response	$2,279.50
03 Oct 2013	4B8124872-002	DISPOSAL	Transportation & Disposal to Seaport	$3,235.00

	SUBTOTAL	**$5,514.50**
	TAX	**$0.00**
PLEASE PAY THIS AMOUNT →	**INVOICE TOTAL**	**$5,514.50**

Interest will be charged at a rate of 1.5% per month for all past due amounts.

Invoice Date: 14 Oct 2013

PLEASE RETURN A COPY OF INVOICE WITH PAYMENT - THANK YOU

INVOICE
Invoice No 1000176690

TASK 4B8124872-001 - Emergency Response

Manifest Info	Item ID	Description	Manifest Qty	Manifest UOM	Billing Qty	Billing UOM	Unit Price	Amount
		02 Oct 2013						
	TKPU	Pickup/Van/Car/Crew Cab			6.000	HR	21.0000	$126.00
	TRACTVAC	Tractor w/Vacuum Trailer			6.500	HR	103.0000	$669.50
	PPED1	Modified Level D (Tyvec, Gloves and Boots)			2.000	EA	30.0000	$60.00
	EMERCOMM	Communications Package			1.000	DAY	50.0000	$50.00
	SUP	Supervisor			6.000	HR	103.0000	$618.00
	EO	Equipment Operator			6.500	HR	74.0000	$481.00
	SAFETYPLAN	Safety Plan			1.000	EA	275.0000	$275.00
							SUBTOTAL	**$2,279.50**
							TAX	**$0.00**
							TASK TOTAL	**$2,279.50**

TASK 4B8124872-002 - Transportation & Disposal to Seaport

Manifest Info	Item ID	Description	Manifest Qty	Manifest UOM	Billing Qty	Billing UOM	Unit Price	Amount
		02 Oct 2013						
BOL293204 1	DISPSL / A32	diesel fuel w/ trace water 5001399	5,000	GAL	5,000.000	GAL	0.4100	$2,050.00
BOL293204	TRAN	TRANSPORTATION			1.000	EA	780.0000	$780.00
		03 Oct 2013						
	TANKWASH	Tank Wash			1.000	EA	405.0000	$405.00
							SUBTOTAL	**$3,235.00**
							TAX	**$0.00**
							TASK TOTAL	**$3,235.00**

APPENDIX E
ANALYTICAL DATA FOR CS-1 AND CS-2

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

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

TestAmerica Job ID: 720-52791-1
Client Project/Site: 1800 1/2 Powell, Emeryville, CA

For:
Bureau Veritas North America, Inc.
Bishop Ranch 6
2430 Camino Ramon Suite 122
San Ramon, California 94583

Attn: Mr. John Werfal

Authorized for release by:
10/9/2013 3:43:21 PM

Micah Smith, Project Manager I
()
micah.smith@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
QC Sample Results 8
QC Association Summary 12
Lab Chronicle 14
Certification Summary 15
Method Summary 16
Sample Summary 17
Chain of Custody 18
Receipt Checklists 19

Client: Bureau Veritas North America, Inc.
Project/Site: 1800 1/2 Powell, Emeryville, CA

TestAmerica Job ID: 720-52791-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Job ID: 720-52791-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-52791-1

Comments
No additional comments.

Receipt
The samples were received on 10/4/2013 10:52 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 11.4º C.

GC/MS VOA
Method(s) 8260B: Surrogate recoveries for samples CS-1-3.0-3.5 (720-52791-1) and CS-2-2.5-3.0 (720-52791-2) were outside control limits due to matrix. Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: (720-52791-1 MS), (720-52791-1 MSD), CS-1-3.0-3.5 (720-52791-1), CS-2-2.5-3.0 (720-52791-2).

Method(s) 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for batch 145669 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Bureau Veritas North America, Inc.
Project/Site: 1800 1/2 Powell, Emeryville, CA

TestAmerica Job ID: 720-52791-1

Client Sample ID: CS-1-3.0-3.5 — Lab Sample ID: 720-52791-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	4900		4800		ug/Kg	1000		8260B/CA_LUFT MS	Total/NA
Xylenes, Total	26000		9600		ug/Kg	1000		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	20000		200		mg/Kg	200		8015B	Silica Gel Cleanup

Client Sample ID: CS-2-2.5-3.0 — Lab Sample ID: 720-52791-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	17000		8500		ug/Kg	1000		8260B/CA_LUFT MS	Total/NA
TBA	12000		8500		ug/Kg	1000		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	7200		99		mg/Kg	100		8015B	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Bureau Veritas North America, Inc.
Project/Site: 1800 1/2 Powell, Emeryville, CA

TestAmerica Job ID: 720-52791-1

Client Sample ID: CS-1-3.0-3.5
Date Collected: 10/04/13 08:05
Date Received: 10/04/13 10:52

Lab Sample ID: 720-52791-1
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4800		ug/Kg		10/08/13 10:00	10/08/13 13:30	1000
Ethylbenzene	**4900**		4800		ug/Kg		10/08/13 10:00	10/08/13 13:30	1000
Ethanol	ND		480000		ug/Kg		10/08/13 10:00	10/08/13 16:29	1000
MTBE	ND		4800		ug/Kg		10/08/13 10:00	10/08/13 13:30	1000
TAME	ND		4800		ug/Kg		10/08/13 10:00	10/08/13 13:30	1000
Ethyl tert-butyl ether	ND		4800		ug/Kg		10/08/13 10:00	10/08/13 13:30	1000
Toluene	ND		4800		ug/Kg		10/08/13 10:00	10/08/13 13:30	1000
EDB	ND		4800		ug/Kg		10/08/13 10:00	10/08/13 13:30	1000
Xylenes, Total	**26000**		9600		ug/Kg		10/08/13 10:00	10/08/13 13:30	1000
EDC	ND		4800		ug/Kg		10/08/13 10:00	10/08/13 13:30	1000
TBA	ND		9600		ug/Kg		10/08/13 10:00	10/08/13 13:30	1000
DIPE	ND		4800		ug/Kg		10/08/13 10:00	10/08/13 13:30	1000

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**20000**		200		mg/Kg		10/07/13 15:10	10/08/13 11:15	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/07/13 15:10*	*10/08/13 11:15*	*200*
p-Terphenyl	*0*	*D X*	*38 - 148*	*10/07/13 15:10*	*10/08/13 11:15*	*200*

Client: Bureau Veritas North America, Inc.
Project/Site: 1800 1/2 Powell, Emeryville, CA

TestAmerica Job ID: 720-52791-1

Client Sample ID: CS-2-2.5-3.0
Date Collected: 10/04/13 08:15
Date Received: 10/04/13 10:52

Lab Sample ID: 720-52791-2
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4200		ug/Kg		10/08/13 10:00	10/08/13 13:02	1000
Ethylbenzene	ND		4200		ug/Kg		10/08/13 10:00	10/08/13 13:02	1000
MTBE	ND		4200		ug/Kg		10/08/13 10:00	10/08/13 13:02	1000
TAME	ND		4200		ug/Kg		10/08/13 10:00	10/08/13 13:02	1000
Ethyl tert-butyl ether	ND		4200		ug/Kg		10/08/13 10:00	10/08/13 13:02	1000
Toluene	ND		4200		ug/Kg		10/08/13 10:00	10/08/13 13:02	1000
EDB	ND		4200		ug/Kg		10/08/13 10:00	10/08/13 13:02	1000
Xylenes, Total	**17000**		8500		ug/Kg		10/08/13 10:00	10/08/13 13:02	1000
EDC	ND		4200		ug/Kg		10/08/13 10:00	10/08/13 13:02	1000
TBA	**12000**		8500		ug/Kg		10/08/13 10:00	10/08/13 13:02	1000
DIPE	ND		4200		ug/Kg		10/08/13 10:00	10/08/13 13:02	1000
Etanol	ND		470		ug/Kg		10/07/13 08:00	10/08/13 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*0*	*X*	*45 - 131*	*10/07/13 08:00*	*10/08/13 00:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*125*		*60 - 140*	*10/07/13 08:00*	*10/08/13 00:47*	*1*
Toluene-d8 (Surr)	*104*		*58 - 140*	*10/07/13 08:00*	*10/08/13 00:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**7200**		99		mg/Kg		10/07/13 15:10	10/08/13 11:45	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0*		*0 - 1*	*10/07/13 15:10*	*10/08/13 11:45*	*100*
p-Terphenyl	*0*	*D X*	*38 - 148*	*10/07/13 15:10*	*10/08/13 11:45*	*100*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-145683/5
Matrix: Solid
Analysis Batch: 145683

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Etanol	ND		500		ug/Kg			10/07/13 20:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*76*		*45 - 131*		*10/07/13 20:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 140*		*10/07/13 20:26*	*1*
Toluene-d8 (Surr)	*88*		*58 - 140*		*10/07/13 20:26*	*1*

Lab Sample ID: LCS 720-145683/6
Matrix: Solid
Analysis Batch: 145683

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Etanol			1000	1010		ug/Kg		101	49 - 162		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*107*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
Toluene-d8 (Surr)	*103*		*58 - 140*

Lab Sample ID: LCSD 720-145683/7
Matrix: Solid
Analysis Batch: 145683

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Etanol			1000	1010		ug/Kg		101	49 - 162	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*110*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*102*		*58 - 140*

Lab Sample ID: MB 720-145723/4
Matrix: Solid
Analysis Batch: 145723

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		500		ug/Kg			10/08/13 09:03	100
Ethylbenzene	ND		500		ug/Kg			10/08/13 09:03	100
MTBE	ND		500		ug/Kg			10/08/13 09:03	100
Toluene	ND		500		ug/Kg			10/08/13 09:03	100
EDB	ND		500		ug/Kg			10/08/13 09:03	100
Xylenes, Total	ND		1000		ug/Kg			10/08/13 09:03	100
EDC	ND		500		ug/Kg			10/08/13 09:03	100
TBA	ND		1000		ug/Kg			10/08/13 09:03	100
DIPE	ND		500		ug/Kg			10/08/13 09:03	100
TAME	ND		500		ug/Kg			10/08/13 09:03	100
Ethyl tert-butyl ether	ND		500		ug/Kg			10/08/13 09:03	100

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-145723/5
Matrix: Solid
Analysis Batch: 145723

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5000	5060		ug/Kg		101	76 - 122
Ethylbenzene	5000	5000		ug/Kg		100	76 - 137
MTBE	5000	5210		ug/Kg		104	71 - 146
m-Xylene & p-Xylene	10000	10100		ug/Kg		101	71 - 142
Toluene	5000	5010		ug/Kg		100	77 - 120
EDB	5000	5040		ug/Kg		101	80 - 138
EDC	5000	5690		ug/Kg		114	67 - 126
TBA	100000	103000		ug/Kg		103	70 - 130
DIPE	5000	5040		ug/Kg		101	70 - 130
TAME	5000	5270		ug/Kg		105	70 - 130
Ethyl tert-butyl ether	5000	5230		ug/Kg		105	70 - 130

Lab Sample ID: LCSD 720-145723/6
Matrix: Solid
Analysis Batch: 145723

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5000	4970		ug/Kg		99	76 - 122	2	20
Ethylbenzene	5000	5040		ug/Kg		101	76 - 137	1	20
MTBE	5000	5470		ug/Kg		109	71 - 146	5	20
m-Xylene & p-Xylene	10000	10100		ug/Kg		101	71 - 142	0	20
Toluene	5000	5070		ug/Kg		101	77 - 120	1	20
EDB	5000	5320		ug/Kg		106	80 - 138	6	20
EDC	5000	5580		ug/Kg		112	67 - 126	2	20
TBA	100000	99700		ug/Kg		100	70 - 130	3	20
DIPE	5000	5110		ug/Kg		102	70 - 130	1	20
TAME	5000	5390		ug/Kg		108	70 - 130	2	20
Ethyl tert-butyl ether	5000	5410		ug/Kg		108	70 - 130	3	20

Lab Sample ID: MB 720-145725/22
Matrix: Solid
Analysis Batch: 145725

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		50000		ug/Kg			10/08/13 17:52	100

Lab Sample ID: LCS 720-145725/23
Matrix: Solid
Analysis Batch: 145725

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethanol	100000	113000		ug/Kg		113	70 - 130

Lab Sample ID: LCSD 720-145725/25
Matrix: Solid
Analysis Batch: 145725

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethanol	100000	122000		ug/Kg		122	70 - 130	8	20

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

Lab Sample ID: MB 720-145669/1-A
Matrix: Solid
Analysis Batch: 145667

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 145669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.98		mg/Kg		10/07/13 15:10	10/08/13 03:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Capric Acid (Surr)	*0.0005*		*0 - 1*	*10/07/13 15:10*	*10/08/13 03:10*	*1*
p-Terphenyl	*94*		*38 - 148*	*10/07/13 15:10*	*10/08/13 03:10*	*1*

Lab Sample ID: LCS 720-145669/2-A
Matrix: Solid
Analysis Batch: 145667

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 145669

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]			82.4	76.8		mg/Kg		93	36 - 112		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*94*		*38 - 148*

Lab Sample ID: LCSD 720-145669/3-A
Matrix: Solid
Analysis Batch: 145667

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 145669

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.8	73.7		mg/Kg		89	36 - 112	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*94*		*38 - 148*

Lab Sample ID: 720-52791-1 MS
Matrix: Solid
Analysis Batch: 145744

Client Sample ID: CS-1-3.0-3.5
Prep Type: Silica Gel Cleanup
Prep Batch: 145669

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	20000		82.7	19700	4	mg/Kg		-332	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*0*	*D X*	*38 - 148*

Lab Sample ID: 720-52791-1 MSD
Matrix: Solid
Analysis Batch: 145744

Client Sample ID: CS-1-3.0-3.5
Prep Type: Silica Gel Cleanup
Prep Batch: 145669

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	20000		82.7	20200	4	mg/Kg		249	50 - 150	2	30

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

Lab Sample ID: 720-52791-1 MSD
Matrix: Solid
Analysis Batch: 145744

Client Sample ID: CS-1-3.0-3.5
Prep Type: Silica Gel Cleanup
Prep Batch: 145669

Surrogate	MSD %Recovery	MSD Qualifier	Limits
p-Terphenyl	*0*	*D X*	*38 - 148*

GC/MS VOA

Analysis Batch: 145683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52791-2	CS-2-2.5-3.0	Total/NA	Solid	8260B/CA_LUFT MS	145769
LCS 720-145683/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-145683/7	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-145683/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 145723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52791-1	CS-1-3.0-3.5	Total/NA	Solid	8260B/CA_LUFT MS	145765
720-52791-2	CS-2-2.5-3.0	Total/NA	Solid	8260B/CA_LUFT MS	145765
LCS 720-145723/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-145723/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-145723/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 145725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52791-1	CS-1-3.0-3.5	Total/NA	Solid	8260B/CA_LUFT MS	145765
LCS 720-145725/23	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-145725/25	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-145725/22	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 145765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52791-1	CS-1-3.0-3.5	Total/NA	Solid	5030B	
720-52791-2	CS-2-2.5-3.0	Total/NA	Solid	5030B	

Prep Batch: 145769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52791-2	CS-2-2.5-3.0	Total/NA	Solid	5030B	

GC Semi VOA

Analysis Batch: 145667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-145669/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	145669
LCSD 720-145669/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	8015B	145669
MB 720-145669/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	145669

Prep Batch: 145669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52791-1	CS-1-3.0-3.5	Silica Gel Cleanup	Solid	3546	
720-52791-1 MS	CS-1-3.0-3.5	Silica Gel Cleanup	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 145669 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52791-1 MSD	CS-1-3.0-3.5	Silica Gel Cleanup	Solid	3546	
720-52791-2	CS-2-2.5-3.0	Silica Gel Cleanup	Solid	3546	
LCS 720-145669/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
LCSD 720-145669/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3546	
MB 720-145669/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 145744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-52791-1	CS-1-3.0-3.5	Silica Gel Cleanup	Solid	8015B	145669
720-52791-1 MS	CS-1-3.0-3.5	Silica Gel Cleanup	Solid	8015B	145669
720-52791-1 MSD	CS-1-3.0-3.5	Silica Gel Cleanup	Solid	8015B	145669
720-52791-2	CS-2-2.5-3.0	Silica Gel Cleanup	Solid	8015B	145669

Lab Chronicle

Client: Bureau Veritas North America, Inc.
Project/Site: 1800 1/2 Powell, Emeryville, CA

TestAmerica Job ID: 720-52791-1

Client Sample ID: CS-1-3.0-3.5

Lab Sample ID: 720-52791-1

Date Collected: 10/04/13 08:05

Matrix: Solid

Date Received: 10/04/13 10:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145765	10/08/13 10:00	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1000	145723	10/08/13 13:30	ASC	TAL PLS
Total/NA	Prep	5030B			145765	10/08/13 10:00	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1000	145725	10/08/13 16:29	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			145669	10/07/13 15:10	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		200	145744	10/08/13 11:15	JL	TAL PLS

Client Sample ID: CS-2-2.5-3.0

Lab Sample ID: 720-52791-2

Date Collected: 10/04/13 08:15

Matrix: Solid

Date Received: 10/04/13 10:52

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			145769	10/07/13 08:00	ASC	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	145683	10/08/13 00:47	ASC	TAL PLS
Total/NA	Prep	5030B			145765	10/08/13 10:00	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1000	145723	10/08/13 13:02	ASC	TAL PLS
Silica Gel Cleanup	Prep	3546			145669	10/07/13 15:10	DFR	TAL PLS
Silica Gel Cleanup	Analysis	8015B		100	145744	10/08/13 11:45	JL	TAL PLS

Laboratory References:

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

Certification Summary

Client: Bureau Veritas North America, Inc.
Project/Site: 1800 1/2 Powell, Emeryville, CA

TestAmerica Job ID: 720-52791-1

Laboratory: TestAmerica Pleasanton

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

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

Method Summary

Client: Bureau Veritas North America, Inc.
Project/Site: 1800 1/2 Powell, Emeryville, CA

TestAmerica Job ID: 720-52791-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Bureau Veritas North America, Inc.
Project/Site: 1800 1/2 Powell, Emeryville, CA

TestAmerica Job ID: 720-52791-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-52791-1	CS-1-3.0-3.5	Solid	10/04/13 08:05	10/04/13 10:52
720-52791-2	CS-2-2.5-3.0	Solid	10/04/13 08:15	10/04/13 10:52

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

720-52791
320-44130

TESTAMERICA Pleasanton Chain of Custody
1220 Quarry Lane • Pleasanton CA 94566-4756
Phone (925) 484-[illegible] 925) 600-3002

Reference #: 149080

Date 10-4-13 Page 1 of 1

10/9/2013

Report To

Attn: John Werfal + Jeremy Wilson
Company: Bureau Veritas NA, Inc
Address 2430 Camino Ramon
Email: john.werfal@us.bureauveritas.com
Bill To Jeremy.wilson@ / Sampled By: J. Wilson
Attn: Phone: 925-498-6518

Analysis Request

Sample ID	Date	Time	Matrix	Preserv	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B	HVOCs by ☐ EPA 8260B	EPA 8260B ☐ Gas ☒ BTEX ☐ 5 Oxygenates ☐ EDB ☐ Ethanol + EDC	TEPH EPA 8015B ☒ Silica Gel ☒ Diesel ☐ Motor Oil ☐ Other ___	SemiVolatile Organics GC/MS ☐ EPA 8270C	PNA/PAH's by ☐ 8270C ☐ 8270C SIM	Oil and Grease (EPA 1664/9071) ☐ Petroleum ☐ Total	Pesticides ☐ EPA 8081 PCBs ☐ EPA 8082	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ 6010B ☐200.7 ☐ Lead ☐ LUFT ☐RCRA ☐ Other: ___	Metals: ☐ 6020 ☐ 200.8 (ICP-MS) ___	☐ W.E.T (STLC) ☐ W.E.T (DI) ☐ TCLP	Hex Chrom by ☐ EPA 7196 ☐ or EPA 7199	pH ☐ 9040 ☐ SM4500	☐ Spec. Cond ☐ Alkalinity ☐ TSS ☐ SS ☐ TDS	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	☐ Perchlorate by EPA 314.0	COD ☐ EPA 410.4 ☐ SM5220D ☐ Turbidity			Number of Containers
CS-1-3.0-3.5	10-4-13	805	S	—			X	X																	1
CS-2-2.5-3.0	10-4-13	815	S	—			X	X																	1

720-52791 Chain of Custody

RUSH

Page 18 of 19

Project Info

Project Name/ #: 1800 Y2 Powell Emeryville, CA
PO#
Credit Card Y/N. If yes, please call with payment information ASAP

Sample Receipt

of Containers: 2
Head Space
Temp: 11.4°C

TAT: 10 Day | 5 Day | 4 Day | 3 Day | 2 Day | 1 Day | Other: 48hr Rush

Report ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ EDF
Special Instructions / Comments. ☐ Global ID ___

See Terms and Conditions on reverse

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 1052	Signature: Time:	Signature: Time:
Printed Name: Jeremy Wilson Date: 10-4-13	Printed Name: Date:	Printed Name: Date:
Company: Bureau Veritas	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1052	Signature: Time:	Signature: Time:
Printed Name: Mulley Date: 10-4-13	Printed Name: Date:	Printed Name: Date:
Company: [signature]	Company:	Company:

Rev. 10/2012

Login Sample Receipt Checklist

Client: Bureau Veritas North America, Inc.

Job Number: 720-52791-1

Login Number: 52791

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

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

APPENDIX F
2014 UST REMOVAL REPORT

Sparger Technology, Inc.
Environmental Division

Environmental Division
Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

August 11, 2014

Chris Tougeron
Senior Hazardous Materials Inspector
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Subject: **Underground Storage Tank Removal Report**
Powell Street Shell
1800 Powell Street
Emeryville, California

Dear Mr. Tougeron:

This letter report presents the results of underground storage tank (UST) removal activities performed at the Powell Street Shell #102 located at 1800 Powell Street, Emeryville, California (site). The work was conducted during May and June 2014 by Sparger Technology, Inc. (Sparger) and is submitted on behalf Sunny Goyal of AU Energy (property owner). The site is a Shell branded service station that is currently being renovated. A task of the service station renovation project was the removal of the existing underground storage tanks. Four 10,000-gallon single wall fiberglass USTs were removed (three gasoline and one diesel). These were replaced with two new double wall fiberglass USTs. A 20,000-gallon regular unleaded gasoline and a 15,000-gallon tank split 7,000-gallon diesel and 8,000-gallon premium gasoline. Sparger collected regulatory compliance soil samples from the UST excavation bottom and below the dispensers and product lines. Wendt Construction, of Lodi, California provided engineering services for the UST removal activities. Musco Excavators Inc. provided UST Contractor services (License # 634117). Summarized below are a description of the UST removal, soil sampling activities beneath the USTs, dispensers and piping, and the results of laboratory analysis of soil samples.

Soil and historical industrial waste debris previously deposited beneath the site and surrounding area was found to contain Asbestos Containing Materials (ACM). Soil excavation, transportation, and management other than UST Removal is reported under separate cover by Bureau Veritas North America, Inc.

Permits

Prior to UST removal activities, Musco Excavators, Inc. obtained Underground Storage Tank System Closure permits from Alameda County, Department of Environmental Health (ACDEH). The ACDEH issued permit number SR0024936 on April 29, 2014. A copy of the permit is included as Attachment A.

UST Removal Activities

During May 2014, UST system closure activities included the removal of four 10,000-gallon USTs. Three USTs previously contained gasoline and one contained diesel. The tanks content was removed on May 19, 2014. The product lines from the UDCs to the tanks were flushed on May 19, 2014. The USTs were triple rinsed by Adams Services, Inc. personnel on May 19, 2014 using a fresh water/detergent mixture and a hot water pressure washer. Following rinsing, visual inspection of the tanks did not indicate any residual sludge or liquid on the visible portions of the interior of the tanks. Approximately 500-gallons of rinsate were removed from the tanks using a vacuum truck. The UST rinsate was then transported as non-RCRA hazardous waste liquid for treatment and recycling by Adams Services, Inc. under manifest number 010403863 JJK, to the Demenno/Kerdoon facility in Compton, California. A copy of the waste manifest for the rinsate is included as Attachment B. Excavation activities began with the removal of the concrete cap and fill material (pea gravel) around the USTs. The excavated fill was placed on and covered with polyethylene sheeting adjacent to the excavation. Musco Excavators, Inc. of Santa Rosa, California (license contractor #634117) performed the UST excavation activities.

On May 20, 2014, in preparation for the removal of the USTs, Musco Excavators placed approximately 250 pounds of dry ice inside each of the USTs. Over the next few hours, the lower explosion limit (LEL) and percent oxygen were measured within each of the tanks using a Gastech GT402 meter. The final readings for LEL and percent oxygen were recorded at 0% LEL and 20.9% oxygen, respectively. The readings were measured by Bryan Musco, a licensed hazardous substance removal contractor, under observation of the CUPA. The hazardous waste tank closure certification form (UPCF HWF 1249) is presented as Attachment C. Under guidance of the CUPA, the USTs were deemed inert and non-hazardous and were crushed on site. On May 21, 2014, the piping and four fiberglass tanks were transported as crushed fiberglass tanks to Potrero Hills Landfill in Suisun, California. The non-hazardous waste manifest for the crushed fiberglass tanks are presented as Attachment D. Subsequently to tank removal, under CUPA guidance, regulatory compliance soil samples were collected from the excavation bottom below the USTs, dispensers (UDCs), and associated piping.

Regulatory Compliance Soil Sampling Activities

On May 20, 2014, Sparger field personnel collected soil samples from beneath the removed tank system. Soil samples were collected from native soil approximately 2 feet below the ends of each tank at approximately 14-feet below ground surface (bgs). Soil samples were also collected from beneath the dispensers and also at the joints and mid piping lines. The soil samples collected from below each end of the tanks were designated TANK-1E, TANK-1W, TANK-2E, TANK-2W, TANK-3E, TANK-3W, and TANK-4E TANK-4W. The samples from beneath the product dispensers were designated UDC-1, UDC-2, UDC-3, UDC-4, UDC-5, UDC-6-7, UDC-8-9, UDC-10-11, and UDC-12. The samples from beneath the piping were designated PT-1 through PT-3. Piping and UDC soil samples were collected from approximately 4 feet bgs. A groundwater grab sample was also collected from the standing water in the excavation (TANK PIT WATER). The samples were collected under the guidance of the CUPA and the locations are shown on Figure 1.

Soil Sample Analysis and Results

The samples were transported under chain of custody protocol and submitted to Sparger Technology, Inc. of Rancho Cordova, California, a State-certified environmental laboratory, for analysis. The analytical protocol is presented below:

- TPH-G by 8015M
- TPH-D by 8015M
- 5 Oxygenates and BTEX by 8260B
- 1,2 DCA, EDB, Naphalene, Ethanol by 8260B
- Organic Lead by LUFT

The results of laboratory analysis are summarized below and presented in the attached data Table 1.

Four of the eight soil samples collected from the native soil beneath the USTs during removal on May 20, 2014 were generally non-detect (ND) for TPH-G and associated volatiles. But, the diesel tank (TANK-4, E and W) had results of 3,800 and 1,700 mg/kg TPH-D; and TANK-1 and TANK-2 had detections on the east side. TANK-1E and TANK-2E had detections of 180 and 1,700 ug/kg of benzene. Organic lead results were ND.

- TPH-G was generally ND at all UST samples with some detection at UDCs.
- TPH-D was 3,800 and 1,700 mg/kg at TANK-4 at E and W, respectively
- BTEX had detections at TANK-1E, TANK-2E, UDC 6/7, UDC 8/9, UDC 10/11, and PT-3. Benzene concentrations are reported up to 4,200 at PT-3.
- TAME, DIPE, ETBE, TBA, 1,2 DCA, 1,2 EDB, and ethanol were generally ND.
- Naphthalene results ranges from ND to 25,000 ug/kg at PT-3.
- Organic lead results were ND.

The results of analyses on the grab groundwater sample from the standing water within the UST excavation had detections of TPH-G, TPH-D, and BTEX. Sample TANK PIT WATER had results of 12,000 ug/L and 29,000 ug/L of TPH-G and TPH_D, respectively. Benzene was reported at 290 ug/L.

To set the new USTs, approximately 10,000-gallons of groundwater was removed from the new tank pit. The water was removed and transported by Safety Kleen of Newark, California. Copies of transportation manifests are presented in Attachment E.

Copies of the Sparger laboratory reports are included in Attachment F.

UST Removal and Sampling Summary

The following is a summary of UST removal activities:

- During early May, 2014, the four 10,000-gallon USTs were emptied of contents.
- On May 19, 2014 the UDCs and piping were rinsed and flushed into the USTs.
- On May 19, 2014 the tanks were triple rinsed and the rinsate was transported off-site for disposal.
- On May 20, 2014, the four 10-000-gallon USTs were removed, deemed non-hazardous waste, and subsequently crushed on site for landfill disposal.
- On May 20, 2014, samples were collected from native soil below the ends of each of the tanks. Soil samples were also collected from beneath the dispensers and associated piping lines, and from standing water within the tank pit.
- Four of the eight soil samples collected from the native soil beneath the USTs during removal on May 20, 2014 were generally non-detect (ND) for TPH-G and associated volatiles.
- The diesel tank (TANK-4, E and W) had results of 3,800 and 1,700 mg/kg TPH-D; and TANK-1 and TANK-2 had detections on the east side. TANK-1E and TANK-2E had detections of 180 and 1,700 ug/kg of benzene. Organic lead results were ND.
- TAME, DIPE, ETBE, TBA, 1,2 DCA, 1,2 EDB, and ethanol were generally ND.
- Sample TANK PIT WATER had results of 12,000 ug/L and 29,000 ug/L of TPH-G and TPH-D, respectively. Benzene was reported at 290 ug/L. Subsequently, approximately 10,000-gallons of impacted groundwater was pumped from the tank pit on May 19, 2014 to accommodate installation of the new USTs.
- Additional soil containing ACM was removed from the site during station reconfiguration as California hazardous waste and transported to Forward Landfill, Inc. in Manteca, California. The management and disposal of ACM encountered during the UST removal will be presented in a separate report.

Closing

Should you have any questions, please contact me at (916) 778-8719 or Ray James at (916) 369-7688.

Respectfully,

PROFESSIONAL GEOLOGIST
MICHAEL D. MILLER
No. 6008
STATE OF CALIFORNIA

Michael D. Miller
Professional Geologist 6008

Ray James
President - Sparger Technology, Inc.

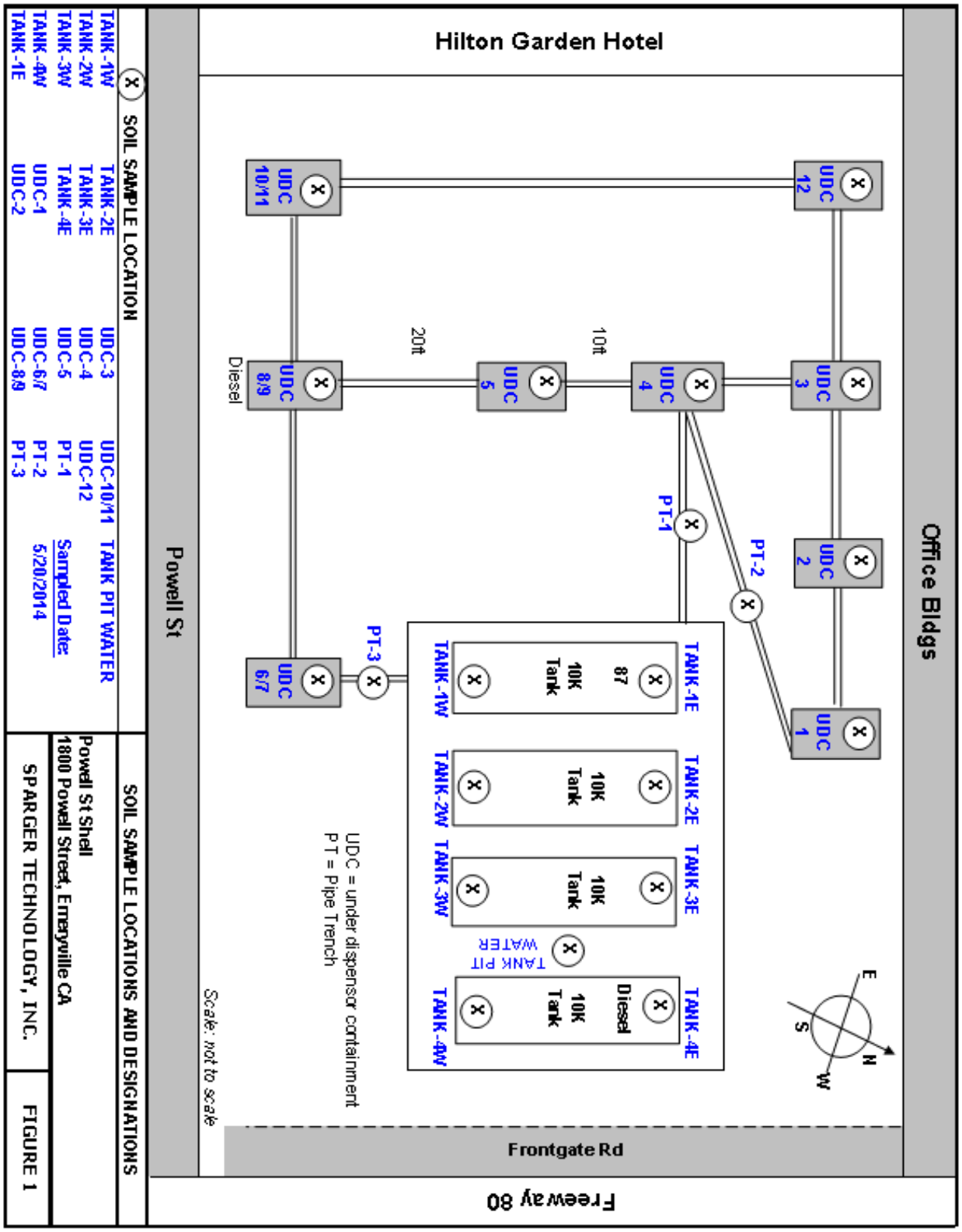
Cc: Sunny Goyal of AU Energy, LLC

Figure 1	Site map with tank pit, UDC, and piping soil sample locations
Table 1	Tabulated laboratory results
Attachment A	Copy of the UST System Closure permits from Alameda County
Attachment B	Copy of the UST cleaning rinsate waste manifest
Attachment C	Copy of O2 and LEL tank closure certification
Attachment D	UST non-hazardous waste manifest
Attachment E	Groundwater Removal Manifests
Attachment F	Laboratory reports and chain of custody

FIGURE

Sparger Technology, Inc.
Environmental Division

Environmental Division
Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division



3738 Bradview Drive • Sacramento, California - 95827 • (916) 369-7688 • Fax (916) 369-7689

TABLES

LABORATORY RESULTS - TANK CLOSURE SOIL SAMPLES - MAY 2014
EMERYVILLE SHELL - 1800 POWELL STREET, EMERYVILLE, CALIFORNIA

May 20, 2014 CUPA UST soil samples at 12.0 ft bgs and UDC samples at 4.0 ft bgs

Gas and Diesel (mg/Kg) Volatiles (ug/Kg)														
	TPH-G	TPH-D	B	T	E	X	MTBE	TAME	DIPE	ETBE	TBA	1-2, DCA	1-2, EDB	NAPHT
TANK-4E	ND	**3800**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TANK-1E	**1.4**	-	**180**	**340**	**370**	**2000**	**330**	ND	ND	ND	ND	ND	ND	**730**
TANK-2E	**1.1**	-	**1,700**	**480**	**440**	**1,600**	**1,700**	ND	ND	ND	ND	ND	ND	**430**
TANK-3E	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TANK-4W	ND	**1,700**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TANK-3W	ND	-	ND	ND	ND	**5**	ND	ND	ND	ND	ND	ND	ND	ND
TANK-2W	**0.6**	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TANK-1W	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
UDC-5	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PT-1	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
UDC-4	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
UDC-1	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
UDC-2	ND	**600**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

LABORATORY RESULTS - TANK CLOSURE SOIL SAMPLES - MAY 2014
EMERYVILLE SHELL - 1800 POWELL STREET, EMERYVILLE, CALIFORNIA

May 20, 2014 CUPA UST soil samples at 12.0 ft bgs and UDC samples at 4.0 ft bgs - Cont'

Gas and Diesel (mg/Kg) Volatiles (ug/Kg)														
	TPH-G	TPH-D	B	T	E	X	MTBE	TAME	DIPE	ETBE	TBA	1-2, DCA	1-2, EDB	NAPTH
PT-2	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
UDC-3	ND	-	ND	ND	ND	**1.8**	ND	ND	ND	ND	ND	ND	ND	ND
UDC-12	ND	-	ND	ND	ND	**2.3**	ND	ND	ND	ND	ND	ND	ND	ND
UDC-10-11	**1100**	-	**2100**	**8400**	**13000**	**72000**	ND	ND	ND	ND	ND	ND	ND	**6200**
UDC-8-9	**360**	**1,000**	ND	**120**	**370**	**5000**	ND	ND	ND	ND	ND	ND	ND	**2300**
UDC-6-7	**980**	-	**920**	**210**	**1100**	**1800**	ND	ND	ND	ND	ND	ND	ND	**1500**
PT-3	**2700**	**1700**	**4200**	**180**	**19000**	**2000**	ND	ND	ND	ND	ND	ND	ND	**25000**
TP WATER *	**12000**	**29000**	**290**	**2100**	**360**	**2600**	**20**	ND	ND	ND	ND	ND	ND	**40**

* water units = ug/L

Sparger Technology, Inc.
Environmental Division

Environmental Division
Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

ATTACHMENT A

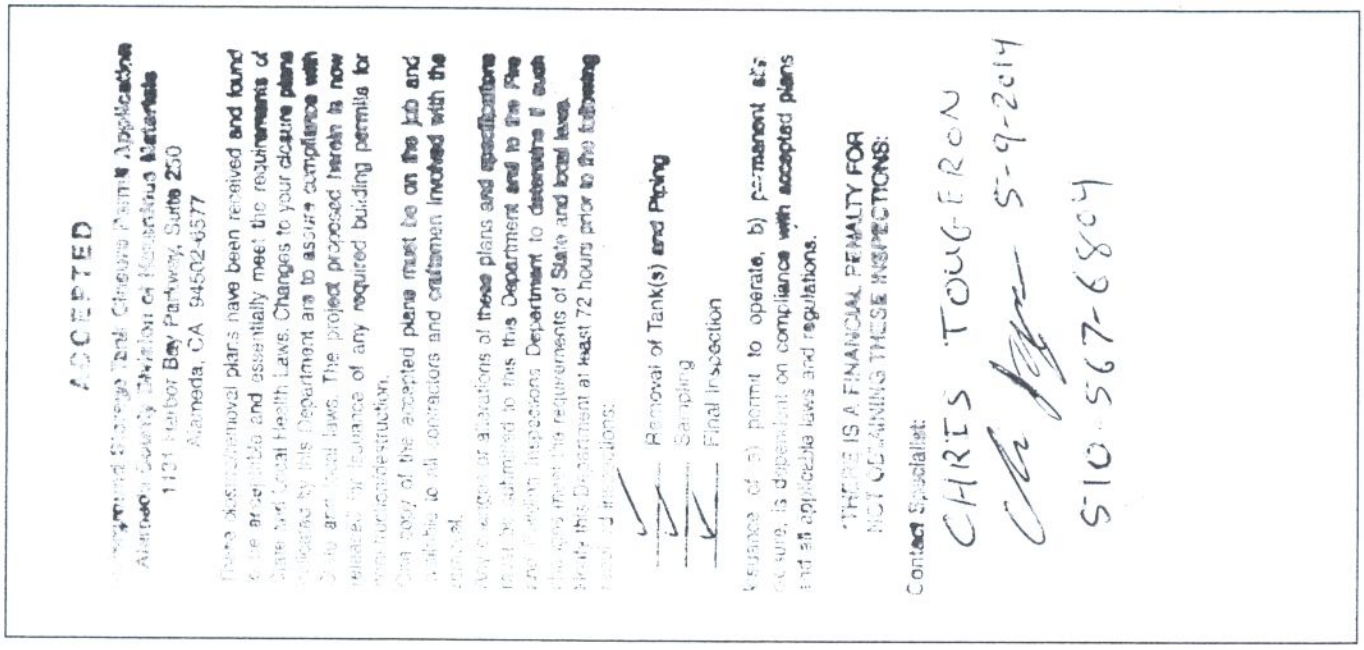
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Alameda County

APR 29 2014

Environmental Health

ALAMEDA COUNTY
DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502-6577
PHONE (510) 567-6700



UNDERGROUND STORAGE TANK CLOSURE PLAN

*** * * Complete closure plan according to instructions * * ***

1. Name of Business SHELL STATION

   Business Owner or Contact Person **(PRINT)** AU ENERGY, LLC/JOHN ELLIS

2. Site Address 1800 ½ POWELL STREET

   City, State EMERYVILLE, CA Zip 94608 Phone 510-657-9150

3. Mailing Address 41805 ALBRAE STREET

   City, State FREMONT, CA Zip 94538 Phone 510-657-9150

4. Property Owner AU ENERGY, LLC

   Business Name (if applicable) C/O NICK GOYAL

   Address 41805 ALBRAE STREET

   City, State FREMONT Zip 94538 Phone 510-657-9150

5. Generator name under which tank will be manifested

   AU ENERGY – POWELL SHELL

   EPA I.D. No. under which tank(s) will be manifested CAL000350923

6. Contractor MUSCO EXCAVATORS, INC.

   Address 2526 GREENVALE COURT

   City, State SANTA ROSA, CA Zip 95401 Phone 707-579-0250

   License Type A, B, C10, C21, HAZ ID# 634117

7. Consultant (if applicable) SPARGER TECHNOLOGY, INC.

   Address 3738 BRADVIEW DRIVE

   City, State SACRAMENTO, CA Zip 95827 Phone 916-369-7688

8. Main Contact Person for Investigation (if applicable)

   Name _____ Title _____

   Company SPARGER TECHNOLOGY, INC.

   Phone 916-369-7688

9. Number of underground tanks being closed with this plan 4

   Length of piping being removed under this plan ~1,500' OF DW PIPE

   Total number underground tanks at this facility (**confirmed with owner or operator) 4

10. State Registered Hazardous Waste Transporters/Facilities (See Instructions).

    a) Product/Residual Sludge/Rinsate Transporter

       Name ADAMS SERVICES EPA I.D. No. CAR000189431

       Hauler License No. 3216 License Exp. Date 12/14

       Address 406 E. ALONDRA BLVD.

       City, State GARDENA, CA Zip 90248

    b) Product/Residual Sludge/Rinsate Disposal Site

       Name DEMENNO/KERDOON EPA I.D. No. CAT080013352

       Address 2000 NORTH ALAMEDA STREET

       City, State COMPTON, CA Zip 90222

c) Tank and Piping Transporter

Name MUSCO EXCAVATORS, INC. EPA I.D. No. N/A

Hauler License No. HAULED AS NON-HAZ License Exp. Date _____

d) Tank and Piping Disposal Site

Name POTRERO HILLS LANDFILL EPA I.D. No. DISPOSE AS C&D

Address 3675 POTRERO HILLS LANE

City, State SUISUN CITY, CA Zip 94585

11. Sample Collector

Name _____

Company SPARGER TECHNOLOGY, INC.

Address 3738 BRADVIEW DRIVE

City, State SACRAMENTO, CA Zip 95827 Phone 916-369-7688

12. Laboratory

Name _____

Company SPARGER TECHNOLOGY, INC.

Address 3738 BRADVIEW DRIVE

City, State SACRAMENTO, CA Zip 95827 Phone 916-369-7688

State Certification No. 1614

13. Have tank(s) or piping leaked in the past? Yes [X] No [ ] Unknown [ ]

If yes, describe: *During the installation of new dispensers in September 1992, a leak from damaged fiberglass piping connected to an underground storage tank at the site was reported. The release was reported as approximately 3,200 gallons of super unleaded gasoline. In response to the release, five tank backfill wells (S-1 through S-4, and S-11) and six groundwater monitoring wells (S-5 through S-10) were installed at the site sometime prior to August 1983. Boring logs and well construction details are unavailable for these wells. An Unauthorized Release Report (URR) was submitted by Shell on September 10, 1982. Free product removal was reportedly conducted in 1989 but no documentation of the removal is available. Site investigation activities were conducted in 1996 and 2006. A fuel system upgrade was conducted in 2004. Annual groundwater monitoring is currently ongoing to confirm that the concentrations of dissolved phase petroleum hydrocarbons are decreasing from elevated levels. The site was affected by a recent release of diesel from product piping on October 1, 2013. Cleanup and investigation of the recent release will be needed.*

14. Describe method(s) to be used for rendering tank(s) inert: *The product lines will be flushed with nitrogen and rinsed back into the tanks with all liquid being removed. Pump out and triple*

rinse all tanks using a vacuum truck and high pressure hydro-blasting equipment and emulsifying detergent until 0% LEL is achieved and sludge has been removed from the tanks interior. Tanks atmosphere will be verified using a GASTECH GT402 meter that is properly calibrated. All tank cleaning will be conducted through the tank's 4" bung holes and man holes. Dry ice will not be added to the tanks due to the LEL being zero.

Before tank(s) are pumped out and inerted, all associated piping must be flushed back into the tank(s). All accessible piping must then be removed. Inaccessible piping must be permanently plugged using grout.

The Bay Area Air Quality Management District, (415) 771-6000, along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of a combustible gas indicator to verity tank inertness. **It is the contractor's responsibility to have a functional combustible gas indicator on-site to verity that the tank(s) is inerted.**

15. Tank History and Sampling Information ***(See Instructions)***

Tank		Material to be sampled (tank contents, soil, groundwater)	Location and Depth of Sample(s)
Capacity (gallons)	Use History include date last used (estimated)		
10,000 X 4	ALL WERE INSTALLED IN 1/1980 AND ARE STILL IN USE (as of 4/24/14)	SOIL AND GROUNDWATER	BENEATH THE END OF EACH TANK AT A MAXIMUM DEPTH OF 2' BELOW NATIVE SOIL OR SIDEWALL AT THE HIGH WATER MARK

One soil sample must be collected for every 20 linear feet of underground piping that is removed. A groundwater sample must be collected if any groundwater is present in the excavation.

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (estimated) ~200 YARDS OF PEA GRAVEL	Sampling Plan AS DIRECTED BY THE OVERSEEING AGENCY.

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

Will the excavated soil be returned to the excavation immediately after tank removal?

[ ] yes [ ] no [X] unknown

If yes, explain reasoning _____

_____

If unknown at this point in time, please be aware that **excavated soil may not be returned to the excavation without <u>prior</u> approval from this office. This means that the contractor, consultant, or responsible party must communicate with the Specialist IN ADVANCE of backfilling activities.**

16. Chemical methods and associated detection limits to be used for analyzing sample(s):

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits shall be followed.

See Table 2, Recommended Minimum Verification Analyses for Underground Tank Leaks.

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
TABLE 2 RECOMMENDATIONS WILL BE UTILIZED FOR ANALYSES			

17. Submit Site Health and Safety Plan (See Instructions)

18. Submit Worker's Compensation Certificate copy

    Name of Insurer BENCHMARK INSURANCE COMPANY

19. Submit Plot Plan ***(See Instructions)***

20. Enclose Deposit (See Instructions)

21. **Report all leaks or contamination to this office within 5 days of discovery**. The written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report (URL) form.

22. **Submit a closure report to this office within 60 days of the tank removal. The closure report must contain all information listed in item 22 of the instructions.**

23. Submit State (Underground Storage Tank Permit Application) Forms A and B (one-B form for each UST to be removed) (mark box 8 for "tank removed" in the upper right hand corner).

I declare that to the best of my knowledge and belief that the statements and information provided above are correct and true.

I understand that information, in addition to that provided above, may be needed in order to obtain approval from the Environmental Protection Division and that no work is to begin on this project until this plan has been approved.

I understand that any changes in design, materials, or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

CONTRACTOR INFORMATION

Name of Business MUSCO EXCAVATORS, INC.

Name of Individual BRYAN MUSCO

Signature Bryan H. Musco Date 4/28/14

[X] PROPERTY OWNER OR [ ] MOST RECENT TANK OPERATOR (Check one)

RMAGR 7.1.02.07

Name of Business AU ENERGY, LLC – POWELL SHELL

Name of Individual Nick Goyal

Signature Date 4/28/2014

UNIFIED PROGRAM CONSOLIDATED FORM
UNDERGROUND STORAGE TANK
OPERATING PERMIT APPLICATION – TANK INFORMATION (One form per UST)

TYPE OF ACTION (Check one item only. For an UST permanent closure or removal, complete only this section and Sections I, II, III, IV, and IX below) 430
☐ 1. NEW PERMIT ☐ 3. RENEWAL PERMIT ☐ 5. CHANGE OF INFORMATION
☐ 6. TEMPORARY UST CLOSURE ☐ 7. UST PERMANENT CLOSURE ON SITE ☒ 8. UST REMOVAL

DATE UST PERMANENTLY CLOSED: 430a | DATE EXISTING UST DISCOVERED: 430b

I. FACILITY INFORMATION

FACILITY ID # (*Agency Use Only*) 1

BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As) 3
POWELL SHELL #102 (CUPA)

BUSINESS SITE ADDRESS 103: 1800 1/2 POWELL STREET
CITY 104: EMERYVILLE

II. TANK DESCRIPTION

TANK ID # 1 432
TANK MANUFACTURER 433: OWENS CORNING
TANK CONFIGURATION: THIS TANK IS 434
☒ 1. A STAND-ALONE TANK
☐ 2. ONE IN A COMPARTMENTED UNIT.
Complete one page for each compartment in the unit.
DATE UST SYSTEM INSTALLED 435: 1/1/1980
TANK CAPACITY IN GALLONS 436: 10,000
NUMBER OF COMPARTMENTS IN THE UNIT 437: 1

III. TANK USE AND CONTENTS

TANK USE 439
☒ 1a. MOTOR VEHICLE FUELING ☐ 1b. MARINA FUELING ☐ 1c. AVIATION FUELING
☐ 3. CHEMICAL PRODUCT STORAGE ☐ 4. HAZARDOUS WASTE (Includes Used Oil) ☐ 5. EMERGENCY GENERATOR FUEL [HSC §25281.5(c)]
☐ 6. OTHER GENERATOR FUEL ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 439a

CONTENTS 440
PETROLEUM: ☒ 1a. REGULAR UNLEADED ☐ 1c. MIDGRADE UNLEADED ☐ 1b. PREMIUM UNLEADED
☐ 3. DIESEL ☐ 5. JET FUEL ☐ 6. AVIATION GAS
☐ 8. PETROLEUM BLEND FUEL ☐ 9. OTHER PETROLEUM (Specify): 440a
NON-PETROLEUM: ☐ 7. USED OIL ☐ 10. ETHANOL
☐ 11. OTHER NON-PETROLEUM (Specify): 440b

IV. TANK CONSTRUCTION

TYPE OF TANK ☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 95. UNKNOWN 443
PRIMARY CONTAINMENT ☐ 1. STEEL ☒ 3. FIBERGLASS ☐ 6. INTERNAL BLADDER 444
☐ 7. STEEL + INTERNAL LINING ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 444a
SECONDARY CONTAINMENT ☐ 1. STEEL ☐ 3. FIBERGLASS ☐ 6. EXTERIOR MEMBRANE LINER ☐ 7. JACKETED 445
☒ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 445a
OVERFILL PREVENTION ☒ 1. AUDIBLE & VISUAL ALARMS ☐ 2. BALL FLOAT ☒ 3. FILL TUBE SHUT-OFF VALVE 452.
☐ 4. TANK MEETS REQUIREMENTS FOR EXEMPTION FROM OVERFILL PREVENTION EQUIPMENT

V. PRODUCT / WASTE PIPING CONSTRUCTION

PIPING CONSTRUCTION ☒ 1. SINGLE-WALLED ☐ 2. DOUBLE-WALLED ☐ 99. OTHER 460
SYSTEM TYPE ☒ 1. PRESSURE ☐ 2. GRAVITY ☐ 3. CONVENTIONAL SUCTION ☐ 4. SAFE SUCTION [23 CCR §2636(a)(3)] 458
PRIMARY CONTAINMENT ☐ 1. STEEL ☒ 4. FIBERGLASS ☐ 8. FLEXIBLE ☐ 10. RIGID PLASTIC 464
☐ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER(Specify): 464a
SECONDARY CONTAINMENT ☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 8. FLEXIBLE ☐ 10. RIGID PLASTIC 464b
☒ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 464c
PIPING/TURBINE CONTAINMENT SUMP TYPE ☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 90. NONE 464d

VI. VENT, VAPOR RECOVERY (VR) AND RISER / FILL PIPE PIPING CONSTRUCTION

VENT PRIMARY CONTAINMENT ☐ 1. STEEL ☒ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☐ 90. NONE ☐ 99. OTHER (Specify) 464e 464e1
VENT SECONDARY CONTAINMENT ☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☒ 90. NONE ☐ 99. OTHER (Specify) 464f 464f1
VR PRIMARY CONTAINMENT ☐ 1. STEEL ☒ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☐ 90. NONE ☐ 99. OTHER (Specify) 464g 464g1
VR SECONDARY CONTAINMENT ☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☒ 90. NONE ☐ 99. OTHER (Specify) 464h 464h1
VENT PIPING TRANSITION SUMP TYPE ☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 90. NONE 464i
RISER PRIMARY CONTAINMENT ☒ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☐ 90. NONE ☐ 99. OTHER (Specify) 464j 464j1
RISER SECONDARY CONTAINMENT ☐ 1. STEEL ☒ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☐ 90. NONE ☐ 99. OTHER (Specify) 464k 464k1
FILL COMPONENTS INSTALLED ☒ 1. SPILL BUCKET ☒ 3. STRIKER PLATE/BOTTOM PROTECTOR ☒ 4. CONTAINMENT SUMP 451a-c

VII. UNDER DISPENSER CONTAINMENT (UDC)

CONSTRUCTION TYPE ☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 3. NO DISPENSERS ☐ 90. NONE 469a
CONSTRUCTION MATERIAL ☐ 1. STEEL ☒ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☐ 99. OTHER (Specify) 469b-c

VIII. CORROSION PROTECTION

STEEL COMPONENT PROTECTION ☐ 2. SACRIFICIAL ANODE(S) ☐ 4. IMPRESSED CURRENT ☒ 6. ISOLATION 448.

IX. APPLICANT SIGNATURE

CERTIFICATION: I certify that this UST system is compatible with the hazardous substance stored and that the information provided herein is true, accurate, and in full compliance with legal requirements.

APPLICANT SIGNATURE Alison Musco
DATE 4/28/2014 470.

APPLICANT NAME (print) 471: ALISON MUSCO (CONTRACTOR) FOR OWNER
APPLICANT TITLE 472: CONTRACTOR FOR OWNER

UNIFIED PROGRAM CONSOLIDATED FORM
UNDERGROUND STORAGE TANK
OPERATING PERMIT APPLICATION – TANK INFORMATION (One form per UST)

TYPE OF ACTION (Check one item only. For an UST permanent closure or removal, complete only this section and Sections I, II, III, IV, and IX below) 430

☐ 1. NEW PERMIT ☐ 3. RENEWAL PERMIT ☐ 5. CHANGE OF INFORMATION
☐ 6. TEMPORARY UST CLOSURE ☐ 7. UST PERMANENT CLOSURE ON SITE ☒ 8. UST REMOVAL

DATE UST PERMANENTLY CLOSED: 430a | DATE EXISTING UST DISCOVERED: 430b

I. FACILITY INFORMATION

FACILITY ID # (*Agency Use Only*) 1

BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As) 3
POWELL SHELL #102 (CUPA)

BUSINESS SITE ADDRESS 103: 1800 1/2 POWELL STREET

CITY 104: EMERYVILLE

II. TANK DESCRIPTION

TANK ID # 2 432

TANK MANUFACTURER 433: OWENS CORNING

TANK CONFIGURATION: THIS TANK IS 434
☒ 1. A STAND-ALONE TANK
☐ 2. ONE IN A COMPARTMENTED UNIT.
Complete one page for each compartment in the unit.

DATE UST SYSTEM INSTALLED 435: 1/1/1980

TANK CAPACITY IN GALLONS 436: 10,000

NUMBER OF COMPARTMENTS IN THE UNIT 437: 1

III. TANK USE AND CONTENTS

TANK USE 439
☒ 1a. MOTOR VEHICLE FUELING ☐ 1b. MARINA FUELING ☐ 1c. AVIATION FUELING
☐ 3. CHEMICAL PRODUCT STORAGE ☐ 4. HAZARDOUS WASTE (Includes Used Oil) ☐ 5. EMERGENCY GENERATOR FUEL [HSC §25281.5(c)]
☐ 6. OTHER GENERATOR FUEL ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 439a

CONTENTS PETROLEUM: 440
☒ 1a. REGULAR UNLEADED ☐ 1c. MIDGRADE UNLEADED ☐ 1b. PREMIUM UNLEADED
☐ 3. DIESEL ☐ 5. JET FUEL ☐ 6. AVIATION GAS
☐ 8. PETROLEUM BLEND FUEL ☐ 9. OTHER PETROLEUM (Specify): 440a

NON-PETROLEUM:
☐ 7. USED OIL ☐ 10. ETHANOL
☐ 11. OTHER NON-PETROLEUM (Specify): 440b

IV. TANK CONSTRUCTION

TYPE OF TANK 443
☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 95. UNKNOWN

PRIMARY CONTAINMENT 444
☐ 1. STEEL ☒ 3. FIBERGLASS ☐ 6. INTERNAL BLADDER
☐ 7. STEEL + INTERNAL LINING ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 444a

SECONDARY CONTAINMENT 445
☐ 1. STEEL ☐ 3. FIBERGLASS ☐ 6. EXTERIOR MEMBRANE LINER ☐ 7. JACKETED
☒ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 445a

OVERFILL PREVENTION 452.
☒ 1. AUDIBLE & VISUAL ALARMS ☐ 2. BALL FLOAT ☒ 3. FILL TUBE SHUT-OFF VALVE
☐ 4. TANK MEETS REQUIREMENTS FOR EXEMPTION FROM OVERFILL PREVENTION EQUIPMENT

V. PRODUCT / WASTE PIPING CONSTRUCTION

PIPING CONSTRUCTION 460
☒ 1. SINGLE-WALLED ☐ 2. DOUBLE-WALLED ☐ 99. OTHER

SYSTEM TYPE 458
☒ 1. PRESSURE ☐ 2. GRAVITY ☐ 3. CONVENTIONAL SUCTION ☐ 4. SAFE SUCTION [23 CCR §2636(a)(3)]

PRIMARY CONTAINMENT 464
☐ 1. STEEL ☒ 4. FIBERGLASS ☐ 8. FLEXIBLE ☐ 10. RIGID PLASTIC
☐ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER(Specify): 464a

SECONDARY CONTAINMENT 464b
☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 8. FLEXIBLE ☐ 10. RIGID PLASTIC
☒ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 464c

PIPING/TURBINE CONTAINMENT SUMP TYPE 464d
☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 90. NONE

VI. VENT, VAPOR RECOVERY (VR) AND RISER / FILL PIPE PIPING CONSTRUCTION

VENT PRIMARY CONTAINMENT 464e / 464e1
☐ 1. STEEL ☒ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☐ 90. NONE ☐ 99. OTHER (Specify)

VENT SECONDARY CONTAINMENT 464f / 464f1
☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☒ 90. NONE ☐ 99. OTHER (Specify)

VR PRIMARY CONTAINMENT 464g / 464g1
☐ 1. STEEL ☒ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☐ 90. NONE ☐ 99. OTHER (Specify)

VR SECONDARY CONTAINMENT 464h / 464h1
☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☒ 90. NONE ☐ 99. OTHER (Specify)

VENT PIPING TRANSITION SUMP TYPE 464i.
☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 90. NONE

RISER PRIMARY CONTAINMENT 464j / 464j1
☒ 1. STEEL ☐ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☐ 90. NONE ☐ 99. OTHER (Specify)

RISER SECONDARY CONTAINMENT 464k / 464k1
☐ 1. STEEL ☒ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☐ 90. NONE ☐ 99. OTHER (Specify)

FILL COMPONENTS INSTALLED 451a-c
☒ 1. SPILL BUCKET ☒ 3. STRIKER PLATE/BOTTOM PROTECTOR ☒ 4. CONTAINMENT SUMP

VII. UNDER DISPENSER CONTAINMENT (UDC)

CONSTRUCTION TYPE 469a
☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 3. NO DISPENSERS ☐ 90. NONE

CONSTRUCTION MATERIAL 469b-c
☐ 1. STEEL ☒ 4. FIBERGLASS ☐ 10. RIGID PLASTIC ☐ 99. OTHER (Specify)

VIII. CORROSION PROTECTION

STEEL COMPONENT PROTECTION 448.
☐ 2. SACRIFICIAL ANODE(S) ☐ 4. IMPRESSED CURRENT ☒ 6. ISOLATION

IX. APPLICANT SIGNATURE

CERTIFICATION: I certify that this UST system is compatible with the hazardous substance stored and that the information provided herein is true, accurate, and in full compliance with legal requirements.

APPLICANT SIGNATURE Alison MUSCO | DATE 4/28/2014 470.

APPLICANT NAME (print) ALISON MUSCO (CONTRACTOR) FOR OWNER 471. | APPLICANT TITLE CONTRACTOR FOR OWNER 472.

UNIFIED PROGRAM CONSOLIDATED FORM
UNDERGROUND STORAGE TANK
OPERATING PERMIT APPLICATION – TANK INFORMATION (One form per UST)

TYPE OF ACTION (Check one item only. For an UST permanent closure or removal, complete only this section and Sections I, II, III, IV, and IX below) 430
☐ 1. NEW PERMIT ☐ 3. RENEWAL PERMIT ☐ 5. CHANGE OF INFORMATION
☐ 6. TEMPORARY UST CLOSURE ☐ 7. UST PERMANENT CLOSURE ON SITE ☒ 8. UST REMOVAL

DATE UST PERMANENTLY CLOSED: 430a | DATE EXISTING UST DISCOVERED: 430b

I. FACILITY INFORMATION

FACILITY ID # *(Agency Use Only)* 1

BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As) 3
POWELL SHELL #102 (CUPA)

BUSINESS SITE ADDRESS 103: 1800 1/2 POWELL STREET
CITY 104: EMERYVILLE

II. TANK DESCRIPTION

TANK ID # 3 432
TANK MANUFACTURER 433: OWENS CORNING
TANK CONFIGURATION: THIS TANK IS 434
☒ 1. A STAND-ALONE TANK
☐ 2. ONE IN A COMPARTMENTED UNIT .
Complete one page for each compartment in the unit.

DATE UST SYSTEM INSTALLED 435: 1/1/1980
TANK CAPACITY IN GALLONS 436: 10,000
NUMBER OF COMPARTMENTS IN THE UNIT 437: 1

III. TANK USE AND CONTENTS

TANK USE 439
☒ 1a. MOTOR VEHICLE FUELING ☐ 1b. MARINA FUELING ☐ 1c. AVIATION FUELING
☐ 3. CHEMICAL PRODUCT STORAGE ☐ 4. HAZARDOUS WASTE (Includes Used Oil) ☐ 5. EMERGENCY GENERATOR FUEL [HSC §25281.5(c)]
☐ 6. OTHER GENERATOR FUEL ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 439a

CONTENTS PETROLEUM: 440
☐ 1a. REGULAR UNLEADED ☐ 1c. MIDGRADE UNLEADED ☒ 1b. PREMIUM UNLEADED
☐ 3. DIESEL ☐ 5. JET FUEL ☐ 6. AVIATION GAS
☐ 8. PETROLEUM BLEND FUEL ☐ 9. OTHER PETROLEUM (Specify): 440a
NON-PETROLEUM: ☐ 7. USED OIL ☐ 10. ETHANOL
☐ 11. OTHER NON-PETROLEUM (Specify): 440b

IV. TANK CONSTRUCTION

TYPE OF TANK ☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 95. UNKNOWN 443
PRIMARY CONTAINMENT ☐ 1. STEEL ☒ 3. FIBERGLASS ☐ 6. INTERNAL BLADDER 444
☐ 7. STEEL + INTERNAL LINING ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 444a
SECONDARY CONTAINMENT ☐ 1. STEEL ☐ 3. FIBERGLASS ☐ 6. EXTERIOR MEMBRANE LINER ☐ 7. JACKETED 445
☒ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 445a
OVERFILL PREVENTION ☒ 1. AUDIBLE & VISUAL ALARMS ☐ 2. BALL FLOAT ☒ 3. FILL TUBE SHUT-OFF VALVE 452.
☐ 4. TANK MEETS REQUIREMENTS FOR EXEMPTION FROM OVERFILL PREVENTION EQUIPMENT

V. PRODUCT / WASTE PIPING CONSTRUCTION

PIPING CONSTRUCTION ☒ 1. SINGLE-WALLED ☐ 2. DOUBLE-WALLED ☐ 99. OTHER 460
SYSTEM TYPE ☒ 1. PRESSURE ☐ 2. GRAVITY ☐ 3. CONVENTIONAL SUCTION ☐ 4. SAFE SUCTION [23 CCR §2636(a)(3)] 458
PRIMARY CONTAINMENT ☐ 1. STEEL ☒ 4. FIBERGLASS ☐ 8. FLEXIBLE ☐ 10. RIGID PLASTIC 464
☐ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER(Specify): 464a
SECONDARY CONTAINMENT ☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 8. FLEXIBLE ☐ 10. RIGID PLASTIC 464b
☒ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 464c
PIPING/TURBINE CONTAINMENT SUMP TYPE ☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 90. NONE 464d

VI. VENT, VAPOR RECOVERY (VR) AND RISER / FILL PIPE PIPING CONSTRUCTION

VENT PRIMARY CONTAINMENT	☐ 1. STEEL	☒ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☐ 90. NONE	☐ 99. OTHER (Specify)	464e / 464e1
VENT SECONDARY CONTAINMENT	☐ 1. STEEL	☐ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☒ 90. NONE	☐ 99. OTHER (Specify)	464f / 464f1
VR PRIMARY CONTAINMENT	☐ 1. STEEL	☒ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☐ 90. NONE	☐ 99. OTHER (Specify)	464g / 464g1
VR SECONDARY CONTAINMENT	☐ 1. STEEL	☐ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☒ 90. NONE	☐ 99. OTHER (Specify)	464h / 464h1
VENT PIPING TRANSITION SUMP TYPE	☒ 1. SINGLE WALL		☐ 2. DOUBLE WALL	☐ 90. NONE		464i.
RISER PRIMARY CONTAINMENT	☒ 1. STEEL	☐ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☐ 90. NONE	☐ 99. OTHER (Specify)	464j / 464j1
RISER SECONDARY CONTAINMENT	☐ 1. STEEL	☒ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☐ 90. NONE	☐ 99. OTHER (Specify)	464k / 464k1
FILL COMPONENTS INSTALLED	☒ 1. SPILL BUCKET	☒ 3. STRIKER PLATE/BOTTOM PROTECTOR	☒ 4. CONTAINMENT SUMP			451a-c

VII. UNDER DISPENSER CONTAINMENT (UDC)

CONSTRUCTION TYPE	☒ 1. SINGLE WALL	☐ 2. DOUBLE WALL	☐ 3. NO DISPENSERS	☐ 90. NONE	469a
CONSTRUCTION MATERIAL	☐ 1. STEEL	☒ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☐ 99. OTHER (Specify)	469b-c

VIII. CORROSION PROTECTION

STEEL COMPONENT PROTECTION ☐ 2. SACRIFICIAL ANODE(S) ☐ 4. IMPRESSED CURRENT ☒ 6. ISOLATION 448.

IX. APPLICANT SIGNATURE

CERTIFICATION: I certify that this UST system is compatible with the hazardous substance stored and that the information provided herein is true, accurate, and in full compliance with legal requirements.

APPLICANT SIGNATURE Alison Musco | DATE 4/28/2014 470.

APPLICANT NAME (print) ALISON MUSCO 471.
(CONTRACTOR) FOR OWNER

APPLICANT TITLE CONTRACTOR FOR OWNER 472.

UNIFIED PROGRAM CONSOLIDATED FORM
UNDERGROUND STORAGE TANK
OPERATING PERMIT APPLICATION – TANK INFORMATION (One form per UST)

TYPE OF ACTION (Check one item only. For an UST permanent closure or removal, complete only this section and Sections I, II, III, IV, and IX below) 430
☐ 1. NEW PERMIT ☐ 3. RENEWAL PERMIT ☐ 5. CHANGE OF INFORMATION
☐ 6. TEMPORARY UST CLOSURE ☐ 7. UST PERMANENT CLOSURE ON SITE ☒ 8. UST REMOVAL

DATE UST PERMANENTLY CLOSED: 430a | DATE EXISTING UST DISCOVERED: 430b

I. FACILITY INFORMATION

FACILITY ID # (*Agency Use Only*) 1

BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As) 3
POWELL SHELL #102 (CUPA)

BUSINESS SITE ADDRESS 103: 1800 1/2 POWELL STREET
CITY 104: EMERYVILLE

II. TANK DESCRIPTION

TANK ID # 4 (432)
TANK MANUFACTURER 433: OWENS CORNING
TANK CONFIGURATION: THIS TANK IS 434
☒ 1. A STAND-ALONE TANK
☐ 2. ONE IN A COMPARTMENTED UNIT. Complete one page for each compartment in the unit.
DATE UST SYSTEM INSTALLED 435: 1/1/1980
TANK CAPACITY IN GALLONS 436: 10,000
NUMBER OF COMPARTMENTS IN THE UNIT 437: 1

III. TANK USE AND CONTENTS

TANK USE 439
☒ 1a. MOTOR VEHICLE FUELING ☐ 1b. MARINA FUELING ☐ 1c. AVIATION FUELING
☐ 3. CHEMICAL PRODUCT STORAGE ☐ 4. HAZARDOUS WASTE (Includes Used Oil) ☐ 5. EMERGENCY GENERATOR FUEL [HSC §25281.5(c)]
☐ 6. OTHER GENERATOR FUEL ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 439a

CONTENTS PETROLEUM: 440
☐ 1a. REGULAR UNLEADED ☐ 1c. MIDGRADE UNLEADED ☐ 1b. PREMIUM UNLEADED
☒ 3. DIESEL ☐ 5. JET FUEL ☐ 6. AVIATION GAS
☐ 8. PETROLEUM BLEND FUEL ☐ 9. OTHER PETROLEUM (Specify): 440a

NON-PETROLEUM: ☐ 7. USED OIL ☐ 10. ETHANOL
☐ 11. OTHER NON-PETROLEUM (Specify): 440b

IV. TANK CONSTRUCTION

TYPE OF TANK ☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 95. UNKNOWN 443

PRIMARY CONTAINMENT 444
☐ 1. STEEL ☒ 3. FIBERGLASS ☐ 6. INTERNAL BLADDER
☐ 7. STEEL + INTERNAL LINING ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 444a

SECONDARY CONTAINMENT 445
☐ 1. STEEL ☐ 3. FIBERGLASS ☐ 6. EXTERIOR MEMBRANE LINER ☐ 7. JACKETED
☒ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 445a

OVERFILL PREVENTION 452.
☒ 1. AUDIBLE & VISUAL ALARMS ☐ 2. BALL FLOAT ☒ 3. FILL TUBE SHUT-OFF VALVE
☐ 4. TANK MEETS REQUIREMENTS FOR EXEMPTION FROM OVERFILL PREVENTION EQUIPMENT

V. PRODUCT / WASTE PIPING CONSTRUCTION

PIPING CONSTRUCTION 460
☒ 1. SINGLE-WALLED ☐ 2. DOUBLE-WALLED ☐ 99. OTHER

SYSTEM TYPE 458
☒ 1. PRESSURE ☐ 2. GRAVITY ☐ 3. CONVENTIONAL SUCTION ☐ 4. SAFE SUCTION [23 CCR §2636(a)(3)]

PRIMARY CONTAINMENT 464
☐ 1. STEEL ☒ 4. FIBERGLASS ☐ 8. FLEXIBLE ☐ 10. RIGID PLASTIC
☐ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER(Specify): 464a

SECONDARY CONTAINMENT 464b
☐ 1. STEEL ☐ 4. FIBERGLASS ☐ 8. FLEXIBLE ☐ 10. RIGID PLASTIC
☒ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 464c

PIPING/TURBINE CONTAINMENT SUMP TYPE 464d
☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 90. NONE

VI. VENT, VAPOR RECOVERY (VR) AND RISER / FILL PIPE PIPING CONSTRUCTION

VENT PRIMARY CONTAINMENT	☐ 1. STEEL	☒ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☐ 90. NONE	☐ 99. OTHER (Specify)	464e / 464e1
VENT SECONDARY CONTAINMENT	☐ 1. STEEL	☐ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☒ 90. NONE	☐ 99. OTHER (Specify)	464f / 464f1
VR PRIMARY CONTAINMENT	☐ 1. STEEL	☒ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☐ 90. NONE	☐ 99. OTHER (Specify)	464g / 464g1
VR SECONDARY CONTAINMENT	☐ 1. STEEL	☐ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☒ 90. NONE	☐ 99. OTHER (Specify)	464h / 464h1
VENT PIPING TRANSITION SUMP TYPE	☒ 1. SINGLE WALL		☐ 2. DOUBLE WALL	☐ 90. NONE		464i.
RISER PRIMARY CONTAINMENT	☒ 1. STEEL	☐ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☐ 90. NONE	☐ 99. OTHER (Specify)	464j / 464j1
RISER SECONDARY CONTAINMENT	☐ 1. STEEL	☒ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☐ 90. NONE	☐ 99. OTHER (Specify)	464k / 464k1
FILL COMPONENTS INSTALLED	☒ 1. SPILL BUCKET	☒ 3. STRIKER PLATE/BOTTOM PROTECTOR	☒ 4. CONTAINMENT SUMP			451a-c

VII. UNDER DISPENSER CONTAINMENT (UDC)

CONSTRUCTION TYPE	☒ 1. SINGLE WALL	☐ 2. DOUBLE WALL	☐ 3. NO DISPENSERS	☐ 90. NONE	469a
CONSTRUCTION MATERIAL	☐ 1. STEEL	☒ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☐ 99. OTHER (Specify)	469b-c

VIII. CORROSION PROTECTION

STEEL COMPONENT PROTECTION ☐ 2. SACRIFICIAL ANODE(S) ☐ 4. IMPRESSED CURRENT ☒ 6. ISOLATION 448.

IX. APPLICANT SIGNATURE

CERTIFICATION: I certify that this UST system is compatible with the hazardous substance stored and that the information provided herein is true, accurate, and in full compliance with legal requirements.

APPLICANT SIGNATURE Alison Musco | DATE 4/28/2014 (470.)

APPLICANT NAME (print) ALISON MUSCO (CONTRACTOR) FOR OWNER (471.) | APPLICANT TITLE CONTRACTOR FOR OWNER (472.)

UNIFIED PROGRAM CONSOLIDATED FORM
UNDERGROUND STORAGE TANK
OPERATING PERMIT APPLICATION – FACILITY INFORMATION

(One form per facility)

TYPE OF ACTION (Check one item only) 400.
☐ 1. NEW PERMIT ☐ 5. CHANGE OF INFORMATION ☐ 7. PERMANENT FACILITY CLOSURE
☐ 3. RENEWAL PERMIT ☐ 6. TEMPORARY FACILITY CLOSURE ☐ 9. TRANSFER PERMIT

I. FACILITY INFORMATION

TOTAL NUMBER OF USTs AT FACILITY 404.: 4
FACILITY ID # (Agency Use Only) 1.:
BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3.: POWELL SHELL #102 (CUPA)
BUSINESS SITE ADDRESS 103.: 1800 1/2 POWELL STREET
CITY 104.: EMERYVILLE
FACILITY TYPE 403.: ☐ 1. MOTOR VEHICLE FUELING ☒ 2. FUEL DISTRIBUTION ☐ 3. FARM ☐ 4. PROCESSOR ☐ 6. OTHER
Is the facility located on Indian Reservation or Trust lands? 405.: ☐ Yes ☒ No

II. PROPERTY OWNER INFORMATION

PROPERTY OWNER NAME 407.: AU ENERGY, LLC
PHONE 408.: (510) 657-9150
MAILING ADDRESS 409.: 41805 ALBRAE STREET
CITY 410.: FREMONT
STATE 411.: CA
ZIP CODE 412.: 94538

III. TANK OPERATOR INFORMATION

TANK OPERATOR NAME 428-1.: AU ENERGY, LLC
PHONE 428-2.: (510) 657-9150
MAILING ADDRESS 428-3.: 41805 ALBRAE STREET
CITY 428-4.: FREMONT
STATE 428-5.: CA
ZIP CODE 428-6.: 94538

IV. TANK OWNER INFORMATION

TANK OWNER NAME 414.: AU ENERGY, LLC
PHONE 415.: (510) 657-9150
MAILING ADDRESS 416.: 41805 ALBRAE STREET
CITY 417.: FREMONT
STATE 418.: CA
ZIP CODE 419.: 94538
OWNER TYPE: 420.
☐ 4. LOCAL AGENCY/DISTRICT ☐ 5. COUNTY AGENCY ☐ 6. STATE AGENCY
☐ 7. FEDERAL AGENCY ☒ 8. NON-GOVERNMENT

V. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER

TY (TK) HQ 44- 0 4 8 0 0 1 — Call the State Board of Equalization, Fuel Tax Division, if there are questions. 421.

VI. PERMIT HOLDER INFORMATION

Issue permit and send legal notifications and mailings to: 423
☒ 1. FACILITY OWNER ☐ 4. TANK OPERATOR
☐ 3. TANK OWNER ☐ 5. FACILITY OPERATOR

SUPERVISOR OF DIVISION, SECTION, OR OFFICE (Required For Public Agencies Only) 406.

VII. APPLICANT SIGNATURE

CERTIFICATION: I certify that the information provided herein is true, accurate, and in full compliance with legal requirements.

APPLICANT SIGNATURE: Alison Musco
DATE 424.: 4/28/2014
PHONE 425.: (510) 657-9150
APPLICANT NAME (print) 426.: ALISON MUSCO (CONTRACTOR) FOR OWNER
APPLICANT TITLE 427.: CONTRACTOR FOR OWNER

Subject: UST REMOVAL PERMIT CONDITIONS

The following items are included in the Conditions of Approval:

This list is in addition to the items listed in the approved plans

1. A site safety plan shall be maintained on-site during all construction activities.
2. All stockpiled backfill/soil shall be placed on compatible plastic and covered to prevent runoff.
3. All stockpiled backfill/soil shall be properly sampled and disposal method/location approved by ACDEH prior to disposal.
4. All samples (soil and/or water) shall be analyzed based on Gasoline and Diesel Fuel minimum sample analysis found in Table 2 Verification Analysis for Underground Tank Leaks (see attached list)
5. All equipment previously in contact with petroleum shall be properly cleaned and/or disposed.
6. All equipment previously in contact with petroleum shall be placed on a plastic tarp and covered to prevent runoff.
7. Construction site shall limit access to authorized personnel (Contractor states 6 foot high fencing will be used).
8. Authorized personnel shall have appropriate training and certifications prior to beginning work
9. Water removed from the site (tank pit water and/or tank cleaning water) shall be contained in appropriate and compatible containers and shall be properly sampled / characterized and disposed of by a method/location approved by ACDEH prior to disposal.
10. All removal of UST components and sampling activities shall be witnessed by a representative of this office. Notify this inspector at least 48 hours prior to testing.
11. At no point shall the UST be moved and/or repositioned without prior authorization from ACDEH
12. Contractor will transport 4 single walled fiberglass tanks to Musco Excavators Construction Yard in Santa Rosa, CA (contractor is responsible for any requirements from Santa Rosa Fire Department and/or CUPA). According to contractor the four fiberglass tank will be crushed at that site and transported to appropriate landfill for disposal.
13. Submit all UST removal documents to ACDEH upon completion of work. i.e. Sampling results, disposal manifest/records, tank and piping disposal receipts, Title 22 Hazardous Waste Tank Closure Certification COC, closure report, etc.

Sparger Technology, Inc.
Environmental Division

Environmental Division
Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

ATTACHMENT B

3738 Bradview Drive• Sacramento, California - 95827• (916) 369-7688• Fax (916) 369-7689

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAL000350923	1	510 270-3418	010403863 JJK

GENERATOR

5. Generator's Name and Mailing Address
AU ENERGY, LLC
41805 ALBRAE STREET
FREMONT, CA 94538
Generator's Phone: 510 270-3411 Attn: JOHN ELLIS

Generator's Site Address (if different than mailing address)
AU ENERGY - POWELL SHELL
1800 1/2 POWELL STREET
EMERYVILLE, CA 94608

6. Transporter 1 Company Name: ADAMS SERVICES, INC. — U.S. EPA ID Number: CAR000189431

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
DEMENNO/KERDOON
2000 N. ALAMEDA STREET
COMPTON, CA 90222
Facility's Phone: 310 537-7100
U.S. EPA ID Number: CAT080013352

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-RCRA HAZARDOUS WASTE LIQUID (WATER WITH TRACE HYDROCARBONS)	1	TT	500	G	241
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
AVOID EYE CONTACT & WEAR RUBBER GLOVES 1) WATER WITH HYDROCARBONS
ERG 128
CONTRACTOR: MUSCO EXCAVATORS

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: BRIAN MUSCO — Signature: [signature] — Month: 5 Day: 19 Year: 14

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: KAY SCHOTT — Signature: [signature] — Month: 5 Day: 19 Year: 14

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H039			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a

Printed/Typed Name — Signature — Month — Day — Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAL000350923	1	510 270-3418	010403863 JJK

GENERATOR

5. Generator's Name and Mailing Address

AU ENERGY, LLC
41605 ALDRAE STREET
FREMONT, CA 94538

Generator's Phone: 510 270-3411 Attn: JOHN ELLIS

Generator's Site Address (if different than mailing address)

AU ENERGY - POWELL SHELL
1800 1/2 POWELL STREET
EMERYVILLE, CA 94608

6. Transporter 1 Company Name: ADAMS SERVICES, INC. U.S. EPA ID Number: CAR000189431

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address U.S. EPA ID Number

DEMENNO/KERDOON
2000 N. ALAMEDA STREET
COMPTON, CA 90222
CAT080013352

Facility's Phone: 310 537-7100

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. NON-RCRA HAZARDOUS WASTE LIQUID (WATER WITH TRACE HYDROCARBONS)	1	TT	500	G	241		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information

AVOID EYE CONTACT & WEAR RUBBER GLOVES 1) WATER WITH HYDROCARBONS
ERG 128
CONTRACTOR: MUSCO EXCAVATORS

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: BRIAN MUSCO Signature: [signature] Month: 5 Day: 19 Year: 14

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: RAY SCHOTL Signature: [signature] Month: 5 Day: 17 Year: 14

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H134			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name Signature Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

Sparger Technology, Inc.
Environmental Division

ATTACHMENT C

3738 Bradview Drive• Sacramento, California - 95827• (916) 369-7688• Fax (916) 369-7689

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS WASTE

HAZARDOUS WASTE TANK CLOSURE CERTIFICATION

I. FACILITY IDENTIFICATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3.
POWELL SHELL - 1800 1/2 POWELL ST.,

FACILITY ID# 1.

TANK OWNER NAME 740.
AU ENERGY, LLC

TANK OWNER ADDRESS 741.
41805 ALBRAE STREET

TANK OWNER CITY: FREMONT 742. | STATE: CA 743. | ZIP CODE: 94538 744.

II. TANK CLOSURE INFORMATION

TANK INTERIOR ATMOSPHERE READINGS	Tank ID # (Attach additional copies of this page for more than three tanks)	Concentration of Flammable Vapor			Concentration of Oxygen		
		Top	Center	Bottom	Top	Center	Bottom
1	1 745.	0% 746a.	0% 746b.	0% 746c.	20.9 747a.	20.9 747b.	20.9 747c.
2	2 748.	0% 749a.	0% 749b.	0% 749c.	20.9 750a.	20.9 750b.	20.9 750c.
3	3 751.	0% 752a.	0% 752b.	0% 752c.	20.9 753a.	20.9 753b.	20.9 753c.

III. CERTIFICATION

On examination of the tank, I certify the tank is visually free from product, sludge, scale (thin, flaky residual of tank contents), rinseate and debris. I further certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF CERTIFIER

NAME OF CERTIFIER (Print) 754.
BRYAN H. MUSCO

TITLE OF CERTIFIER 755.
OWNER OF MUSCO EXCAVATORS, INC.

ADDRESS 756.
2526 GREENVALE COURT

CITY 757.
SANTA ROSA

PHONE 758.
707-579-0250

DATE 759.
5/20/14

CERTIFICATION TIME
9:45 AM

STATUS OR AFFILIATION OF CERTIFYING PERSON

Certifier is a representative of the CUPA, authorized agency, or LIA: 760.

☐ Yes ☒ No

Name of CUPA, authorized agency, or LIA: 761.

If certifier is other than CUPA / LIA check appropriate box below: 762.

- ☐ a. Certified Industrial Hygienist (CIH)
- ☐ b. Certified Safety Professional (CSP)
- ☐ c. Certified Marine Chemist (CMC)
- ☐ d. Registered Environmental Health Specialist (REHS)
- ☐ e. Professional Engineer (PE)
- ☐ f. Class II Registered Environmental Assessor
- ☒ g. Contractors' State License Board licensed contractor (with hazardous substance removal certification)

TANK PREVIOUSLY HELD FLAMMABLE OR COMBUSTIBLE MATERIALS 763.

(If yes, the tank interior atmosphere shall be re-checked with a combustible gas indicator prior to work being conducted on the tank.) ☒ Yes ☐ No

CERTIFIER'S TANK MANAGEMENT INSTRUCTIONS FOR SCRAP DEALER, DISPOSAL FACILITY, ETC: 764.

The tanks being disposed of have been cleaned and declared non-hazardous. The tanks and lines were removed under the guidance of Alameda County Environmental Health and transported to a facility in Santa Rosa where they were crushed and will be disposed of at Potrero Hills Landfill in Suisun City, CA, the following day.

A copy of this certificate shall accompany the tank to the recycling disposal facility and be provided to the agency overseeing tank closure (i.e. CUPA or other authorized local agency); the owner and/or operator of the tank system; and the tank removal contractor.

UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS WASTE

HAZARDOUS WASTE TANK CLOSURE CERTIFICATION

I. FACILITY IDENTIFICATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) 3.
POWELL SHELL - 1800 1/2 POWELL ST., EMERYVILLE

FACILITY ID# 1.

TANK OWNER NAME 740.
AU ENERGY, LLC

TANK OWNER ADDRESS 741.
41805 ALBRAE STREET

TANK OWNER CITY FREMONT 742. STATE CA 743. ZIP CODE 94538 744.

II. TANK CLOSURE INFORMATION

TANK INTERIOR ATMOSPHERE READINGS	Tank ID # (Attach additional copies of this page for more than three tanks)	Concentration of Flammable Vapor			Concentration of Oxygen		
		Top	Center	Bottom	Top	Center	Bottom
	1 4 745.	0% 746a.	0% 746b.	0% 746c.	20.9 747a.	20.9 747b.	20.9 747c.
	2 748.	749a.	749b.	749c.	750a.	750b.	750c.
	3 751.	752a.	752b.	752c.	753a.	753b.	753c.

III. CERTIFICATION

On examination of the tank, I certify the tank is visually free from product, sludge, scale (thin, flaky residual of tank contents), rinseate and debris. I further certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF CERTIFIER
Bryan H. Musco

NAME OF CERTIFIER (Print) 754.
BRYAN H. MUSCO

TITLE OF CERTIFIER 755.
OWNER OF MUSCO EXCAVATORS, INC.

ADDRESS 756.
2526 GREENVALE COURT

CITY 757.
SANTA ROSA

PHONE 758.
707-579-0250

DATE 759. 5/20/14

CERTIFICATION TIME 9:45 AM

STATUS OR AFFILIATION OF CERTIFYING PERSON

Certifier is a representative of the CUPA, authorized agency, or LIA: 760.

☐ Yes ☒ No

Name of CUPA, authorized agency, or LIA: 761.

If certifier is other than CUPA / LIA check appropriate box below: 762.

- ☐ a. Certified Industrial Hygienist (CIH)
- ☐ b. Certified Safety Professional (CSP)
- ☐ c. Certified Marine Chemist (CMC)
- ☐ d. Registered Environmental Health Specialist (REHS)
- ☐ e. Professional Engineer (PE)
- ☐ f. Class II Registered Environmental Assessor
- ☒ g. Contractors' State License Board licensed contractor (with hazardous substance removal certification)

TANK PREVIOUSLY HELD FLAMMABLE OR COMBUSTIBLE MATERIALS 763.

(If yes, the tank interior atmosphere shall be re-checked with a combustible gas indicator prior to work being conducted on the tank.) ☒ Yes ☐ No

CERTIFIER'S TANK MANAGEMENT INSTRUCTIONS FOR SCRAP DEALER, DISPOSAL FACILITY, ETC: 764.

The tanks being disposed of have been cleaned and declared non-hazardous. The tanks and lines were removed under the guidance of Alameda County Environmental Health and transported to a facility in Santa Rosa where they were crushed and will be disposed of at Potrero Hills Landfill in Suisun City, CA, the following day.

A copy of this certificate shall accompany the tank to the recycling disposal facility and be provided to the agency overseeing tank closure (i.e. CUPA or other authorized local agency); the owner and/or operator of the tank system; and the tank removal contractor.

Sparger Technology, Inc.
Environmental Division

Environmental Division
Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

ATTACHMENT D

3738 Bradview Drive• Sacramento, California - 95827• (916) 369-7688• Fax (916) 369-7689

POTRERO HILLS LANDFILL
A Waste Connections Company

SCALE TAG# 01-0046705

NON-HAZARDOUS WASTE MANIFEST

GENERATOR INFORMATION

Generator Name: AU ENERGY
Address: 41805 ALBRAE STREET
City: FREMONT County: ALAMEDA
State: CA Zip: 94538
Site Location (if different): 1800 ½ POWELL STREET / EMERYVILLE, CA

CUSTOMER/BILLING INFORMATION

Billing Name: MUSCO EXCAVATORS, INC.
Address: 2526 GREENVALE COURT
City: SANTA ROSA County: SONOMA
State: CA Zip: 95401

Approval #	Description of Waste	Volume/Weight	Expiration Date	Container Type
PHLF14237	CRUSHED FIBERGLASS TANK	TNS	8/20/2014	

*Attach Additional Sheet if necessary

I hereby certify that the above-described materials are non-hazardous wastes as defined by 40 CFR 261 or any applicable state law. Further, that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

ALISON MUSCO On behalf of AUenergy — ALISON MUSCO — 5/21/14

Generator/Authorized Agent Name — Signature — Date Shipped

TRANSPORTER INFORMATION

Transporter Name: MUSCO Excavators Inc
Transporter Address: 2526 Greenvale Ct Santa Rosa CA 95401
License Plate#: 9B89145
Truck Number: 701
Phone Number: 7075790250

I certify no hazardous waste or other regulated substance was knowingly introduced to the waste while in my custody. The waste transported in this vehicle is the waste identified above, to the best of my knowledge.

ALISON MUSCO — ALISON MUSCO — 5/21/14

Driver / Authorized Agent Name (Print First, Last Name) — Signature — Date Delivered

DISPOSAL SITE INFORMATION

Site Name: POTRERO HILLS LANDFILL, INC.
Site Address: 3675 POTRERO HILLS LANE SUISUN, CA 94585
Phone No. 707-432-4627
Truck Weight:

I hereby acknowledge receipt of the above-described materials.

ST — ST — 5.21.14

Weigh Master Name (Print or Type) — Signature — Date Received

POTRERO HILLS LANDFILL, INC.
Weighed at:
POTRERO HILLS LANDFILL, INC.
P.O. Box 68
FAIRFIELD, CA 94533

Deputy: Renee Fowler
Deposit: Shannaine Jones
BILL TO: 1411
MUSCO EXCAVATORS

Vehicle ID:
Reference PHLF14237
Grid: 14
HaulCust# ORIGIN-EMERYVILLE
DriverOn?: N
Route: RX
TRLR/LP#: 9833145

Origin: EMERYVILLE
DATE IN: 05/21/2014 TIME IN: 09:08:22
DATE OUT: 05/21/2014 TIME OUT: 09:43:14

INBOUND TICKET Number: 01-00467705

SCALE 1 GROSS WT.	66800	LB
SCALE 3 TARE WT.	41460	LB
NET WEIGHT	25340	LB

Qty	Description	Amount
12.67	MSW/T(TRASH ON SCAL)	

Sparger Technology, Inc.
Environmental Division

Environmental Division
Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

ATTACHMENT E

3738 Bradview Drive• Sacramento, California - 95827• (916) 369-7688• Fax (916) 369-7689

BILL OF LADING/MANIFEST

1. Shipper's US EPA ID No. (If Applicable)	Document No.	2. Page 1 of
CAL000350923	49762	1

SHIPPER

3. Shipper's Name and Mailing Address: Au Energy - Powell Shell
1800 1/2 Powell St
Emeryville CA 94608-1808

4. Shipper's Phone (916-)632-4819

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
SAFETY-KLEEN SYSTEMS, INC.	TXR000081205	972-265-2000
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
EVG SAFETY-KLEEN OF CALIFORNIA, INC. 6880 SMITH AVE. NEWARK CA 94560	CAD980887418	510-795-4400

	11. Shipping Name and Description	HM	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a.	NON-REGULATED LIQUID (VAC-OIL, WATER, SLUDGE) (NOT USDOT/NOT USEPA REGULATED) (NOT CA REGULATED)		01	TT	3527	G
b.						
c.						
d.						

15. Special Handling Instruction and Additional Information

SK SHIP# 213192524 AU34468

24 HR EMERGENCY #1-800-468-1760 (SAFETY-KLEEN)
SK AUTHORIZED TO RETAIN LICENSED SUBSEQUENT CARRIERS AS NECESSARY

DOT/PRFL A. 3299/150451 B. C. D.

A) NONE B) C) D)

USE 16A OR 16B

16a. US DOT HAZARDOUS MATERIALS SHIPPER'S CERTIFICATION: *This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Printed/Typed Name | Signature required here if US DOT regulated | Month Day Year

16b. NON-REGULATED SHIPPER'S CERTIFICATION: I certify the materials described above on this form are not subject to federal regulations for Transportation or Disposal.

Printed/Typed Name: GREG TAYLOR | Sign here if material is not DOT regulated | Month 5 Day 19 Year 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: JOSEPH ROSA | Signature: Joseph Rosa | Month 5 Day 19 Year 14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of materials covered by this form except as noted in Item 19.

Printed/Typed Name: H135 TONY FOSTER | Signature | Month 5 Day 19 Year 14

24 HR EMERGENCY # 800-468-1760 (SAFETY-KLEEN-CONTRACT #94138)

ORIGINAL-RETURN TO GENERATOR

FORM NO. 01-90291 (04/11)

76238

Evergreen Oil, Inc. - Laboratory Sample Tag

Fingerprint Analysis:

Incoming Wastewater for Wastewater Treatment / Management

83143

Manifest #: 499762	Line item #:	EnviroWare Document #:
Generator: AU ENERGY EMERYVILLE SHELL		Profile #:
Transporter: SILS INC		CA Code: NON HAZ WATER
Compartment #: (1) 2 3 4 5		Estimated Volume / # of Drums:
Date: 5/19/14 3527		Received By *(Tech Services Signature):*

Analysis:	*Results:*			**Discrepant:*
Odor	OK			
Color	Clear			
pH, *Accepted range between 2 to 12.5*	7.0			< 2 , > 12.5
API Gravity @ 60° F.				
PCBs, < 5 ppm *Tested only if >10% oil*	Pass	Fail	n/t	> 5 ppm
Water, %	100			
Glycol, %				
Oil/Grease, %				> 1% if Non-Haz
Solids, %				
Flash Point, > 140° F.	Pass	Fail		< 140° F.
Total Organic Halides, % or ppm	P(NH101)			
Metals, ppm				
Phenols, ppm				
Total Toxic Organics, ppm				

**Please call Technical Services Dept. immediately for resolution*

Waste Management Process:

Bulk Operations:

- Tank 502 ☐
- Tank 651B ☐
- NH101 / NH102 ☑ Re
- TA-1218 / TA-1219 ☐

Drum Pad Operations:

- Trans-shipment to off site disposal facility ☐
- Consolidate into tanker truck ☐
- Other ☐

Accepted By: FLOC PASS

Comments:

BILL OF LADING/MANIFEST

1. Shipper's US EPA ID No. (If Applicable)	Document No.	2. Page 1 of
~~CAL000350923~~	~~01995~~ 93587	1

SHIPPER

3. Shipper's Name and Mailing Address: Au Energy - Powell Shell
1800 1/2 Powell St
Emeryville CA 94608-1808

4. Shipper's Phone: 916-632-4819

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
~~SAFETY-KLEEN SYSTEMS, INC.~~	~~TXR000001205~~	~~972-265-2000~~
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
EVG SAFETY-KLEEN OF CALIFORNIA, INC. 6880 SMITH AVE. NEWARK CA 94560	CAD980887418	510-795-4400

	11. Shipping Name and Description	HM	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a.	NON-REGULATED LIQUID (VAC-OIL, WATER, SLUDGE) (NOT USDOT/NOT USEPA REGULATED) (NOT CA REGULATED)		01	TT	5390	G
b.						
c.						
d.						

15. Special Handling Instruction and Additional Information

SK SHIP# 213192523 AU34468

24 HR EMERGENCY #1-800-468-1760 (SAFETY-KLEEN)
SK AUTHORIZED TO RETAIN LICENSED SUBSEQUENT CARRIERS AS NECESSARY

DOT/PRFL A. 3299/150451 B. C. D.

A) NONE B) C) D)

USE 16A OR 16B

16a. US DOT HAZARDOUS MATERIALS SHIPPER'S CERTIFICATION: "This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

Printed/Typed Name	Signature required here if US DOT regulated	Month	Day	Year

16b. NON-REGULATED SHIPPER'S CERTIFICATION: I certify the materials described above on this form are not subject to federal regulations for Transportation or Disposal.

Printed/Typed Name	Sign here if material is not DOT regulated	Month	Day	Year
GREG 7/4/08		5	19	2014

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
JOSEPH ROSA	Joseph Rosa	5	19	14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of materials covered by this form except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
PERCY SANCHEZ		5	19	14

24 HR EMERGENCY # 800-468-1760
(SAFETY-KLEEN-CONTRACT #94138)

ORIGINAL-RETURN TO GENERATOR

FORM NO. 01-90291 (04/11)

Evergreen Oil, Inc. - Laboratory Sample Tag

76238

Fingerprint Analysis:

Incoming Wastewater for Wastewater Treatment / Management

83143

Manifest #: 035587	Line item #:	EnviroWare Document #:
Generator: AO ENERGY EMERYVILLE SHELL		Profile #:
Transporter: SILS INC		CA Code: NON HAZ WATER
Compartment #: 1 2 3 4 5		Estimated Volume / # of Drums:
Date: 5/19/14 9390		Received By *(Tech Services Signature)*:

Analysis:	*Results:*			**Discrepant:*
Odor	OIL			
Color	BROWN			
pH, *Accepted range between 2 to 12.5*	7.0			< 2 , > 12.5
API Gravity @ 60° F.	5.7			
PCBs, < 5 ppm *Tested only if > 10% oil*	Pass	Fail	n/t	> 5 ppm
Water, %	>99			
Glycol, %	0			
Oil/Grease, %				> 1% if Non-Haz
Solids, %	4			
Flash Point, > 140° F.	Pass	Fail		< 140° F.
Total Organic Halides, % or ppm	<50PPM			
Metals, ppm				
Phenols, ppm				
Total Toxic Organics, ppm				

**Please call Technical Services Dept. immediately for resolution*

Waste Management Process:

Bulk Operations:

Tank 502	☐
Tank 651B	☐
~~NH101~~ / NH102	☒
TA-1218 / TA-1219	☐

PEN AP

Drum Pad Operations:

Trans-shipment to off site disposal facility	☐
Consolidate into tanker truck	☐
Other	☐

Accepted By:

Comments:

BILL OF LADING/MANIFEST

1. Shipper's US EPA ID No. (If Applicable): CAL000350923 | Document No.: 60682 | 2. Page 1 of 1

SHIPPER

3. Shipper's Name and Mailing Address: Au Energy - Powell Shell
1800 1/2 Powell St
Emeryville CA 94608-1808

4. Shipper's Phone (916-)632-4819

5. Transporter 1 Company Name: SAFETY-KLEEN SYSTEMS, INC. | 6. US EPA ID Number: TXR000081205 | A. Transporter's Phone: 972-265-2000

7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone

9. Designated Facility Name and Site Address: EVG
SAFETY-KLEEN OF CALIFORNIA, INC.
6880 SMITH AVE.
NEWARK CA 94560 | 10. US EPA ID Number: CAD980887418 | C. Facility's Phone: 510-795-4400

	11. Shipping Name and Description	HM	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a.	NON-REGULATED LIQUID (VAC-OIL, WATER, SLUDGE) (NOT USDOT/NOT USEPA REGULATED) (NOT CA REGULATED)		001	TT	00535	G
b.						
c.						
d.						

15. Special Handling Instruction and Additional Information

SK SHIP# 213609131 AU34468

24 HR EMERGENCY #1-800-468-1760 (SAFETY-KLEEN)
SK AUTHORIZED TO RETAIN LICENSED SUBSEQUENT CARRIERS AS NECESSARY

DOT/PRFL A. 3299/150451 B. C. D.

A) NONE B) C) D)

USE 16A OR 16B

16a. US DOT HAZARDOUS MATERIALS SHIPPER'S CERTIFICATION: "This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Printed/Typed Name | Signature required here if US DOT regulated | Month Day Year

16b. NON-REGULATED SHIPPER'S CERTIFICATION: I certify the materials described above on this form are not subject to federal regulations for Transportation or Disposal.

Printed/Typed Name: Larry L. Ledbetter | Sign here if material is not DOT regulated | Month Day Year: 07 09 14

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Marlon Shelton | Signature | Month Day Year: 07 09 14

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of materials covered by this form except as noted in Item 19.

Printed/Typed Name: PERCY SANCHEZ | Signature | Month Day Year: 07 09 14

24 HR EMERGENCY # 800-468-1760
(SAFETY-KLEEN-CONTRACT #94138)

ORIGINAL-RETURN TO GENERATOR

FORM NO. 01-90291 (04/11)

Safety-Kleen Systems, Inc. MARLON

A Clean Harbors Company

6880 Smith Avenue - Newark, CA 94560

Telephone (510) 795-4400

E105242

DATE _____

CUSTOMER'S NAME 83168

ADDRESS _____

COMMODITY _____

CARRIER _____

07/09/14
05:12 PM
71500 LB

07/10/14
12:14 PM
35220 LB

REMARKS _____

LBS. GROSS

LBS. TARE—DRIVER ON _____ OFF _____

LBS. NET @ _____ PER LB. PRICE _____

SHIPPER _____

WEIGHER _____

FAIRBANKS SCALE CAT. NO. 083906

02-10155 (10/13)

72581

Evergreen Oil, Inc. - Laboratory Sample Tag

61049
11842, 60682

Fingerprint Analysis:
Incoming Wastewater for Wastewater Treatment / Management

~~Manifest #:~~ ~~Line-item #:~~	~~EnviroWare Document #:~~
Generator: Pacific Auto Wash	Profile #:
Transporter: Marlon S	CA Code: 121 H
Compartment #: (1) 2 3 4 5	Estimated ~~Volume~~ # of Drums: 1400 GAL
Date: 7/9 – 83168	Received By *(Tech Services Signature)*:

Analysis:	*Results:*			**Discrepancy:*
Odor	OL			
Color	grey-			
pH *Accepted range between 2 to 12.5*	8-0			< 2 , > 12.5
API Gravity @ 60° F.	&			
PCBs: < 5 ppm *tested only if >10% oil*	Pass	Fail	n/t	> 5 ppm
Water, %	50%			
Glycol, %	&			
Oil/Grease, %	41			> 1% if Non-Haz
Solids, %	50%			
Flash Point, > 140° F.	Pass	Fail		< 140° F.
Total Organic Halides, % or ppm	P			
Metals, ppm *At the discretion of Laboratory Mgr.*				
Phenols, ppm *At the discretion of Laboratory Mgr.*				
Total Toxic Organics, ppm *At the discretion of Laboratory Mgr.*				

**Please call Technical Services Dept. immediately for resolution*

Waste Management Process:

Bulk Operations:

- Tank 502 ☑
- Tank 651B ☐
- NH101 / NH102 ☐
- TA-1218 / TA-1219 ☐

Drum Pad Operations:

- Trans-shipment to off site disposal facility ☐
- Consolidate into tanker truck ☐
- Other ☐

Accepted By:

Comments: 502 PER AE

Sparger Technology, Inc.
Environmental Division

Environmental Division
Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

ATTACHMENT F

3738 Bradview Drive• Sacramento, California - 95827• (916) 369-7688• Fax (916) 369-7689

Sparger Technology, Inc.
Environmental Laboratories

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Sunny Goyal
Au Energy
4185 Albrae Street
Fremont, CA 94538

Client	Au Energy
Workorder	20931 1800 Powell CUPA - Sampling
Received	05/20/14

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

Sparger Technology, Inc. ID Suffix Keys - These descriptors will follow the Sparger Technology, Inc. ID numbers and help identify the specific sample and clarify the report.

- DUP - Matrix Duplicate
- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- LCS - Lab Control Sample
- LCSD - Lab Control Sample Duplicate
- RPD - Relative Percent Difference
- QC - Additional Quality Control
- DIL - Results from a diluted sample
- ND - None Detected
- RL - Reporting Limit

Note: In an effort to conserve paper, the results are printed on both sides of the paper.

Ray James
Laboratory Director

3738 Bradview Drive • Sacramento, California 95827 • (916) 369-7688 • FAX (916) 369-7689

Sunny Goyal
Au Energy
4185 Albrae Street
Fremont, CA 94538

Workorder 20931

Enclosed are the results from samples received on May 20, 2014.

The requested analyses are listed below.

SAMPLE	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
20931001	TANK-4E, Soil	05/20/14	8015B TEPH S 8015B TPHgas S 8260B BTEX/FOC S
20931002	TANK-1E, Soil	05/20/14	8015B TPHgas S Org Pb LUFT S 8260B BTEX/FOC S 6010B S
20931003	TANK-2E, Soil	05/20/14	8015B TPHgas S Org Pb LUFT S 8260B BTEX/FOC S 6010B S
20931004	TANK-3E, Soil	05/20/14	8015B TPHgas S Org Pb LUFT S 8260B BTEX/FOC S 6010B S
20931005	TANK-4W, Soil	05/20/14	8015B TEPH S 8015B TPHgas S 8260B BTEX/FOC S
20931006	TANK-3W, Soil	05/20/14	8015B TPHgas S Org Pb LUFT S 8260B BTEX/FOC S 6010B S
20931007	TANK-2W, Soil	05/20/14	8015B TPHgas S Org Pb LUFT S 8260B BTEX/FOC S 6010B S
20931008	TANK-1W, Soil	05/20/14	8015B TPHgas S Org Pb LUFT S 8260B BTEX/FOC S 6010B S
20931009	UDC #5, Soil	05/20/14	8015B TPHgas S Org Pb LUFT S 8260B BTEX/FOC S 6010B S

Workorder 20931

SAMPLE	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
20931010	PT-1, Soil	05/20/14	8015B TPHgas S Org Pb LUFT S 8260B BTEX/FOC S 6010B S
20931011	UDC #4, Soil	05/20/14	8015B TPHgas S Org Pb LUFT S 8260B BTEX/FOC S 6010B S
20931012	UDC #1, Soil	05/20/14	8015B TPHgas S Org Pb LUFT S 8260B BTEX/FOC S 6010B S
20931013	UDC #2, Soil	05/20/14	8015B TEPH S 8015B TPHgas S 8260B BTEX/FOC S
20931014	PT-2, Soil	05/20/14	8015B TPHgas S Org Pb LUFT S 8260B BTEX/FOC S 6010B S
20931015	UDC #3, Soil	05/20/14	8015B TPHgas S Org Pb LUFT S 8260B BTEX/FOC S 6010B S
20931016	UDC #12, Soil	05/20/14	8015B TPHgas S Org Pb LUFT S 8260B BTEX/FOC S 6010B S
20931017	UDC #10_#11, Soil	05/20/14	8015B TPHgas S Org Pb LUFT S 8260B BTEX/FOC S 6010B S
20931018	UDC #8_#9, Soil	05/20/14	8015B TEPH S 8015B TPHgas S 8260B BTEX/FOC S
20931019	UDC #6_#7, Soil	05/20/14	8015B TPHgas S Org Pb LUFT S 8260B BTEX/FOC S 6010B S
20931020	PT-3, Soil	05/20/14	8015B TEPH S 8015B TPHgas S 8260B BTEX/FOC S

Test Certificate of Analysis

Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931001 **Sampled** 05/20/14
Sample ID TANK-4E **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TEPH

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel[1]	**8015B TEPH S**	**05/21/14**	**05/21/14**	**3800**	**10**	**mg/Kg**	**1:10**

1 - TPHmotor oil present in Diesel Range.

Laboratory ID 20931001 **Sampled** 05/20/14
Sample ID TANK-4E **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	16 ug/kg	80 %	(65 - 135)

Laboratory ID 20931001 **Sampled** 05/20/14
Sample ID TANK-4E **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	51 ug/kg	102 %	(65 - 135)

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931002 **Sampled** 05/20/14
Sample ID TANK-1E **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas[1]	**8015B TPHgas S**	**05/21/14**	**05/21/14**	**1.4**	**0.50**	**mg/Kg**	**1:1**

Surrogates	Result	Recovery	Limits
Trifluorotoluene	17.1 ug/kg	86 %	(65 - 135)

1 - TPHgas was weathered.

Laboratory ID 20931002 **Sampled** 05/20/14
Sample ID TANK-1E **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

LUFT, Organic Lead

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	ND	2.0	mg/Kg	1:1

Laboratory ID 20931002 **Sampled** 05/20/14
Sample ID TANK-1E **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1000	ug/kg	1:100
Methyl-tert-butyl-ether	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**330**	**50**	**ug/kg**	**1:100**
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Benzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**180**	**100**	**ug/kg**	**1:100**
Toluene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**340**	**100**	**ug/kg**	**1:100**
Ethylbenzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**370**	**100**	**ug/kg**	**1:100**
Xylene,Total	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**2000**	**100**	**ug/kg**	**1:100**
Naphthalene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**730**	**200**	**ug/kg**	**1:100**
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50 ug/kg	100 %	(65 - 135)

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931002 **Sampled** 05/20/14
Sample ID TANK-1E **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

6010B METALS

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	**6010B S**	**05/21/14**	**05/22/14**	**902**	**1.0**	**mg/Kg**	**1:1**

Laboratory ID 20931003 **Sampled** 05/20/14
Sample ID TANK-2E **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas[1]	**8015B TPHgas S**	**05/21/14**	**05/21/14**	**1.1**	**0.50**	**mg/Kg**	**1:1**

Surrogates	Result	Recovery	Limits
Trifluorotoluene	23.3 ug/kg	116 %	(65 - 135)

1 - TPHgas was weathered.

Laboratory ID 20931003 **Sampled** 05/20/14
Sample ID TANK-2E **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

LUFT, Organic Lead

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	ND	2.0	mg/Kg	1:1

Laboratory ID 20931003 **Sampled** 05/20/14
Sample ID TANK-2E **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1000	ug/kg	1:100
Methyl-tert-butyl-ether	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**1700**	**50**	**ug/kg**	**1:100**
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Benzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**1700**	**100**	**ug/kg**	**1:100**
Toluene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**480**	**100**	**ug/kg**	**1:100**
Ethylbenzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**440**	**100**	**ug/kg**	**1:100**

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931003 **Sampled** 05/20/14
Sample ID TANK-2E **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Xylene,Total	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**1600**	**100**	**ug/kg**	**1:100**
Naphthalene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**430**	**200**	**ug/kg**	**1:100**
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50 ug/kg	100 %	(65 - 135)

Laboratory ID 20931003 **Sampled** 05/20/14
Sample ID TANK-2E **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

6010B METALS

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	**6010B S**	**05/21/14**	**05/22/14**	**40.8**	**1.0**	**mg/Kg**	**1:1**

Laboratory ID 20931004 **Sampled** 05/20/14
Sample ID TANK-3E **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	13.6 ug/kg	68 %	(65 - 135)

Laboratory ID 20931004 **Sampled** 05/20/14
Sample ID TANK-3E **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

LUFT, Organic Lead

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	ND	2.0	mg/Kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931004 **Sampled** 05/20/14
Sample ID TANK-3E **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	48 ug/kg	96 %	(65 - 135)

Laboratory ID 20931004 **Sampled** 05/20/14
Sample ID TANK-3E **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

6010B METALS

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	**6010B S**	**05/21/14**	**05/22/14**	**181**	**1.0**	**mg/Kg**	**1:1**

Laboratory ID 20931005 **Sampled** 05/20/14
Sample ID TANK-4W **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TEPH

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel[1]	**8015B TEPH S**	**05/21/14**	**05/21/14**	**1700**	**10**	**mg/Kg**	**1:10**

1 - TPHmotor oil present in Diesel Range.

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Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931005 **Sampled** 05/20/14
Sample ID TANK-4W **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	16.9 ug/kg	84 %	(65 - 135)

Laboratory ID 20931005 **Sampled** 05/20/14
Sample ID TANK-4W **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	49 ug/kg	98 %	(65 - 135)

Laboratory ID 20931006 **Sampled** 05/20/14
Sample ID TANK-3W **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	15.9 ug/kg	80 %	(65 - 135)

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Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931006 **Sampled** 05/20/14
Sample ID TANK-3W **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

LUFT, Organic Lead

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	ND	2.0	mg/Kg	1:1

Laboratory ID 20931006 **Sampled** 05/20/14
Sample ID TANK-3W **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**5.3**	**1.0**	**ug/kg**	**1:1**
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50 ug/kg	100 %	(65 - 135)

Laboratory ID 20931006 **Sampled** 05/20/14
Sample ID TANK-3W **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

6010B METALS

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	**6010B S**	**05/21/14**	**05/22/14**	**85.0**	**1.0**	**mg/Kg**	**1:1**

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Mobile Laboratory Division
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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931007 **Sampled** 05/20/14
Sample ID TANK-2W **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas[1]	**8015B TPHgas S**	**05/21/14**	**05/21/14**	**0.60**	**0.50**	**mg/Kg**	**1:1**

Surrogates	Result	Recovery	Limits
Trifluorotoluene	14 ug/kg	70 %	(65 - 135)

1 - TPHgas was weathered.

Laboratory ID 20931007 **Sampled** 05/20/14
Sample ID TANK-2W **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

LUFT, Organic Lead

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	ND	2.0	mg/Kg	1:1

Laboratory ID 20931007 **Sampled** 05/20/14
Sample ID TANK-2W **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	49 ug/kg	98 %	(65 - 135)

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931007 **Sampled** 05/20/14
Sample ID TANK-2W **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

6010B METALS

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	**6010B S**	**05/21/14**	**05/22/14**	**21.0**	**1.0**	**mg/Kg**	**1:1**

Laboratory ID 20931008 **Sampled** 05/20/14
Sample ID TANK-1W **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	13.8 ug/kg	69 %	(65 - 135)

Laboratory ID 20931008 **Sampled** 05/20/14
Sample ID TANK-1W **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

LUFT, Organic Lead

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	ND	2.0	mg/Kg	1:1

Laboratory ID 20931008 **Sampled** 05/20/14
Sample ID TANK-1W **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

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Test Certificate of Analysis

Client ID	Au Energy	**Workorder ID**	1800 Powell CUPA - Sampling
Workorder #	20931	**Sampled**	05/20/14
Laboratory ID	20931008	**Received**	05/20/14
Sample ID	TANK-1W	**Reported**	05/21/14
Matrix	Soil		

8260B BTEX/Oxygenates - 8260B BTEX/FOC S (continued)

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50 ug/kg	100 %	(65 - 135)

Laboratory ID	20931008	**Sampled**	05/20/14
Sample ID	TANK-1W	**Received**	05/20/14
Matrix	Soil	**Reported**	05/21/14

6010B METALS

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	**6010B S**	**05/21/14**	**05/22/14**	**31.3**	**1.0**	**mg/Kg**	**1:1**

Laboratory ID	20931009	**Sampled**	05/20/14
Sample ID	UDC #5	**Received**	05/20/14
Matrix	Soil	**Reported**	05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	15.3 ug/kg	76 %	(65 - 135)

Laboratory ID	20931009	**Sampled**	05/20/14
Sample ID	UDC #5	**Received**	05/20/14
Matrix	Soil	**Reported**	05/21/14

LUFT, Organic Lead

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	ND	2.0	mg/Kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931009 **Sampled** 05/20/14
Sample ID UDC #5 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	49 ug/kg	98 %	(65 - 135)

Laboratory ID 20931009 **Sampled** 05/20/14
Sample ID UDC #5 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

6010B METALS

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	**6010B S**	**05/21/14**	**05/22/14**	**24.4**	**1.0**	**mg/Kg**	**1:1**

Laboratory ID 20931010 **Sampled** 05/20/14
Sample ID PT-1 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	13.3 ug/kg	66 %	(65 - 135)

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931010 **Sampled** 05/20/14
Sample ID PT-1 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

LUFT, Organic Lead

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	ND	2.0	mg/Kg	1:1

Laboratory ID 20931010 **Sampled** 05/20/14
Sample ID PT-1 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	49 ug/kg	98 %	(65 - 135)

Laboratory ID 20931010 **Sampled** 05/20/14
Sample ID PT-1 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

6010B METALS

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	**6010B S**	**05/21/14**	**05/22/14**	**78.2**	**1.0**	**mg/Kg**	**1:1**

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931011 **Sampled** 05/20/14
Sample ID UDC #4 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	13.7 ug/kg	68 %	(65 - 135)

Laboratory ID 20931011 **Sampled** 05/20/14
Sample ID UDC #4 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

LUFT, Organic Lead

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	ND	2.0	mg/Kg	1:1

Laboratory ID 20931011 **Sampled** 05/20/14
Sample ID UDC #4 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	48 ug/kg	96 %	(65 - 135)

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931011 **Sampled** 05/20/14
Sample ID UDC #4 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

6010B METALS

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	**6010B S**	**05/21/14**	**05/22/14**	**90.8**	**1.0**	**mg/Kg**	**1:1**

Laboratory ID 20931012 **Sampled** 05/20/14
Sample ID UDC #1 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	14.8 ug/kg	74 %	(65 - 135)

Laboratory ID 20931012 **Sampled** 05/20/14
Sample ID UDC #1 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

LUFT, Organic Lead

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	ND	2.0	mg/Kg	1:1

Laboratory ID 20931012 **Sampled** 05/20/14
Sample ID UDC #1 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

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Client ID	Au Energy	**Workorder ID**	1800 Powell CUPA - Sampling
Workorder #	20931	**Sampled**	05/20/14
Laboratory ID	20931012	**Received**	05/20/14
Sample ID	UDC #1	**Reported**	05/21/14
Matrix	Soil		

8260B BTEX/Oxygenates - 8260B BTEX/FOC S (continued)

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	49 ug/kg	98 %	(65 - 135)

Laboratory ID	20931012	**Sampled**	05/20/14
Sample ID	UDC #1	**Received**	05/20/14
Matrix	Soil	**Reported**	05/21/14

6010B METALS

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	**6010B S**	**05/21/14**	**05/22/14**	**144**	**1.0**	**mg/Kg**	**1:1**

Laboratory ID	20931013	**Sampled**	05/20/14
Sample ID	UDC #2	**Received**	05/20/14
Matrix	Soil	**Reported**	05/21/14

8015B TEPH

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel[1]	**8015B TEPH S**	**05/21/14**	**05/21/14**	**600**	**10**	**mg/Kg**	**1:10**

1 - TPHmotor oil present in Diesel Range.

Laboratory ID	20931013	**Sampled**	05/20/14
Sample ID	UDC #2	**Received**	05/20/14
Matrix	Soil	**Reported**	05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	13.7 ug/kg	68 %	(65 - 135)

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Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931013 **Sampled** 05/20/14
Sample ID UDC #2 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	48 ug/kg	96 %	(65 - 135)

Laboratory ID 20931014 **Sampled** 05/20/14
Sample ID PT-2 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	14.1 ug/kg	70 %	(65 - 135)

Laboratory ID 20931014 **Sampled** 05/20/14
Sample ID PT-2 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

LUFT, Organic Lead

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	ND	2.0	mg/Kg	1:1

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Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931014 **Sampled** 05/20/14
Sample ID PT-2 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	48 ug/kg	96 %	(65 - 135)

Laboratory ID 20931014 **Sampled** 05/20/14
Sample ID PT-2 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

6010B METALS

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	**6010B S**	**05/21/14**	**05/22/14**	**33.1**	**1.0**	**mg/Kg**	**1:1**

Laboratory ID 20931015 **Sampled** 05/20/14
Sample ID UDC #3 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	13.3 ug/kg	66 %	(65 - 135)

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Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931015 **Sampled** 05/20/14
Sample ID UDC #3 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

LUFT, Organic Lead

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	ND	2.0	mg/Kg	1:1

Laboratory ID 20931015 **Sampled** 05/20/14
Sample ID UDC #3 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**1.8**	**1.0**	**ug/kg**	**1:1**
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	48 ug/kg	96 %	(65 - 135)

Laboratory ID 20931015 **Sampled** 05/20/14
Sample ID UDC #3 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

6010B METALS

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	**6010B S**	**05/21/14**	**05/22/14**	**107**	**1.0**	**mg/Kg**	**1:1**

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Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931016 **Sampled** 05/20/14
Sample ID UDC #12 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	14.7 ug/kg	74 %	(65 - 135)

Laboratory ID 20931016 **Sampled** 05/20/14
Sample ID UDC #12 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

LUFT, Organic Lead

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	ND	2.0	mg/Kg	1:1

Laboratory ID 20931016 **Sampled** 05/20/14
Sample ID UDC #12 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**2.3**	**1.0**	**ug/kg**	**1:1**
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	49 ug/kg	98 %	(65 - 135)

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Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931016 **Sampled** 05/20/14
Sample ID UDC #12 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

6010B METALS

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	**6010B S**	**05/21/14**	**05/22/14**	**55.4**	**1.0**	**mg/Kg**	**1:1**

Laboratory ID 20931017 **Sampled** 05/20/14
Sample ID UDC #10_#11 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas[1]	**8015B TPHgas S**	**05/21/14**	**05/21/14**	**1100**	**50**	**mg/Kg**	**1:100**

Surrogates	Result	Recovery	Limits
Trifluorotoluene	15.7 ug/kg	78 %	(65 - 135)

1 - TPHgas was weathered.

Laboratory ID 20931017 **Sampled** 05/20/14
Sample ID UDC #10_#11 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

LUFT, Organic Lead

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	ND	2.0	mg/Kg	1:1

Laboratory ID 20931017 **Sampled** 05/20/14
Sample ID UDC #10_#11 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1000	ug/kg	1:100
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	50	ug/kg	1:100
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Benzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**2100**	**100**	**ug/kg**	**1:100**
Toluene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**8400**	**100**	**ug/kg**	**1:100**
Ethylbenzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**13000**	**100**	**ug/kg**	**1:100**

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Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931017 **Sampled** 05/20/14
Sample ID UDC #10_#11 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Xylene,Total	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**72000**	**100**	**ug/kg**	**1:100**
Naphthalene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**6200**	**200**	**ug/kg**	**1:100**
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	49 ug/kg	98 %	(65 - 135)

Laboratory ID 20931017 **Sampled** 05/20/14
Sample ID UDC #10_#11 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

6010B METALS

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	**6010B S**	**05/21/14**	**05/22/14**	**559**	**1.0**	**mg/Kg**	**1:1**

Laboratory ID 20931018 **Sampled** 05/20/14
Sample ID UDC #8_#9 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TEPH

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	**8015B TEPH S**	**05/21/14**	**05/21/14**	**1000**	**10**	**mg/Kg**	**1:10**

Laboratory ID 20931018 **Sampled** 05/20/14
Sample ID UDC #8_#9 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas[1]	**8015B TPHgas S**	**05/21/14**	**05/21/14**	**360**	**50**	**mg/Kg**	**1:100**

Surrogates	Result	Recovery	Limits
Trifluorotoluene	21.3 ug/kg	106 %	(65 - 135)

1 - TPHgas was weathered.

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931018 **Sampled** 05/20/14
Sample ID UDC #8_#9 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1000	ug/kg	1:100
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	50	ug/kg	1:100
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Toluene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**120**	**100**	**ug/kg**	**1:100**
Ethylbenzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**370**	**100**	**ug/kg**	**1:100**
Xylene,Total	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**5000**	**100**	**ug/kg**	**1:100**
Naphthalene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**2300**	**200**	**ug/kg**	**1:100**
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	51 ug/kg	102 %	(65 - 135)

Laboratory ID 20931019 **Sampled** 05/20/14
Sample ID UDC #6_#7 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas[1]	**8015B TPHgas S**	**05/21/14**	**05/21/14**	**980**	**50**	**mg/Kg**	**1:100**

Surrogates	Result	Recovery	Limits
Trifluorotoluene	16 ug/kg	80 %	(65 - 135)

1 - TPHgas was weathered.

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931019 **Sampled** 05/20/14
Sample ID UDC #6_#7 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

LUFT, Organic Lead

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	ND	2.0	mg/Kg	1:1

Laboratory ID 20931019 **Sampled** 05/20/14
Sample ID UDC #6_#7 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1000	ug/kg	1:100
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	50	ug/kg	1:100
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Benzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**920**	**100**	**ug/kg**	**1:100**
Toluene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**210**	**100**	**ug/kg**	**1:100**
Ethylbenzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**1100**	**100**	**ug/kg**	**1:100**
Xylene,Total	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**1800**	**100**	**ug/kg**	**1:100**
Naphthalene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**1500**	**200**	**ug/kg**	**1:100**
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50 ug/kg	100 %	(65 - 135)

Laboratory ID 20931019 **Sampled** 05/20/14
Sample ID UDC #6_#7 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

6010B METALS

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	**6010B S**	**05/21/14**	**05/22/14**	**49.0**	**1.0**	**mg/Kg**	**1:1**

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20931 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20931020 **Sampled** 05/20/14
Sample ID PT-3 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TEPH

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	**8015B TEPH S**	**05/21/14**	**05/21/14**	**1700**	**1.0**	**mg/Kg**	**1:1**

Laboratory ID 20931020 **Sampled** 05/20/14
Sample ID PT-3 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas[1]	**8015B TPHgas S**	**05/21/14**	**05/21/14**	**2700**	**50**	**mg/Kg**	**1:100**

Surrogates	Result	Recovery	Limits
Trifluorotoluene	36.4 ug/kg	182 %	(65 - 135)

1 - TPHgas was weathered.

Laboratory ID 20931020 **Sampled** 05/20/14
Sample ID PT-3 **Received** 05/20/14
Matrix Soil **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1000	ug/kg	1:100
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	50	ug/kg	1:100
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Benzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**4200**	**100**	**ug/kg**	**1:100**
Toluene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**180**	**100**	**ug/kg**	**1:100**
Ethylbenzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**19000**	**100**	**ug/kg**	**1:100**
Xylene,Total	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**2000**	**100**	**ug/kg**	**1:100**
Naphthalene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**25000**	**200**	**ug/kg**	**1:100**
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50 ug/kg	100 %	(65 - 135)

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472973 [SGXV/2939]
Laboratory ID	111349	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/21/14	05/21/14	ND	1.0	mg/Kg	1:1

Lab Control Sample Report

Client ID	Au Energy	**Sample ID**	LCS for HBN 472973 [SGXV/2939]
Laboratory ID	111350	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/21/14	05/21/14	48	1.0	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID	Au Energy	**Sample ID**	LCSD for HBN 472973 [SGXV/2939
Laboratory ID	111351	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/21/14	05/21/14	42	1.0	mg/Kg	1:1

Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 472973 [SGXV/2939]
Laboratory ID	111352	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/21/14	05/21/14	100	10	mg/Kg	1:10

Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472973 [SGXV/2939]
Laboratory ID	111353	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/21/14	05/21/14	92	10	mg/Kg	1:10

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 473070 [VMXV/3593]
Laboratory ID	111354	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 473070 [VMXV/3593]
Laboratory ID 111354 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50 ug/kg	100 %	(65 - 135)

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 473070 [VMXV/3593]
Laboratory ID 111355 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	271	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	54	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	52	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	56	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	57	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	169	1.0	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 473070 [VMXV/3593
Laboratory ID 111356 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution

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Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 473070 [VMXV/3593
Laboratory ID 111356 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	258	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	52	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	50	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	51	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	51	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	52	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	55	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	56	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	165	1.0	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 473070 [VMXV/3593]
Laboratory ID 111357 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	195	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	49	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	47	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	49	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	48	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	48	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	51	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	157	1.0	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 473070 [VMXV/3593]
Laboratory ID 111358 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	197	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	49	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	47	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	49	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	49	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	50	1.0	ug/kg	1:1

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Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 473070 [VMXV/3593]
Laboratory ID	111358	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	54	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	159	1.0	ug/kg	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 473074 [VGXV/3257]
Laboratory ID	111364	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	14.9 ug/kg	74 %	(65 - 135)

Lab Control Sample Report

Client ID	Au Energy	**Sample ID**	LCS for HBN 473074 [VGXV/3257]
Laboratory ID	111365	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	0.92	0.50	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID	Au Energy	**Sample ID**	LCSD for HBN 473074 [VGXV/3257
Laboratory ID	111366	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	0.88	0.50	mg/Kg	1:1

Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 473074 [VGXV/3257]
Laboratory ID	111367	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	1.1	0.50	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 473074 [VGXV/3257]
Laboratory ID	111368	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	1.0	0.50	mg/Kg	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 473078 [ICPV/7067]
Laboratory ID	111374	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B S	05/21/14	05/22/14	ND	1.0	mg/Kg	1:1

Lab Control Sample Report

Client ID	Au Energy	**Sample ID**	LCS for HBN 473078 [ICPV/7067]
Laboratory ID	111375	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B S	05/21/14	05/22/14	48.9	1.0	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID	Au Energy	**Sample ID**	LCSD for HBN 473078 [ICPV/7067
Laboratory ID	111376	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B S	05/21/14	05/22/14	48.6	1.0	mg/Kg	1:1

Duplicate Report

Client ID	Au Energy	**Sample ID**	DUP for HBN 473078 [ICPV/7067]
Laboratory ID	111377	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B S	05/21/14	05/22/14	845	1.0	mg/Kg	1:1

Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 473078 [ICPV/7067]
Laboratory ID	111378	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B S	05/21/14	05/22/14	1030	1.0	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111379
Sample ID MSD for HBN 473078 [ICPV/7067]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Lead	6010B S	05/21/14	05/22/14	1040	1.0 mg/Kg	1:1

Method Blank Report

Client ID Au Energy
Laboratory ID 111386
Sample ID MB for HBN 473082 [GFAV/1447]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	ND	2.0 mg/Kg	1:1

Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111387
Sample ID LCS for HBN 473082 [GFAV/1447]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	9.9	2.0 mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111388
Sample ID LCSD for HBN 473082 [GFAV/1447
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	9.8	2.0 mg/Kg	1:1

Duplicate Report

Client ID Au Energy
Laboratory ID 111389
Sample ID DUP for HBN 473082 [GFAV/1447]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	ND	2.0 mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy
Laboratory ID 111390
Sample ID MS for HBN 473082 [GFAV/1447]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	11	2.0 mg/Kg	1:1

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Scientific Division

Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 473082 [GFAV/1447]
Laboratory ID	111391	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	Org Pb LUFT S	05/21/14	05/21/14	11	2.0	mg/Kg	1:1

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QC SUMMARY

Client ID	Au Energy	**Original**	20931002
QC Batch	ICPP 7082	**Sample**	**Duplicate [111377]**
Matrix	Soil		

Parameter	RPD	RPD Limits
Lead	6.55	(35)

Client ID	Au Energy	**Original**	20931002
QC Batch	GFAP 1451	**Sample**	**Duplicate [111389]**
Matrix	Soil		

Parameter	RPD	RPD Limits
Organic Lead	00	(35)

Client ID	Au Energy	**Original**	20931001
QC Batch	SGX 2966	**Samples**	Matrix Spike [111352]
Matrix	Soil		Matrix Spike Duplicate [111353]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHdiesel	-7400	-7420	(65-135)	-0.3	(20 MAX)

Client ID	Au Energy	**Original**	20931016
QC Batch	VMX 3631	**Samples**	Matrix Spike [111357]
Matrix	Soil		Matrix Spike Duplicate [111358]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Tertiary butanol	78	79	(65-135)	1.3	(20 MAX)
Methyl-tert-butyl-ether	98	98	(65-135)	00	(20 MAX)
Di-isopropyl ether	94	94	(65-135)	00	(20 MAX)
Ethyl tert butyl ether	98	98	(65-135)	00	(20 MAX)
Tert amyl methyl ether	96	98	(65-135)	2.1	(20 MAX)
Benzene	96	100	(65-135)	4.1	(20 MAX)
Toluene	102	106	(65-135)	3.8	(20 MAX)
Ethylbenzene	106	108	(65-135)	1.9	(20 MAX)
Xylene,Total	103	104	(65-135)	1.0	(20 MAX)

Client ID	Au Energy	**Original**	20931016
QC Batch	VGX 3377	**Samples**	Matrix Spike [111367]
Matrix	Soil		Matrix Spike Duplicate [111368]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits

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QC SUMMARY

Client ID	Au Energy	**Original**	20931016
QC Batch	VGX 3377	**Samples**	Matrix Spike [111367]
Matrix	Soil		Matrix Spike Duplicate [111368]
			(continued)

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	110	105	(65-135)	4.7	(20 MAX)

Client ID	Au Energy	**Original**	20931002
QC Batch	ICPP 7082	**Samples**	Matrix Spike [111378]
Matrix	Soil		Matrix Spike Duplicate [111379]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	252	284	(75-125)	11.9	(35 MAX)

Client ID	Au Energy	**Original**	20931002
QC Batch	GFAP 1451	**Samples**	Matrix Spike [111390]
Matrix	Soil		Matrix Spike Duplicate [111391]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Organic Lead	108	109	(75-125)	0.90	(35 MAX)

Client ID	Au Energy	**Samples**	Lab Control Sample [111350]
QC Batch	SGX 2966		Lab Control Sample Duplicate [111351]
Matrix	Soil		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHdiesel	96	84	(65-135)	13	(20 MAX)

Client ID	Au Energy	**Samples**	Lab Control Sample [111355]
QC Batch	VMX 3631		Lab Control Sample Duplicate [111356]
Matrix	Soil		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Tertiary butanol	108	103	(65-135)	4.7	(20 MAX)
Methyl-tert-butyl-ether	108	104	(65-135)	3.8	(20 MAX)
Di-isopropyl ether	104	100	(65-135)	3.9	(20 MAX)
Ethyl tert butyl ether	106	102	(65-135)	3.8	(20 MAX)

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QC SUMMARY

Client ID Au Energy
QC Batch VMX 3631
Matrix Soil

Samples Lab Control Sample [111355]
Lab Control Sample Duplicate [111356]
(continued)

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Tert amyl methyl ether	106	102	(65-135)	3.8	(20 MAX)
Benzene	106	104	(65-135)	1.9	(20 MAX)
Toluene	112	110	(65-135)	1.8	(20 MAX)
Ethylbenzene	114	112	(65-135)	1.8	(20 MAX)
Xylene,Total	113	110	(65-135)	2.7	(20 MAX)

Client ID Au Energy
QC Batch VGX 3377
Matrix Soil

Samples Lab Control Sample [111365]
Lab Control Sample Duplicate [111366]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	92	88	(65-135)	4.4	(20 MAX)

Client ID Au Energy
QC Batch ICPP 7082
Matrix Soil

Samples Lab Control Sample [111375]
Lab Control Sample Duplicate [111376]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	97.8	97.2	(80-120)	0.6150	(20 MAX)

Client ID Au Energy
QC Batch GFAP 1451
Matrix Soil

Samples Lab Control Sample [111387]
Lab Control Sample Duplicate [111388]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Organic Lead	99	98	(80-120)	1.0	(20 MAX)

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Sparger Technology, Inc.
Environmental Laboratories

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Sacramento, CA 95827
Lab: (916) 369-7688
Fax: (916) 369-7689

20931

Profile/COC No: ____

Page 1 of 2

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): **Sunny Goyal**	California EDF Report? ☐ Yes ☑ No
Company / Address: **Au Energy** **4185 Albrae Street** **Fremont, CA 94538**	Sampling Company Log Code: NA
Phone #: 510-270-3411 / Fax #: 510-270-3411	Global ID: NA
Project #: CUPA 0520147	PDF/EDF Deliverable To (Email Address): Sunny@vintnersdist.com; johne@vintnersdist.com
Project Name: 10000 Powell Street CUPA - Sampling	Sampler Signature: / Sampler Name (PRINT):
Project Address: 10000 Powell St.	

	Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Sleeve	Poly	1-L amber	Tedlar	Other: 8oz Jar	Preservative: HCl	HNO_3	NaOH	H_2SO_4	Other: 4°C / ICE	Matrix: Water	Soil	Air	Other:
1	TANK-4E	5-20-14	10:46		X									X		X		
2	TANK-1E		11:10						X					X		X		
3	TANK-2E		11:13						X					X		X		
4	TANK-3E		11:19						X					X		X		
5	TANK-4W		11:47						X					X		X		
6	TANK-3W		11:51						X					X		X		
7	TANK-2W		11:56						X					X		X		
8	TANK-1W		12:00						X					X		X		
9	WDC #5		12:46	X	X									X		X		
10	PT-1	5-20-14	12:50	X	X									X		X		

Analysis Request

TPH Gas (EPA 8015M)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	5 Oxygenates / BTEX / Naphthalene (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	7 Oxygenates / BTEX (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Cam 5 (EPA 6010B): Cd Cr, Pb, Ni, Zn	Cam 17 (EPA 6010B)	Cam 17 WET / TCLP (EPA 6010B)	Organic Lead (LUFT)	6010 - Pb	ETOH	TAT	For Lab Use Only
X	X		X	X					X	X	X	X	X	
X			X	X					X	X	X		X	
X			X	X					X	X	X		X	
X			X	X					X	X	X		X	
X	X		X	X					X	X	X		X	
X			X	X					X	X	X		X	
X			X	X					X	X	X		X	
X			X	X					X	X	X		X	
X			X	X					X	X	X		X	
X			X	X					X	X	X		X	

TAT: ☒ 24 hr ☐ 48 hr ☐ 5 DY ☐ 10 DY

Relinquished by	Date	Time	Received by	Date	Time
JAY JAMES	5/20/14	16:30		5/20/14	16:30
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Laboratory:	Date	Time

Remarks: ETOH = Ethanol

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Condition
4	RE	5/20/14	16:30	O.K.

Sparger Technology, Inc.
Environmental Laboratories

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Lab: (916) 369-7688
Fax: (916) 369-7689

Profile/COC No: 20931

Page 2 of 2

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): **Sunny Goyal**	California EDF Report? ☐ Yes ☑ No
Company / Address: **Au Energy** **4185 Albrae Street** **Fremont, CA 94538**	Sampling Company Log Code: NA
Phone #: 510-270-3411 / Fax #: 510-270-3411	Global ID: NA
Project #: CUPA / P.O. #: 052014	PDF/EDF Deliverable To (Email Address): Sunny@vintnersdist.com; johne@vintnersdist.com
Project Name: 1800 Powell Street CUPA Sampling	Sampler Signature: / Sampler Name (PRINT): RAY JAIME
Project Address: 1800 Powell	

TAT: ☐ 24 hr ☐ 48 hr ☐ 5 DY ☐ 10 DY

	Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: 1-L amber	Container: Tedlar	Container: Other:	Preservative: HCl	Preservative: HNO_3	Preservative: NaOH	Preservative: H_2SO_4	Preservative: Other: 4°C / ICE	Matrix: Water	Matrix: Soil	Matrix: Air	Matrix: Other:	Analysis Request: TPH Gas (EPA 8015M)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	5 Oxygenates / BTEX / Naphthalene (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	7 Oxygenates / BTEX (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Cam 5 (EPA 6010B): Cd Cr, Pb, Ni, Zn	Cam 17 (EPA 6010B)	Cam 17 WET / TCLP (EPA 6010B)	Organic Lead (LUFT)	ETOH / 6010 - Pb
1	UDC #4	5-20-14	12:58		X									X		X			X			X	X					X	X
2	UDC #1		13:00		X									X		X			X			X	X					X	X
3	UDC #2		13:10		X									X		X			X	X		X	X					X	X
4	PT-2		13:15		X									X		X			X			X	X					X	X
5	UDC #3		13:20		X									X		X			X			X	X					X	X
6	UDC #12		13:25		X									X		X			X			X	X					X	X
7	UDC #10_#11		13:28		X									X		X			X			X	X					X	X
8	UDC #8_#9		13:31		X									X		X			X	X		X	X					X	X
9	UDC #6_#7	5-20-14	13:33		X									X		X			X			X	X					X	X
10	PT-3	5-20-14	13:44		X									X		X			X	X		X	X					X	X

Relinquished by:	Date	Time	Received by:	Date	Time
RAY JAIME	5/20/14	16:20		5/20/14	16:30
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Laboratory:	Date	Time

Remarks: ETOH = Ethanol

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Condition
4		5/20/14	16:30	O.K.

Sparger Technology, Inc.
Environmental Laboratories

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Sunny Goyal
Au Energy
4185 Albrae Street
Fremont, CA 94538

Client	Au Energy
Workorder	20932 1800 Powell CUPA - Sampling
Received	05/20/14

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

Sparger Technology, Inc. ID Suffix Keys - These descriptors will follow the Sparger Technology, Inc. ID numbers and help identify the specific sample and clarify the report.

DUP - Matrix Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
LCS - Lab Control Sample
LCSD - Lab Control Sample Duplicate
RPD - Relative Percent Difference
QC - Additional Quality Control
DIL - Results from a diluted sample
ND - None Detected
RL - Reporting Limit

Note: In an effort to conserve paper, the results are printed on both sides of the paper.

Ray James
Laboratory Director

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Sunny Goyal
Au Energy
4185 Albrae Street
Fremont, CA 94538

Workorder 20932

Enclosed are the results from samples received on May 20, 2014.

The requested analyses are listed below.

SAMPLE	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
20932001	TANK PIT WATER, Water	05/20/14	8015B TEPH 8015B TPHgas LUFT 8260B BTEX/FOC W 6010B

Test Certificate of Analysis

Client ID Au Energy
Workorder # 20932 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID 20932001 **Sampled** 05/20/14
Sample ID TANK PIT WATER **Received** 05/20/14
Matrix Water **Reported** 05/21/14

8015B TEPH

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	**8015B TEPH**	**05/21/14**	**05/21/14**	**29000**	**500**	**ug/L**	**1:10**

Laboratory ID 20932001 **Sampled** 05/20/14
Sample ID TANK PIT WATER **Received** 05/20/14
Matrix Water **Reported** 05/21/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas[1]	**8015B TPHgas**	**05/21/14**	**05/21/14**	**12000**	**500**	**ug/L**	**1:10**

Surrogates	Result	Recovery	Limits
Trifluorotoluene	19.2 ug/L	96 %	(65 - 135)

1 - TPHgas was weathered.

Laboratory ID 20932001 **Sampled** 05/20/14
Sample ID TANK PIT WATER **Received** 05/20/14
Matrix Water **Reported** 05/21/14

LUFT, Organic Lead

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	LUFT	05/21/14	05/21/14	ND	1.0	mg/L	1:1

Laboratory ID 20932001 **Sampled** 05/20/14
Sample ID TANK PIT WATER **Received** 05/20/14
Matrix Water **Reported** 05/21/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/L	1:10
Methyl-tert-butyl-ether	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**20**	**5.0**	**ug/L**	**1:10**
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/L	1:10
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/L	1:10
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/L	1:10
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/L	1:10
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/L	1:10
Benzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**290**	**10**	**ug/L**	**1:10**
Toluene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**2100**	**10**	**ug/L**	**1:10**
Ethylbenzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**360**	**10**	**ug/L**	**1:10**

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20932 **Workorder ID** 1800 Powell CUPA - Sampling

Laboratory ID	20932001	**Sampled**	05/20/14
Sample ID	TANK PIT WATER	**Received**	05/20/14
Matrix	Water	**Reported**	05/21/14

8260B BTEX/Oxygenates (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	2600	10	ug/L	1:10
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	40	20	ug/L	1:10
Ethanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	50	ug/L	1:10

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	53 ug/L	106 %	(65 - 135)

Laboratory ID	20932001	**Sampled**	05/20/14
Sample ID	TANK PIT WATER	**Received**	05/20/14
Matrix	Water	**Reported**	05/21/14

6010B METALS

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	05/21/14	05/23/14	0.026	0.010	mg/L	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472970 [SGXV/2938]
Laboratory ID	111344	**Matrix**	Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH	05/21/14	05/21/14	ND	50	ug/L	1:1

Lab Control Sample Report

Client ID	Au Energy	**Sample ID**	LCS for HBN 472970 [SGXV/2938]
Laboratory ID	111345	**Matrix**	Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH	05/21/14	05/21/14	930	50	ug/L	1:1

Lab Control Sample Duplicate Report

Client ID	Au Energy	**Sample ID**	LCSD for HBN 472970 [SGXV/2938
Laboratory ID	111346	**Matrix**	Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH	05/21/14	05/21/14	1000	50	ug/L	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 473072 [VMXV/3594]
Laboratory ID	111359	**Matrix**	Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/L	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/L	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/L	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/L	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/L	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/L	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/L	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/L	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/L	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/L	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/L	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/L	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50 ug/L	100 %	(65 - 135)

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Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111360
Sample ID LCS for HBN 473072 [VMXV/3594]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B	BTEX/FOC05/21/14	05/21/14	271	10	ug/L	1:1
Methyl-tert-butyl-ether	8260B	BTEX/FOC05/21/14	05/21/14	54	0.50	ug/L	1:1
Di-isopropyl ether	8260B	BTEX/FOC05/21/14	05/21/14	52	1.0	ug/L	1:1
Ethyl tert butyl ether	8260B	BTEX/FOC05/21/14	05/21/14	53	1.0	ug/L	1:1
Tert amyl methyl ether	8260B	BTEX/FOC05/21/14	05/21/14	53	1.0	ug/L	1:1
Benzene	8260B	BTEX/FOC05/21/14	05/21/14	53	1.0	ug/L	1:1
Toluene	8260B	BTEX/FOC05/21/14	05/21/14	56	1.0	ug/L	1:1
Ethylbenzene	8260B	BTEX/FOC05/21/14	05/21/14	57	1.0	ug/L	1:1
Xylene,Total	8260B	BTEX/FOC05/21/14	05/21/14	169	1.0	ug/L	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111361
Sample ID LCSD for HBN 473072 [VMXV/3594
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B	BTEX/FOC05/21/14	05/21/14	258	10	ug/L	1:1
Methyl-tert-butyl-ether	8260B	BTEX/FOC05/21/14	05/21/14	52	0.50	ug/L	1:1
Di-isopropyl ether	8260B	BTEX/FOC05/21/14	05/21/14	50	1.0	ug/L	1:1
Ethyl tert butyl ether	8260B	BTEX/FOC05/21/14	05/21/14	51	1.0	ug/L	1:1
Tert amyl methyl ether	8260B	BTEX/FOC05/21/14	05/21/14	51	1.0	ug/L	1:1
Benzene	8260B	BTEX/FOC05/21/14	05/21/14	52	1.0	ug/L	1:1
Toluene	8260B	BTEX/FOC05/21/14	05/21/14	55	1.0	ug/L	1:1
Ethylbenzene	8260B	BTEX/FOC05/21/14	05/21/14	56	1.0	ug/L	1:1
Xylene,Total	8260B	BTEX/FOC05/21/14	05/21/14	165	1.0	ug/L	1:1

Matrix Spike Report

Client ID Au Energy
Laboratory ID 111362
Sample ID MS for HBN 473072 [VMXV/3594]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B	BTEX/FOC05/21/14	05/21/14	3150	10	ug/L	1:1
Methyl-tert-butyl-ether	8260B	BTEX/FOC05/21/14	05/21/14	718	0.50	ug/L	1:1
Di-isopropyl ether	8260B	BTEX/FOC05/21/14	05/21/14	700	1.0	ug/L	1:1
Ethyl tert butyl ether	8260B	BTEX/FOC05/21/14	05/21/14	720	1.0	ug/L	1:1
Tert amyl methyl ether	8260B	BTEX/FOC05/21/14	05/21/14	710	1.0	ug/L	1:1
Benzene	8260B	BTEX/FOC05/21/14	05/21/14	995	1.0	ug/L	1:1
Toluene	8260B	BTEX/FOC05/21/14	05/21/14	2930	1.0	ug/L	1:1
Ethylbenzene	8260B	BTEX/FOC05/21/14	05/21/14	1150	1.0	ug/L	1:1

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Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 473072 [VMXV/3594]
Laboratory ID 111362 **Matrix** Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	4740	1.0	ug/L	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 473072 [VMXV/3594]
Laboratory ID 111363 **Matrix** Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	2730	10	ug/L	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	621	0.50	ug/L	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	599	1.0	ug/L	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	619	1.0	ug/L	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	610	1.0	ug/L	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	854	1.0	ug/L	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	2500	1.0	ug/L	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	975	1.0	ug/L	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	3990	1.0	ug/L	1:1

Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 473076 [VGXV/3258]
Laboratory ID 111369 **Matrix** Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas	05/21/14	05/21/14	ND	50	ug/L	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	14.9 ug/L	74 %	(65 - 135)

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 473076 [VGXV/3258]
Laboratory ID 111370 **Matrix** Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas	05/21/14	05/21/14	915	50	ug/L	1:1

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Lab Control Sample Duplicate Report

Client ID	Au Energy	**Sample ID**	LCSD for HBN 473076 [VGXV/3258
Laboratory ID	111371	**Matrix**	Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas	05/21/14	05/21/14	883	50	ug/L	1:1

Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 473076 [VGXV/3258]
Laboratory ID	111372	**Matrix**	Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas	05/21/14	05/21/14	22000	50	ug/L	1:1

Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 473076 [VGXV/3258]
Laboratory ID	111373	**Matrix**	Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas	05/21/14	05/21/14	20600	50	ug/L	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 473080 [ICPV/7068]
Laboratory ID	111380	**Matrix**	Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	05/21/14	05/23/14	ND	0.010	mg/L	1:1

Lab Control Sample Report

Client ID	Au Energy	**Sample ID**	LCS for HBN 473080 [ICPV/7068]
Laboratory ID	111381	**Matrix**	Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	05/21/14	05/23/14	0.495	0.010	mg/L	1:1

Lab Control Sample Duplicate Report

Client ID	Au Energy	**Sample ID**	LCSD for HBN 473080 [ICPV/7068
Laboratory ID	111382	**Matrix**	Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	05/21/14	05/23/14	0.499	0.010	mg/L	1:1

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Duplicate Report

Client ID Au Energy
Laboratory ID 111383
Sample ID DUP for HBN 473080 [ICPV/7068]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	05/21/14	05/23/14	0.023	0.010	mg/L	1:1

Matrix Spike Report

Client ID Au Energy
Laboratory ID 111384
Sample ID MS for HBN 473080 [ICPV/7068]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	05/21/14	05/23/14	0.455	0.010	mg/L	1:1

Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111385
Sample ID MSD for HBN 473080 [ICPV/7068]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Lead	6010B	05/21/14	05/23/14	0.462	0.010	mg/L	1:1

Method Blank Report

Client ID Au Energy
Laboratory ID 111392
Sample ID MB for HBN 473084 [GFAV/1448]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	LUFT	05/21/14	05/21/14	ND	1.0	mg/L	1:1

Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111393
Sample ID LCS for HBN 473084 [GFAV/1448]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	LUFT	05/21/14	05/21/14	11	1.0	mg/L	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111394
Sample ID LCSD for HBN 473084 [GFAV/1448
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	LUFT	05/21/14	05/21/14	11	1.0	mg/L	1:1

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Duplicate Report

Client ID	Au Energy	**Sample ID**	DUP for HBN 473084 [GFAV/1448]
Laboratory ID	111395	**Matrix**	Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	LUFT	05/21/14	05/21/14	ND	1.0	mg/L	1:1

Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 473084 [GFAV/1448]
Laboratory ID	111396	**Matrix**	Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	LUFT	05/21/14	05/21/14	8.1	1.0	mg/L	1:1

Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 473084 [GFAV/1448]
Laboratory ID	111397	**Matrix**	Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Organic Lead	LUFT	05/21/14	05/21/14	8.1	1.0	mg/L	1:1

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QC SUMMARY

Client ID	Au Energy	**Original**	20932001
QC Batch	ICPP 7083	**Sample**	**Duplicate [111383]**
Matrix	Water		

Parameter	**RPD**	**RPD Limits**
Lead	12.2	(35)

Client ID	Au Energy	**Original**	20932001
QC Batch	GFAP 1452	**Sample**	**Duplicate [111395]**
Matrix	Water		

Parameter	**RPD**	**RPD Limits**
Organic Lead	00	(35)

Client ID	Au Energy	**Original**	20932001
QC Batch	VMX 3632	**Samples**	Matrix Spike [111362]
Matrix	Water		Matrix Spike Duplicate [111363]

Parameter	**Spike %Recovery**	**Spike Dup %Recovery**	**Recovery Limits**	**RPD**	**RPD Limits**
Tertiary butanol	125	108	(65-135)	15	(20 MAX)
Methyl-tert-butyl-ether	140	120	(65-135)	15	(20 MAX)
Di-isopropyl ether	140	120	(65-135)	15	(20 MAX)
Ethyl tert butyl ether	144	124	(65-135)	15	(20 MAX)
Tert amyl methyl ether	142	122	(65-135)	15	(20 MAX)
Benzene	141	113	(65-135)	22	(20 MAX)
Toluene	166	80	(65-135)	70	(20 MAX)
Ethylbenzene	159	123	(65-135)	26	(20 MAX)
Xylene,Total	143	93	(65-135)	42	(20 MAX)

Client ID	Au Energy	**Original**	20932001
QC Batch	VGX 3378	**Samples**	Matrix Spike [111372]
Matrix	Water		Matrix Spike Duplicate [111373]

Parameter	**Spike %Recovery**	**Spike Dup %Recovery**	**Recovery Limits**	**RPD**	**RPD Limits**
TPHgas	100	86	(65-135)	15	(20 MAX)

Client ID	Au Energy	**Original**	20932001
QC Batch	ICPP 7083	**Samples**	Matrix Spike [111384]
Matrix	Water		Matrix Spike Duplicate [111385]

Parameter	**Spike %Recovery**	**Spike Dup %Recovery**	**Recovery Limits**	**RPD**	**RPD Limits**

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QC SUMMARY

Client ID Au Energy
QC Batch ICPP 7083
Matrix Water
Original Samples 20932001
Matrix Spike [111384]
Matrix Spike Duplicate [111385]
(continued)

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Lead	85.8	87.2	(75-125)	1.62	(35 MAX)

Client ID Au Energy
QC Batch GFAP 1452
Matrix Water
Original Samples 20932001
Matrix Spike [111396]
Matrix Spike Duplicate [111397]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Organic Lead	81	81	(75-125)	00	(35 MAX)

Client ID Au Energy
QC Batch SGX 2965
Matrix Water
Samples Lab Control Sample [111345]
Lab Control Sample Duplicate [111346]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHdiesel	93	100	(65-135)	7.3	(20 MAX)

Client ID Au Energy
QC Batch VMX 3632
Matrix Water
Samples Lab Control Sample [111360]
Lab Control Sample Duplicate [111361]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Tertiary butanol	108	103	(65-135)	4.7	(20 MAX)
Methyl-tert-butyl-ether	108	104	(65-135)	3.8	(20 MAX)
Di-isopropyl ether	104	100	(65-135)	3.9	(20 MAX)
Ethyl tert butyl ether	106	102	(65-135)	3.8	(20 MAX)
Tert amyl methyl ether	106	102	(65-135)	3.8	(20 MAX)
Benzene	106	104	(65-135)	1.9	(20 MAX)
Toluene	112	110	(65-135)	1.8	(20 MAX)
Ethylbenzene	114	112	(65-135)	1.8	(20 MAX)
Xylene,Total	113	110	(65-135)	2.7	(20 MAX)

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QC SUMMARY

Client ID	Au Energy		**Samples**	Lab Control Sample [111370]		
QC Batch	VGX 3378			Lab Control Sample Duplicate [111371]		
Matrix	Water					
Parameter		**Check %Recovery**	**Check Dup %Recovery**	**Recovery Limits**	**RPD**	**RPD Limits**
TPHgas		92	88	(65-135)	4.4	(20 MAX)

Client ID	Au Energy		**Samples**	Lab Control Sample [111381]		
QC Batch	ICPP 7083			Lab Control Sample Duplicate [111382]		
Matrix	Water					
Parameter		**Check %Recovery**	**Check Dup %Recovery**	**Recovery Limits**	**RPD**	**RPD Limits**
Lead		99.0	99.8	(80-120)	0.8050	(20 MAX)

Client ID	Au Energy		**Samples**	Lab Control Sample [111393]		
QC Batch	GFAP 1452			Lab Control Sample Duplicate [111394]		
Matrix	Water					
Parameter		**Check %Recovery**	**Check Dup %Recovery**	**Recovery Limits**	**RPD**	**RPD Limits**
Organic Lead		105	107	(80-120)	1.9	(20 MAX)

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Sparger Technology, Inc.
Environmental Laboratories

3738 Bradview Drive
Sacramento, CA 95827
Lab: (916) 369-7688
Fax: (916) 369-7689

Profile/COC No: **20932**

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): **Sunny Goyal**	California EDF Report? ☐ Yes ☑ No
Company / Address: **Au Energy** **4185 Albrae Street** **Fremont, CA 94538**	Sampling Company Log Code: NA
Phone #: 510-270-3411 / Fax #: 510-270-3411	Global ID: NA
Project #: / P.O. #: 05201413	PDF/EDF Deliverable To (Email Address): Sunny@vintnersdist.com; johne@vintnersdist.com
Project Name: 1800 Powell Street CWA Sampling	Sampler Signature: RG James / Sampler Name (PRINT): RAY JAMES
Project Address: 1800 Powell	

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: 1-L amber	Container: Tedlar	Container: Other:	Preservative: HCl	Preservative: HNO_3	Preservative: NaOH	Preservative: H_2SO_4	Preservative: Other: 4°C / ICE	Matrix: Water	Matrix: Soil	Matrix: Air	Matrix: Other:	Analysis Request: TPH Gas (EPA 8015M)	Analysis Request: TPH as Diesel (EPA 8015M)	Analysis Request: TPH as Motor Oil (EPA 8015M)	Analysis Request: 5 Oxygenates / BTEX / Naphthalene (EPA 8260B)	Analysis Request: Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	Analysis Request: 7 Oxygenates / BTEX (EPA 8260B)	Analysis Request: Volatile Organics Full List (EPA 8260B)	Analysis Request: Cam 5 (EPA 6010B): Cd, Cr, Pb, Ni, Zn	Analysis Request: Cam 17 (EPA 6010B)	Analysis Request: Cam 17 WET / TCLP (EPA 6010B)	Analysis Request: Organic Lead (LUFT)	Analysis Request: 6010 - Pb	Analysis Request: ETOH	Analysis Request:	Analysis Request:	Analysis Request:
1 TANK PIT Water	5/20/14	11:40	X			X			X				X	X				X	X		X	X						X				
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																

TAT: ☐ 24 hr ☐ 48 hr ☐ 5 DY ☐ 10 DY

For Lab Use Only

Relinquished by:	Date	Time	Received by:	Date	Time
RAY JAMES	5/20/14	16:30		5/20/14	16:30
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Laboratory:	Date	Time

Remarks: ETOH = Ethanol

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Condition
4	TE	5/20/14	16:30	OK

APPENDIX G
DIESEL EXCAVATION GRADING PERMIT AND BACKFILL LETTER

EMERYVILLE BUILDING PERMIT

CITY OF EMERYVILLE, 1333 PARK AVENUE, EMERYVILLE, CA 94608 PHONE (510) 596-4310 FAX (510) 450-7812

Applicant (Contact person): Ken Wendt

Address: P.O. Box 1403

City, State, Zip: Lodi, Ca 95241

Phone: 209-547-9310

Engineer or Architect: MI Architects Inc.

Address: 2860 Camino Ramon Suite 100

City, State, Zip: Walnut Creek, Ca 94597

Phone: 925-287-1174 Lic. No.:

Contractor: Wendt construction

Address: P.O. Box 1403

City, State, Zip: Lodi, Ca 95241

Phone: 209-547-9310 Lic. No. 723360

LICENSED CONTRACTOR'S DECLARATION:
I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

LICENSE CLASS: ABC10 HAZ LIC. NO. 723360

DATE: 6/11/14 CONTRACTOR: Kathy Wendt

OWNER-BUILDER DECLARATION:
I hereby affirm under penalty of perjury that I am exempt from the Contractors' State License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county that requires a permit to construct, alter, improve, demolish, or repair any structure prior to its issuance, also requires the applicant for the permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors' State License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis of the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):
(___) I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractors' State License Law does not apply to an owner of property who builds or improves thereon, and who does the work himself or herself or through his or her own employees provided that the improvements are not offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for the purpose of sale.).
(___) I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors' State License Law does not apply to an owner of a property who builds or improves theron, and who contracts for the projects with a contractor(s) licensed pursuant to the Contractors' State License Law.).
(___) I am exempt under Sec. _____, B & P.C. for this reason:

Date: Owner:

WORKERS' COMPENSATION DECLARATION:
I hereby affirm under penalty of perjury one of the following declarations:
___ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.
___ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:
Carrier: State Fund Policy No: 9072992-13
__ I certify that, in the performance of the work for which this permit I issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that, if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

Date: 6/11/14 Applicant: Kathy Wendt

CONSTRUCTION LENDING AGENCY:
I herby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.).

Lender's Name

Lender's Address

I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and herby authorize representatives of this county to enter upon the above mentioned property for inspection purposes.

Kathy Wendt For AU ENERGY LLC 6/11/14
Signature of Applicant or Agent Date

SITE ADDRESS: 1800 Powell St

Property Owner (if known): AU Energy LLC

Phone: 650-868-7434

Use and Occupancy Group: M+B

Type of Constructions: VB

Identify Description of Work: Excavate Hole
Approx 10'x10'x10' Deep
Backfill & Compact Per Soils Eng.

VALUATION OF PROPOSED WORK: $ 5,000
(Include all labor and materials, all lighting, heating, ventilation, plumbing, electrical, fire sprinklers, elevator equipment, wall finishes, and casework.)

DOCUMENTS SUBMITTED (Circle all that apply):

DRAWINGS	PRODUCT INFORMATION
STRUCTURAL CALCS.	SPECIFICATIONS
ENERGY CALCS.	OTHER Soils Report

THIS PERMIT SHALL COVER (Circle all that apply):

BUILDING	SIGN	FIRE ALARM
PLUMBING	DEMO	FIRE SPRINKLER
ELECTRICAL	GRADING	FIRE (OTHER)
MECHANICAL	SOLAR	OTHER:

Do not write below this line

PERMIT NUMBER: B2014-0002

Assessor's Parcel Number: 0491-4950-0112

Application Received By: Date: 6/11/14

Application Issued By: Date: 6/11/14

APPROVALS:

Building: Date: 6/12/2014

Fire: Date:

Planning: Date:

Environmental: Date:

Public Works: Date:

Police: Date:

Other: Date:

LIMITATIONS OR CONDITIONS:

FEES:

General Plan Maintenance Fee:	25-
Building Standards Admin. Fund (SB 1473):	1-
Technology:	5-
Plan Check:	121.
Energy Plan Check:	
Building:	121.
Plumbing:	
Electrical:	
Mechanical:	
Strong Motion Instrumentation Program:	1.05
Microfiche:	1.21
Fire:	
Sewer Connection:	
Art In Public Places:	
School:	
Other:	
TOTAL:	275.26

AMT #30140

June 11, 2014

Courtney Barrett
Permit Technician/Plan Checker
CITY OF EMERYVILLE BUILDING PERMIT
1333 Park Avenue
Emeryville, CA 94608

Project No. 33113-013181.00

Subject: Description of Diesel Impacted Soil Removal at Shell-Branded Gasoline Station
1800 ½ Powell Street, Emeryville, California, APN 049 -1495-001-12
Case No. RO0000254 and GeoTracker Global ID: T0600101231

Dear Ms. Barrett:

As requested, Bureau Veritas North America, Inc. (BVNA) on behalf of AU Energy, LLC (AU Energy, the responsible party), has prepared this Work Plan detailing soil excavation location, methods and backfilling procedures for the limited excavation adjacent to the excavation pit of the former underground storage tank (UST) at the above-referenced Site. This excavation work is being conducted at the request of the Alameda County Health Care Services Agency (ACHCSA) as part of the current UST removal work. The backfilling and geotechnical work will be conducted under the direction of BAGG Engineers (BAGG) as described in their report entitled *Report Geotechnical Engineering Investigation, Proposed Shell Gas Station, Fueling Canopy, Convenience Store and Car Wash, 1800 Powell Street, Emeryville, California* dated December 2013 (Geotechnical Report, and attached).

SCOPE OF WORK

The purpose of this work is to remove the diesel-impacted soils below the former fiberglass diesel line which was reported to have leaked. This work is being conducted in conjunction with the UST removals and under approval by the ACHCSA. The excavation work will be conducted by NCM Demolition and Remediation under subcontract to Wendt Construction. Confirmation soil testing as part of the UST closure work will be conducted by BVNA. Backfilling work will be conducted by Wendt Construction and testing and oversight will be conducted by their geotechnical subcontractor, BAGG.

The attached figure depicts the location and lateral extent of the excavation. Pacific, Gas and Electric Company (PG&E) has been notified and will be present during the excavation work to ensure that the excavation is not within 5 feet of the PG&E utility lines. Mr. Jerry Wickham with the ACHCSA will be

Bureau Veritas North America, Inc.
Health, Safety, and Environmental Services
2430 Camino Ramon, Suite 122
San Ramon, CA 94583
Main: (925) 426.2600
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www.us.bureauveritas.com

present during the confirmation soil testing for diesel analysis. The excavation will not extend within 10 feet of the sidewalk. As depicted in the attached figure, the lateral width of the excavation will be limited to approximately 5 feet wide and 10 feet long with an estimated depth of 8 to 10 feet. The depth of the excavation may be limited to first encountered fill materials or groundwater once the soils below the former line are removed. The volume of materials which will be disposed of is approximately 20 to 30 cubic yards of soils and fill materials. A 4-to-1 slope will be constructed at the top of the wall or 14 degree angle on the sidewall prior to backfilling.

Backfilling procedures will follow the guidance provided in the attached geotechnical report. The excavation will be backfilled with ¾-inch minus base rock compacted in place and filled to a depth of at least 5 feet below grade and covered in filter fabric. If the soils at the base of the excavation are saturated, prior to backfilling, imported 3" to 5" rock will be placed into the bottom of the excavation followed by the ¾" base rock. The excavation backfill will then be completed with Class II AB clean import fill and compacted in 8 inch lifts to the surface to 90% relative compaction. Geotechnical testing will be conducted by BAGG's field representatives and two levels within the final 5 feet of imported materials to ensure that the compaction methods were adequate.

Utilities & Other Considerations

Shoring for this excavation will not be required or included as no person shall be entering the excavation. PG&E will be present to ensure the protection of their utility lines during this work; no part of the excavation will be within 5 feet of the know line location previously marked out by PG&E. The sidewalk is located beyond the utility line to the south as shown on the attached figure. This excavation will not be within 10 feet of the sidewalk area.

If you have any questions or concerns, please contact us.

Sincerely,

Mark Williams, CAC, PG
Senior Project Manager
Health, Safety and Environmental Services
(925) 426-2676
mark.williams@us.bureauveritas.com

Sophie Lagacé, PE
Environmental Services Manager
Health, Safety and Environmental Services
(925) 426-2607
Sophie.Lagace@us.bureauveritas.com

Attachments: Figure and Geotechnical Report

Figure

Holiday Inn
Hotel Building
1800 Powell

Parking Lot

FRONTAGE ROAD

POWELL STREET

Shell Station
1800 1/2 Powell

Car Wash

Marketeer Building

USTs

Service islands

canopy

trash encl.

Air/ water

planter

parking lot

traffic island

MPD-1 MPD-2 MPD-3 MPD-4 MPD-5 MPD-6 MPD-7 MPD-8 MPD-9 MPD-10

D-5 D-6 D-7 D-9

SB-7 SB-8 SB-9 SB-10 SB-11 SB-12

S-1/A S-2/E S-3/B S-4/C S-5 S-6 S-7 S-8 S-9 S-10 S-11/D S-12 S-13 S-14

BV-1 BV-2 BV-3 BV-4

Approximate Groundwater Flow Direction

0 30
SCALE: feet

Approximate Excavation Boundary

Service Islands

CS-1 CS-2 BV-3

Approximate Location of Diesel Product Line

Damaged Product Line

S-9 S-13

EXPLANATION

- MPD-1 — Soil sample location (9/23/04)
- D-9 — Soil sample location (3/19/98)
- B-1 — Soil boring location (5/20/96)
- SB-7 — Soil boring location (4/18-19/06)
- S-5 — Monitoring well location
- S-6 — Destroyed monitoring well location
- S-1/A — Tank backfill well location
- Soil Boring Location (Bureau Veritas, 9/30/13)
- Proposed Extent of Excavation, Scoped 1:1 to Groundwater
- Soil Sample Location (Bureau Veritas, 10/4/13)
- Electrical line (E)
- Storm drain line (SD)
- Water line (W)
- Gas line (G)
- Telecommunications line (T)
- Storm drain catch basin

REFERENCE: CAMBRIA, "SITE PLAN". DATED 6/2/2006.

PROPOSED AREA OF EXCAVATION	FIGURE
Shell-Branded Service Station 1800 ½ Powell Street Emeryville, California Project No. 33113-013181.00	2

BUREAU VERITAS

APPENDIX H
INTERIM REMOVAL ACTION REPORT

February 19, 2015

Sunny Goyal
Vintners Distributors Inc.
41805 Albrae Street
Fremont, CA 94538

Mr. Jerry Wickham
ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Interim Removal Action Report
1800 ½ Powell Street, Emeryville, California, APN 049 -1495-001-12
Case No. RO0000254; GeoTracker Global ID: T0600101231

Dear Mr. Wickham:

Au Energy, LLC (Au Energy, the *responsible party*), is submitting the enclosed report summarizing the excavation work around the former diesel line leak. This report was prepared by Bureau Veritas North America, Inc. (BVNA) on behalf of AU Energy, LLC.

I declare, under penalty of perjury, that the information contained in the attached enclosed Work Plan is true and correct to the best of my knowledge. If you have any comments or questions regarding this report, please do not hesitate to contact Mark Williams or John Werfal of BVNA. Their contact information is provided in the Work Plan.

Sincerely,

Sunny Goyal
Au Energy Director

February 19, 2015

Mr. Sunny Goyal
AU ENERGY
41805 Albrae Street, 2nd Floor
Fremont, California 94538

Project No. 33113-013181.00

Subject: *Interim Removal Action Report*
1800 ½ Powell Street
Emeryville, Alameda County, California

Dear Mr. Goyal:

Bureau Veritas North America, Inc. is pleased to present this report summarizing the excavation efforts around the former diesel line leak at the above-referenced property.

If you have any questions or comments regarding the information provided herein, please do not hesitate to contact me.

Sincerely,

Mark Williams, PG
Senior Project Geologist
Health, Safety and Environmental Services
mark.williams@us.bureauveritas.com
(925) 426-2676

Enclosure

Interim Removal Action Report

Shell-Branded Station
1800 ½ Powell Street
Emeryville, Alameda County, California

February 19, 2015
Project No. 33114-013181.00

Prepared for
AU ENERGY
41805 Albrae Street, 2nd Floor
Fremont, California

For the benefit of business and people

Bureau Veritas North America, Inc.
2430 Camino Ramon, Suite 122
San Ramon, California 94583
925.426.2600
www.us.bureauveritas.com

CONTENTS

Section **Page**

1.0 INTRODUCTION 1

2.0 SCOPE OF WORK 1

2.1 PRE-FIELD ACTIVITIES 1
2.2 FIELD ACTIVITIES 1
2.2.1 Excavation Activities 1
2.2.2 Soil Confirmation Sampling 2

3.0 LABORATORY ANALYSES 2

4.0 FINDINGS 3

4.1 SOIL ANALYTICAL RESULTS 3
4.2 QUALITY ASSURANCE/QUALITY CONTROL 3

5.0 DISCUSSION AND RECOMMENDATIONS 3

6.0 SIGNATURES 4

Tables

1 Summary of Soil Analytical Results

Figures

1 Property Location
2 Site Plan and Diesel Line Excavation Area

Appendices

A Laboratory Analytical Results and Chain of Custody Documents

1.0 INTRODUCTION

Bureau Veritas North America, Inc. (BVNA) is pleased to present this Interim Removal Action Report for the above-referenced property (the "Site," Figures 1 and 2).

In 2013, BVNA was retained to collect soil samples for initial waste characterization prior to the planned redevelopment activities. During that work, a subsurface fiberglass diesel fuel product line was apparently damaged. Up to approximately 3 inches of separate phase hydrocarbon (SPH) was measured in two of the underground storage tank (UST) backfill observation wells (S-2/E, S-3/B) following the line damage, and was removed utilizing a vacuum truck. Approximately 5,000 gallons of water/SPH mixture were removed for offsite disposal.

In May through June 2014, three gasoline USTs, and one diesel UST were removed from the site as well as impacted soil, fill materials and pea gravel around the former USTs. The removal of these USTs is documented in a report entitled *Underground Storage Tank Removal Report* dated August 11, 2014, and prepared by Sparger Technology Inc. The extent of excavated soils, fill materials, and pea gravel fill around the former USTs ranged from at least 45 feet by 65 feet long to 12 feet in depth.

2.0 SCOPE OF WORK

The proposed extent of excavation presented in the May 19, 2014 diesel line excavation workplan was anticipated to be at least 20 feet by 25 feet laterally. A response from the Alameda County Health Care Services Agency (ACHCSA) dated May 20, 2014, stated that the line leakage may have impacted a larger area than proposed, and requested that the excavation be expanded to remove observed diesel contamination where feasible. This scope of work was conducted using the expanded excavation of visibly impacted material approach as guidance.

2.1 PRE-FIELD ACTIVITIES

Prior to the excavation of the soils, the former dispenser island areas and diesel line path to the UST excavation was survey and located in the field using white marking paint. Notifications were placed to the ACHCA prior to conducting the soils removal work and in anticipation of the soil confirmation sampling.

2.2 FIELD ACTIVITIES

The following is a summary of the field activities.

2.2.1 Excavation Activities

On June 20 - 26, 2014, NCM/LVI Services under contract with Wendt Construction performed the excavation work using a long reach excavator, and directly loaded the diesel impacted soil and fill materials into lined -trucks for disposal at Forward Landfill in Manteca California.

Subsurface materials encountered during this excavation work included silty clays to clays mixed with a significant amount of fill materials and debris. This debris included roofing materials, shingles, insulation, wood, brick debris, glass, gravel, and trash debris. During the excavation, the impacted gravel fill in the

former diesel line trench was observed and excavated as well as the visibly diesel- impacted fill materials. Soils were removed laterally and vertically to a point where there was no visible diesel fuel impact in the sidewalls or base of the excavation.

Soils and fill materials were removed in a westerly direction from the former diesel line break to a point where no visible impact was observed. This included soils below both former dispenser islands locations. Soils to the south were removed to the extent possible. The lateral direction of this side of the excavation was constrained by the nearby Pacific, Gas and Electric utility line. However, at the edge of this side of the excavation, little to no visible diesel impact was observed. Soils to the north were removed to a point where little to no diesel impact was observed in the remaining soil/fill materials. Soils to the east were removed laterally to the point of contact with the west side of the former UST excavation area which was previously excavated, but had been backfilled at that point.

The depth of the excavation ranged from 5 to 6 feet deep. Roofing materials which included tar shingles and tar paper were encountered throughout the excavation, but did not appear impacted with diesel fuel at the base of the excavation below 5 to 6 feet in depth. The fill materials which appeared impacted with by the diesel release were removed above this depth. Based on the UST removal work conducted on the site, these fill materials extended to depths of 10 to 12 feet in the area of the former USTs. No base samples were collected in the diesel line excavation area, since the materials at the base of the excavation consisted primarily of roof shingles and tar paper debris and likely extended to depths of at least 12 feet. Furthermore, these fill materials did not appear impacted with diesel fuel unlike the materials which were removed at shallower depths.

The lateral extent of excavation ranged from 10 to 12 feet wide, and 40 to 50 feet long. Figure 2 depicts the location and graphical extent of the diesel line excavation. The red lined area presents a depiction of the excavation by June 23, 2014. Based on the sample results, the excavation was further widened on the north, west, southwest and east sides. On June 26, 2014, two additional confirmation samples were collected to represent the remaining soils at the edges of the excavation. This additional excavated area is noted as a blue line on Figure 2 which shows the expanded areas from the first excavated area.

2.2.2 Soil Confirmation Sampling

On June 23, 2014 under the direction of the ACHCA, four soil confirmation samples were collected from the sides of the excavation. Based on the data, additional soils were excavated as noted above, and two additional confirmation samples were then collected on June 26, 2014. The soil sample analytical results are summarized in Table 1.

3.0 LABORATORY ANALYSES

The soil samples were submitted to a State-certified laboratory for chemical analysis by the following United States Environmental Protection Agency (USEPA) Methods as required by ACHCA:

- TPH as gasoline (TPH-g), BTEX, EDB, EDC, MTBE, TAME, ETBE, DIPE, TBA and EtOH by Method 8260B
- TPH-diesel and TPH as motor oil (TPH-d & TPH-mo) by Method 8015M

- Naphthalene by Method 8270

4.0 FINDINGS

BVNA evaluated the data generated during this investigation. Our findings are summarized in the following subsections.

4.1 SOIL ANALYTICAL RESULTS

A summary of soil analytical results is provided in Table 1. Copies of the soil analytical laboratory reports are presented in Appendix B. Areas represented by the confirmation samples DE-1N, DE-1E, and DE-1W were further excavated after the sample results were available. Once the additional excavation work was completed, two confirmation samples were collected: DE-2E and DE-2W. It should be noted that the area north of DE-1N were further excavated and that the remaining soils on the north side of the excavation were visibly similar to the soils which were represented by DE-2W.

Soil analytical data were compared to the Environmental Screening Levels (ESLs) which were established by the RWQCB – San Francisco Region, Table A – Shallow Soils for commercial uses, December 2013. The analyzed constituents detected in DE-1S, DE-2W and DE-2E are summarized as follows:

- TPH-d concentrations in the second confirmation samples ranged from 110 to 460 milligrams per kilogram (mg/kg).
- TPH-mo concentrations in these two samples ranged from 170 to 1,300 mg/kg.
- Napthalene ranged from below the detection limit to 2.3 mg/kg.
- Detected VOC concentrations were xylenes which ranged from below the detection limit to 14 micrograms per kilogram (ug/kg).

4.2 QUALITY ASSURANCE/QUALITY CONTROL

The analytical laboratory data was reviewed by BVNA to establish its validity and to ensure the laboratory data was complete and accurate. A review of the data validation process indicates that the laboratories completed the QA/QC activities required for the samples such as lab control samples, matrix spikes, and duplicates. No significant QA/QC issues were identified, as noted in the laboratory reports presented in Appendices C and D. The QA/QC parameters for the samples were within acceptable limits and suggest that the data is useful for its intended purpose.

5.0 DISCUSSION AND RECOMMENDATIONS

By the late 1950s, the area of the subject property had been filled in with soil, industrial waste, and construction debris by the Paraffine Company, who operated an industrial complex along the Emeryville waterfront from around 1884 until the late 1960s. The subject property remained vacant and appeared to be used for dumping until around 1970, when it was developed with a gasoline station. The placement of

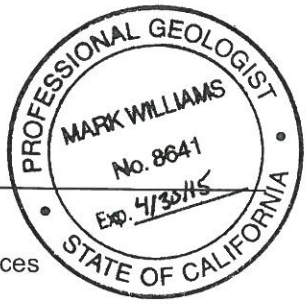
fill consisting of industrial waste and construction debris on the subject property in the late 1950s, and various fill materials identified as roofing material were visible in the excavated areas.

The soil and fill impacted by the diesel release were excavated and removed from the site. The extent of the excavation was significantly larger than what was proposed in the May 2014 workplan. Final confirmation samples contained remarkably less naphthalene, VOCs, and diesel range hydrocarbons than previously collected samples in the diesel impacted areas. Fill materials encountered during excavation of the diesel release area as well as the UST replacement included large quantities of brick and glass debris, asphalt shingles, tar paper, trash, building and roofing insulation, and wood debris. Residual concentrations of TPH-d and TPH-mo in the final confirmation samples appear to be largely attributable to the historical industrial waste debris present beneath the site and surrounding area.

No further action appears warranted with respect to the diesel line release.

6.0 SIGNATURES

This report prepared by:



Mark Williams, P.G..
Senior Project Geologist
Health, Safety and Environmental Services
San Francisco Regional Office

This report reviewed by:

John Werfal
Regional Director
Health, Safety and Environmental Services
San Francisco Regional Office

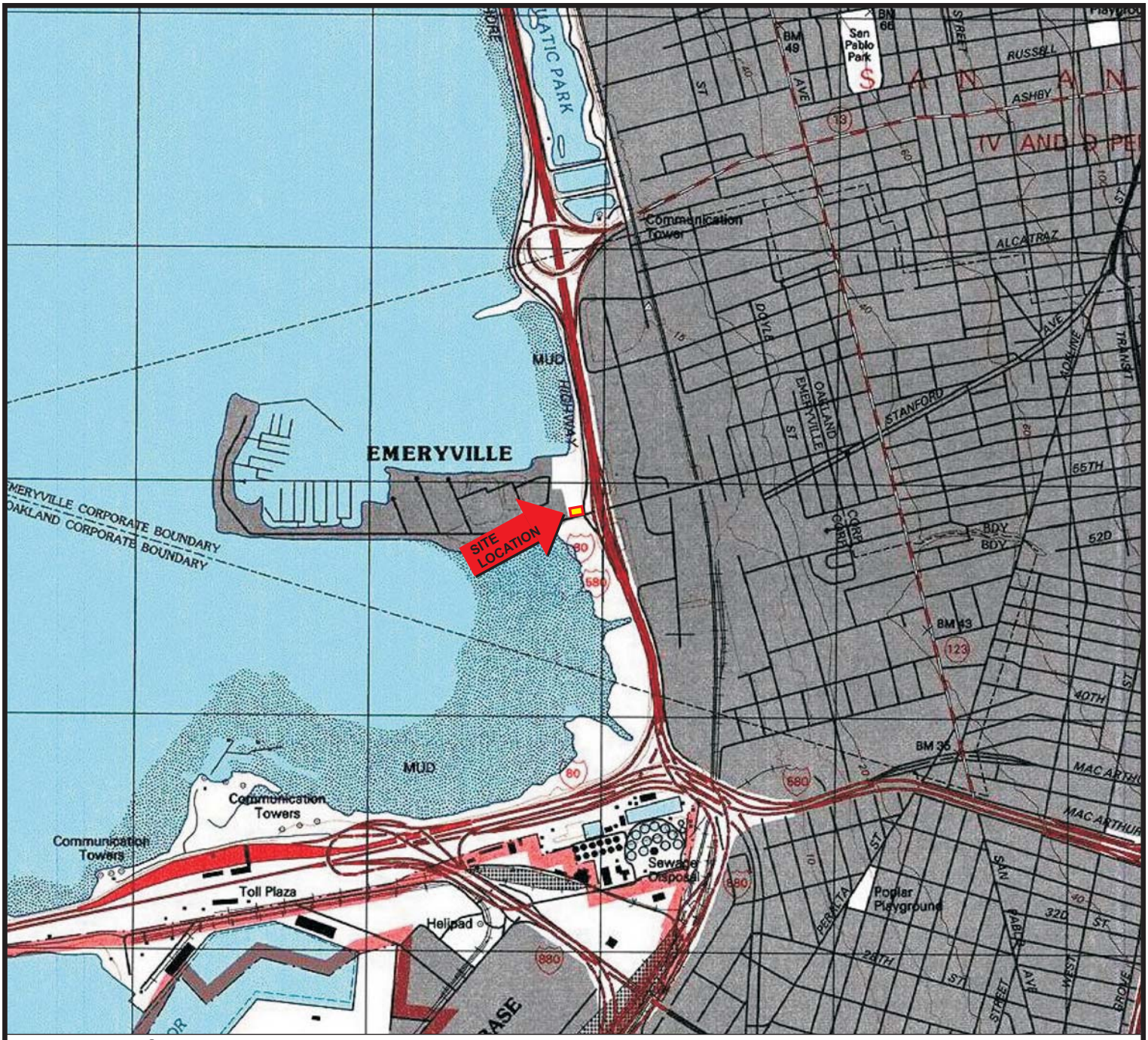
TABLE

TABLE 1
Diesel Line Excavation
Soil Analytical Results-TPH and VOCs
1800 1/2 Powell Street
Emeryville, California

	Sample Identification	DE-1-N	DE-1-S	DE-1-E	DE-2E	DE-1-W	DE-2-W	RWQCB ESL - Commercial
		excavated		excavated		excavated		
	Sample Date	6/23/2014	6/23/2014	6/23/2014	6/26/2014	6/23/2014	6/26/2014	
VOCs (µg/kg)	Benzene	**1,800**	<4.9	<5	<4.8	<460	<4.9	44
	Toluene	**7,200**	<4.9	<5	<4.8	**1,100**	<4.9	2,900
	Ethylbenzene	**16,000**	<4.9	<5	<4.8	**7,400**	<4.9	3,300
	Total Xylenes	**92,000**	**14**	**23**	<9.6	**48,000**	**10**	2,300
	Ethanol	<440	<980	<1,000	<960	<46,000	<970	--
	Methyl Tert-Butyl Ether (MTBE)	<440	<4.9	<5	<4.8	<460	<4.9	23
	Tert-Amyl Methyl Ether (TAME)	<440	<4.9	<5	<4.8	<460	<4.9	--
	Ethyl Tert-Butyl Ether (ETBE)	<440	<4.9	<5	<4.8	<460	<4.9	--
	Ethylene Dibromide (EDB)	<440	<4.9	<5	<4.8	<460	<4.9	--
	Ethylene Dichloride (EDC)	<440	<4.9	<5	<4.8	<460	<4.9	--
	Tert-Butyl Alcohol (TBA)	<870	<98	<100	<4.8	<930	<4.9	75
	Diisopropyl Ether (DIPE)	<440	<4.9	<5	<4.8	<460	<4.9	--
Naphthalene (mg/kg)		**12**	**2.3**	**0.26**	<0.13	**12**	<1.3	1.2
Diesel Range Organics (DRO) (mg/kg)		**740**	**110**	**1,200**	**150**	**800**	**460**	110
Motor Oill Range Organics (MRO) (mg/kg)		<250	**170**	**2,100**	**350**	**420**	**1,300**	500

Notes:
Volatile organic compounds (VOC) samples reported in micrograms per kilogram (µg/Kg)
Diesel Range Organics (DRO) samples reported in milligrams per kilogram (mg/Kg)
Motor Oil Range Organics (MRO) samples reported in milligrams per kilogram (mg/Kg)
<4,800 = not detected above analytical laboratory reporting limit (elevated reporting limits due to dillution)
RWQCB ESL = Regional Water Quality Control Board Environmental Screening Level for Commercial land use (RWQCB, Table A-1, December 2013).
DRO analyzed by EPA Method 8015B
VOCs analyzed by EPA Method 8260
SVOC Napthalene analyzed by EPA Method 8270
Bolded values denote concentrations detected above laboratory reporting limits and above ESL
-- = Not Established

FIGURES



Source: TOPO! © 2000 National Geographic Holdings

Note: Location Information is Approximate

1 0 1/2 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

Portion of the 7.5-Minute Series, Oakland West, California
Quadrangle Topographic Map (Datum: NAD 83)
United States Department of the Interior
Geological Survey
1997 Photorevised from 1993

N

CALIF

QUADRANGLE LOCATION

SITE LOCATION MAP	FIGURE
1800 ½ Powell Street Emeryville, California	1

BUREAU VERITAS

Holiday Inn
Hotel Building
1800 Powell

Parking Lot

FRONTAGE ROAD

Shell Station
1800 1/2 Powell

POWELL STREET

parking lot

planter

trash encl.

Car Wash

Air/ water

Marketeer Building

Service islands

canopy

USTs

MPD-1 MPD-2 MPD-3 MPD-4 MPD-5 MPD-6 MPD-7 MPD-8 MPD-9 MPD-10

D-5 D-6 D-7 D-9

SB-7 SB-8 SB-9 SB-10 SB-11 SB-12

S-1/A S-2/E S-3/B S-4/C S-5 S-6 S-7 S-8 S-9 S-10 S-11/D S-12 S-13 S-14

BV-1 BV-2 BV-3 BV-4

Approximate Groundwater Flow Direction

traffic island

0 30
SCALE: feet

Approximate Excavation Boundary

DE-1-N DE-1-E DE-1-S DE-1-W DE-2-E DE-2-W

CS-1 CS-2

Approximate Location of Diesel Product Line

Damaged Product Line

EXPLANATION

- MPD-1 — Soil sample location (9/23/04)
- D-9 — Soil sample location (3/19/98)
- B-1 — Soil boring location (5/20/96)
- SB-7 — Soil boring location (4/18-19/06)
- S-5 — Monitoring well location
- S-6 — Destroyed monitoring well location
- S-1/A — Tank backfill well location
- Soil Boring Location (Bureau Veritas, 9/30/13)
- Proposed Extent of Excavation, Scoped 1:1 to Groundwater
- Soil Sample Location (Bureau Veritas, 10/4/13)
- Electrical line (E)
- Storm drain line (SD)
- Water line (W)
- Gas line (G)
- Telecommunications line (T)
- Storm drain catch basin
- June 23, 2014 Sample - DE-1-S
- June 26, 2014 Sample - DE-2-S

REFERENCE: CAMBRIA, "SITE PLAN". DATED 6/2/2006.

PROPOSED AREA OF EXCAVATION	FIGURE
Shell-Branded Service Station 1800 ½ Powell Street Emeryville, California Project No. 33113-013181.00	2

BUREAU VERITAS

APPENDIX A

LABORATORY ANALYTICAL DATA SHEETS AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

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

TestAmerica Job ID: 720-58215-1
Client Project/Site: Au Energy - 1800 Powell

For:
Bureau Veritas North America, Inc.
Bishop Ranch 6
2430 Camino Ramon Suite 122
San Ramon, California 94583

Attn: Mark Williams

Authorized for release by:
6/24/2014 3:09:50 PM

Micah Smith, Project Manager II
(925)484-1919
micah.smith@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
QC Sample Results 10
QC Association Summary 17
Lab Chronicle 19
Certification Summary 21
Method Summary 22
Sample Summary 23
Chain of Custody 24
Receipt Checklists 25

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

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

Glossary

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

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58215-1

Job ID: 720-58215-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-58215-1

Comments
No additional comments.

Receipt
The samples were received on 6/23/2014 10:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 9.7° C.

GC/MS VOA
Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample: DE-1-S (720-58215-4). The sample shows evidence of matrix interference.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270C: Surrogate recovery for the following sample(s) was outside control limits: DE-1-W (720-58215-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8015B: The following sample(s) required a dilution due to the nature of the sample matrix: DE-1-E (720-58215-2), DE-1-N (720-58215-3), DE-1-W (720-58215-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58215-1

Client Sample ID: DE-1-W — Lab Sample ID: 720-58215-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	7400		460		ug/Kg	100		8260B	Total/NA
Toluene	1100		460		ug/Kg	100		8260B	Total/NA
Xylenes, Total	48000		930		ug/Kg	100		8260B	Total/NA
Naphthalene	12		0.27		mg/Kg	2		8270C	Total/NA
Diesel Range Organics [C10-C28]	800		4.9		mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	420		250		mg/Kg	5		8015B	Total/NA

Client Sample ID: DE-1-E — Lab Sample ID: 720-58215-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	23		10		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	0.26		0.26		mg/Kg	2		8270C	Total/NA
Diesel Range Organics [C10-C28]	1200		20		mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	2100		1000		mg/Kg	20		8015B	Total/NA

Client Sample ID: DE-1-N — Lab Sample ID: 720-58215-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1800		440		ug/Kg	100		8260B	Total/NA
Ethylbenzene	16000		4400		ug/Kg	1000		8260B	Total/NA
Toluene	7200		440		ug/Kg	100		8260B	Total/NA
Xylenes, Total	92000		8700		ug/Kg	1000		8260B	Total/NA
Naphthalene	12		0.26		mg/Kg	2		8270C	Total/NA
Diesel Range Organics [C10-C28]	740		4.9		mg/Kg	5		8015B	Total/NA

Client Sample ID: DE-1-S — Lab Sample ID: 720-58215-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	14		9.8		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Naphthalene	2.3		0.27		mg/Kg	2		8270C	Total/NA
Diesel Range Organics [C10-C28]	110		2.0		mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	170		99		mg/Kg	2		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58215-1

Client Sample ID: DE-1-W
Date Collected: 06/23/14 09:00
Date Received: 06/23/14 10:35

Lab Sample ID: 720-58215-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		460		ug/Kg		06/24/14 09:00	06/24/14 11:51	100
Ethylbenzene	**7400**		460		ug/Kg		06/24/14 09:00	06/24/14 12:51	100
Ethanol	ND	*	46000		ug/Kg		06/24/14 09:00	06/24/14 11:51	100
MTBE	ND		460		ug/Kg		06/24/14 09:00	06/24/14 11:51	100
TAME	ND		460		ug/Kg		06/24/14 09:00	06/24/14 11:51	100
Ethyl tert-butyl ether	ND		460		ug/Kg		06/24/14 09:00	06/24/14 11:51	100
Toluene	**1100**		460		ug/Kg		06/24/14 09:00	06/24/14 11:51	100
EDB	ND		460		ug/Kg		06/24/14 09:00	06/24/14 11:51	100
Xylenes, Total	**48000**		930		ug/Kg		06/24/14 09:00	06/24/14 12:51	100
EDC	ND		460		ug/Kg		06/24/14 09:00	06/24/14 11:51	100
TBA	ND	*	930		ug/Kg		06/24/14 09:00	06/24/14 11:51	100
DIPE	ND		460		ug/Kg		06/24/14 09:00	06/24/14 11:51	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*109*		*66 - 148*	*06/24/14 09:00*	*06/24/14 11:51*	*100*
4-Bromofluorobenzene	*112*		*66 - 148*	*06/24/14 09:00*	*06/24/14 12:51*	*100*
1,2-Dichloroethane-d4 (Surr)	*103*		*62 - 137*	*06/24/14 09:00*	*06/24/14 11:51*	*100*
1,2-Dichloroethane-d4 (Surr)	*102*		*62 - 137*	*06/24/14 09:00*	*06/24/14 12:51*	*100*
Toluene-d8 (Surr)	*97*		*65 - 141*	*06/24/14 09:00*	*06/24/14 11:51*	*100*
Toluene-d8 (Surr)	*97*		*65 - 141*	*06/24/14 09:00*	*06/24/14 12:51*	*100*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**12**		0.27		mg/Kg		06/23/14 10:52	06/24/14 02:29	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*101*	*X*	*21 - 98*	*06/23/14 10:52*	*06/24/14 02:29*	*2*
2-Fluorobiphenyl	*78*		*30 - 112*	*06/23/14 10:52*	*06/24/14 02:29*	*2*
Terphenyl-d14	*89*		*32 - 117*	*06/23/14 10:52*	*06/24/14 02:29*	*2*
2-Fluorophenol	*96*		*28 - 98*	*06/23/14 10:52*	*06/24/14 02:29*	*2*
Phenol-d5	*81*		*23 - 101*	*06/23/14 10:52*	*06/24/14 02:29*	*2*
2,4,6-Tribromophenol	*95*		*37 - 114*	*06/23/14 10:52*	*06/24/14 02:29*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**800**		4.9		mg/Kg		06/23/14 16:34	06/23/14 18:58	5
Motor Oil Range Organics [C24-C36]	**420**		250		mg/Kg		06/23/14 16:34	06/23/14 18:58	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*06/23/14 16:34*	*06/23/14 18:58*	*5*

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58215-1

Client Sample ID: DE-1-E
Date Collected: 06/23/14 09:05
Date Received: 06/23/14 10:35

Lab Sample ID: 720-58215-2
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		5.0		ug/Kg		06/23/14 18:43	06/23/14 21:14	1
Benzene	ND		5.0		ug/Kg		06/23/14 18:43	06/23/14 21:14	1
EDB	ND		5.0		ug/Kg		06/23/14 18:43	06/23/14 21:14	1
EDC	ND		5.0		ug/Kg		06/23/14 18:43	06/23/14 21:14	1
Ethylbenzene	ND		5.0		ug/Kg		06/23/14 18:43	06/23/14 21:14	1
Toluene	ND		5.0		ug/Kg		06/23/14 18:43	06/23/14 21:14	1
Xylenes, Total	**23**		10		ug/Kg		06/23/14 18:43	06/23/14 21:14	1
TBA	ND		100		ug/Kg		06/23/14 18:43	06/23/14 21:14	1
Ethanol	ND		1000		ug/Kg		06/23/14 18:43	06/23/14 21:14	1
DIPE	ND		5.0		ug/Kg		06/23/14 18:43	06/23/14 21:14	1
TAME	ND		5.0		ug/Kg		06/23/14 18:43	06/23/14 21:14	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/Kg		06/23/14 18:43	06/23/14 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*45 - 131*	*06/23/14 18:43*	*06/23/14 21:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*119*		*60 - 140*	*06/23/14 18:43*	*06/23/14 21:14*	*1*
Toluene-d8 (Surr)	*77*		*58 - 140*	*06/23/14 18:43*	*06/23/14 21:14*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.26**		0.26		mg/Kg		06/23/14 10:52	06/24/14 02:53	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*80*		*21 - 98*	*06/23/14 10:52*	*06/24/14 02:53*	*2*
2-Fluorobiphenyl	*77*		*30 - 112*	*06/23/14 10:52*	*06/24/14 02:53*	*2*
Terphenyl-d14	*91*		*32 - 117*	*06/23/14 10:52*	*06/24/14 02:53*	*2*
2-Fluorophenol	*85*		*28 - 98*	*06/23/14 10:52*	*06/24/14 02:53*	*2*
Phenol-d5	*75*		*23 - 101*	*06/23/14 10:52*	*06/24/14 02:53*	*2*
2,4,6-Tribromophenol	*92*		*37 - 114*	*06/23/14 10:52*	*06/24/14 02:53*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**1200**		20		mg/Kg		06/23/14 16:34	06/23/14 19:22	20
Motor Oil Range Organics [C24-C36]	**2100**		1000		mg/Kg		06/23/14 16:34	06/23/14 19:22	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*06/23/14 16:34*	*06/23/14 19:22*	*20*

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58215-1

Client Sample ID: DE-1-N
Date Collected: 06/23/14 09:10
Date Received: 06/23/14 10:35

Lab Sample ID: 720-58215-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1800**		440		ug/Kg		06/24/14 09:00	06/24/14 11:22	100
Ethylbenzene	**16000**		4400		ug/Kg		06/24/14 09:00	06/24/14 12:20	1000
Ethanol	ND	*	44000		ug/Kg		06/24/14 09:00	06/24/14 11:22	100
MTBE	ND		440		ug/Kg		06/24/14 09:00	06/24/14 11:22	100
TAME	ND		440		ug/Kg		06/24/14 09:00	06/24/14 11:22	100
Ethyl tert-butyl ether	ND		440		ug/Kg		06/24/14 09:00	06/24/14 11:22	100
Toluene	**7200**		440		ug/Kg		06/24/14 09:00	06/24/14 11:22	100
EDB	ND		440		ug/Kg		06/24/14 09:00	06/24/14 11:22	100
Xylenes, Total	**92000**		8700		ug/Kg		06/24/14 09:00	06/24/14 12:20	1000
EDC	ND		440		ug/Kg		06/24/14 09:00	06/24/14 11:22	100
TBA	ND	*	870		ug/Kg		06/24/14 09:00	06/24/14 11:22	100
DIPE	ND		440		ug/Kg		06/24/14 09:00	06/24/14 11:22	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*66 - 148*	*06/24/14 09:00*	*06/24/14 11:22*	*100*
4-Bromofluorobenzene	*103*		*66 - 148*	*06/24/14 09:00*	*06/24/14 12:20*	*1000*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*	*06/24/14 09:00*	*06/24/14 11:22*	*100*
1,2-Dichloroethane-d4 (Surr)	*99*		*62 - 137*	*06/24/14 09:00*	*06/24/14 12:20*	*1000*
Toluene-d8 (Surr)	*97*		*65 - 141*	*06/24/14 09:00*	*06/24/14 11:22*	*100*
Toluene-d8 (Surr)	*97*		*65 - 141*	*06/24/14 09:00*	*06/24/14 12:20*	*1000*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**12**		0.26		mg/Kg		06/23/14 10:52	06/24/14 03:17	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*84*		*21 - 98*	*06/23/14 10:52*	*06/24/14 03:17*	*2*
2-Fluorobiphenyl	*76*		*30 - 112*	*06/23/14 10:52*	*06/24/14 03:17*	*2*
Terphenyl-d14	*88*		*32 - 117*	*06/23/14 10:52*	*06/24/14 03:17*	*2*
2-Fluorophenol	*95*		*28 - 98*	*06/23/14 10:52*	*06/24/14 03:17*	*2*
Phenol-d5	*77*		*23 - 101*	*06/23/14 10:52*	*06/24/14 03:17*	*2*
2,4,6-Tribromophenol	*86*		*37 - 114*	*06/23/14 10:52*	*06/24/14 03:17*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**740**		4.9		mg/Kg		06/23/14 16:34	06/23/14 18:33	5
Motor Oil Range Organics [C24-C36]	ND		250		mg/Kg		06/23/14 16:34	06/23/14 18:33	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*06/23/14 16:34*	*06/23/14 18:33*	*5*

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58215-1

Client Sample ID: DE-1-S
Date Collected: 06/23/14 09:15
Date Received: 06/23/14 10:35

Lab Sample ID: 720-58215-4
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.9		ug/Kg		06/24/14 09:00	06/24/14 11:51	1
Benzene	ND		4.9		ug/Kg		06/24/14 09:00	06/24/14 11:51	1
EDB	ND		4.9		ug/Kg		06/24/14 09:00	06/24/14 11:51	1
EDC	ND		4.9		ug/Kg		06/24/14 09:00	06/24/14 11:51	1
Ethylbenzene	ND	*	4.9		ug/Kg		06/24/14 09:00	06/24/14 11:51	1
Toluene	ND	*	4.9		ug/Kg		06/24/14 09:00	06/24/14 11:51	1
Xylenes, Total	**14**		9.8		ug/Kg		06/24/14 09:00	06/24/14 11:51	1
TBA	ND		98		ug/Kg		06/24/14 09:00	06/24/14 11:51	1
Ethanol	ND		980		ug/Kg		06/24/14 09:00	06/24/14 11:51	1
DIPE	ND		4.9		ug/Kg		06/24/14 09:00	06/24/14 11:51	1
TAME	ND		4.9		ug/Kg		06/24/14 09:00	06/24/14 11:51	1
Ethyl-t-butyl ether (ETBE)	ND		4.9		ug/Kg		06/24/14 09:00	06/24/14 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*164*	*X *	*45 - 131*	*06/24/14 09:00*	*06/24/14 11:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*	*06/24/14 09:00*	*06/24/14 11:51*	*1*
Toluene-d8 (Surr)	*49*	*X*	*58 - 140*	*06/24/14 09:00*	*06/24/14 11:51*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**2.3**		0.27		mg/Kg		06/23/14 10:52	06/24/14 03:41	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*87*		*21 - 98*	*06/23/14 10:52*	*06/24/14 03:41*	*2*
2-Fluorobiphenyl	*88*		*30 - 112*	*06/23/14 10:52*	*06/24/14 03:41*	*2*
Terphenyl-d14	*95*		*32 - 117*	*06/23/14 10:52*	*06/24/14 03:41*	*2*
2-Fluorophenol	*89*		*28 - 98*	*06/23/14 10:52*	*06/24/14 03:41*	*2*
Phenol-d5	*81*		*23 - 101*	*06/23/14 10:52*	*06/24/14 03:41*	*2*
2,4,6-Tribromophenol	*92*		*37 - 114*	*06/23/14 10:52*	*06/24/14 03:41*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**110**		2.0		mg/Kg		06/23/14 16:34	06/23/14 18:09	2
Motor Oil Range Organics [C24-C36]	**170**		99		mg/Kg		06/23/14 16:34	06/23/14 18:09	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*77*		*40 - 130*	*06/23/14 16:34*	*06/23/14 18:09*	*2*

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58215-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-161742/4
Matrix: Solid
Analysis Batch: 161742

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		500		ug/Kg			06/24/14 09:00	100
Ethylbenzene	ND		500		ug/Kg			06/24/14 09:00	100
MTBE	ND		500		ug/Kg			06/24/14 09:00	100
Toluene	ND		500		ug/Kg			06/24/14 09:00	100
EDB	ND		500		ug/Kg			06/24/14 09:00	100
Xylenes, Total	ND		1000		ug/Kg			06/24/14 09:00	100
EDC	ND		500		ug/Kg			06/24/14 09:00	100
TBA	ND		1000		ug/Kg			06/24/14 09:00	100
Ethanol	ND		50000		ug/Kg			06/24/14 09:00	100
DIPE	ND		500		ug/Kg			06/24/14 09:00	100
TAME	ND		500		ug/Kg			06/24/14 09:00	100
Ethyl tert-butyl ether	ND		500		ug/Kg			06/24/14 09:00	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*66 - 148*		*06/24/14 09:00*	*100*
1,2-Dichloroethane-d4 (Surr)	*96*		*62 - 137*		*06/24/14 09:00*	*100*
Toluene-d8 (Surr)	*99*		*65 - 141*		*06/24/14 09:00*	*100*

Lab Sample ID: LCS 720-161742/5
Matrix: Solid
Analysis Batch: 161742

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5000	4650		ug/Kg		93	76 - 122
Ethylbenzene	5000	4660		ug/Kg		93	76 - 137
MTBE	5000	4600		ug/Kg		92	71 - 146
m-Xylene & p-Xylene	5000	4900		ug/Kg		98	71 - 142
Toluene	5000	4630		ug/Kg		93	77 - 120
EDB	5000	4900		ug/Kg		98	70 - 138
EDC	5000	4580		ug/Kg		92	67 - 126
TBA	50000	58000		ug/Kg		116	70 - 130
Ethanol	250000	263000		ug/Kg		105	70 - 130
DIPE	5000	4230		ug/Kg		85	70 - 130
TAME	5000	5120		ug/Kg		102	70 - 130
Ethyl tert-butyl ether	5000	4570		ug/Kg		91	70 - 130
o-Xylene	5000	4930		ug/Kg		99	71 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*66 - 148*
1,2-Dichloroethane-d4 (Surr)	*92*		*62 - 137*
Toluene-d8 (Surr)	*98*		*65 - 141*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-161742/6
Matrix: Solid
Analysis Batch: 161742

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5000	4650		ug/Kg		93	76 - 122	0	20
Ethylbenzene	5000	4630		ug/Kg		93	76 - 137	1	20
MTBE	5000	4830		ug/Kg		97	71 - 146	5	20
m-Xylene & p-Xylene	5000	4870		ug/Kg		97	71 - 142	0	20
Toluene	5000	4620		ug/Kg		92	77 - 120	0	20
EDB	5000	5080		ug/Kg		102	70 - 138	4	20
EDC	5000	4730		ug/Kg		95	67 - 126	3	20
TBA	50000	45000	*	ug/Kg		90	70 - 130	25	20
Ethanol	250000	192000	*	ug/Kg		77	70 - 130	31	20
DIPE	5000	4440		ug/Kg		89	70 - 130	5	20
TAME	5000	5320		ug/Kg		106	70 - 130	4	20
Ethyl tert-butyl ether	5000	4800		ug/Kg		96	70 - 130	5	20
o-Xylene	5000	4960		ug/Kg		99	71 - 142	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*66 - 148*
1,2-Dichloroethane-d4 (Surr)	*95*		*62 - 137*
Toluene-d8 (Surr)	*99*		*65 - 141*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-161700/5
Matrix: Solid
Analysis Batch: 161700

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			06/23/14 18:16	1
Ethylbenzene	ND		5.0		ug/Kg			06/23/14 18:16	1
MTBE	ND		5.0		ug/Kg			06/23/14 18:16	1
Toluene	ND		5.0		ug/Kg			06/23/14 18:16	1
EDB	ND		5.0		ug/Kg			06/23/14 18:16	1
Xylenes, Total	ND		10		ug/Kg			06/23/14 18:16	1
EDC	ND		5.0		ug/Kg			06/23/14 18:16	1
TBA	ND		100		ug/Kg			06/23/14 18:16	1
Ethanol	ND		1000		ug/Kg			06/23/14 18:16	1
DIPE	ND		5.0		ug/Kg			06/23/14 18:16	1
TAME	ND		5.0		ug/Kg			06/23/14 18:16	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/Kg			06/23/14 18:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*45 - 131*		*06/23/14 18:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*		*06/23/14 18:16*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*		*06/23/14 18:16*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-161700/6
Matrix: Solid
Analysis Batch: 161700

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	45.9		ug/Kg		92	70 - 130
Ethylbenzene	50.0	44.4		ug/Kg		89	80 - 137
MTBE	50.0	49.8		ug/Kg		100	70 - 144
m-Xylene & p-Xylene	50.0	46.1		ug/Kg		92	70 - 146
Toluene	50.0	46.6		ug/Kg		93	80 - 128
EDB	50.0	50.7		ug/Kg		101	70 - 140
EDC	50.0	50.2		ug/Kg		100	70 - 130
TBA	500	455		ug/Kg		91	63 - 130
Ethanol	2500	2340		ug/Kg		94	49 - 162
DIPE	50.0	47.4		ug/Kg		95	70 - 131
TAME	50.0	52.5		ug/Kg		105	70 - 140
Ethyl-t-butyl ether (ETBE)	50.0	48.8		ug/Kg		98	70 - 130
o-Xylene	50.0	46.8		ug/Kg		94	70 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*
Toluene-d8 (Surr)	*96*		*58 - 140*

Lab Sample ID: LCSD 720-161700/7
Matrix: Solid
Analysis Batch: 161700

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	45.9		ug/Kg		92	70 - 130	0	20
Ethylbenzene	50.0	44.6		ug/Kg		89	80 - 137	0	20
MTBE	50.0	48.5		ug/Kg		97	70 - 144	3	20
m-Xylene & p-Xylene	50.0	46.1		ug/Kg		92	70 - 146	0	20
Toluene	50.0	46.6		ug/Kg		93	80 - 128	0	20
EDB	50.0	50.8		ug/Kg		102	70 - 140	0	20
EDC	50.0	49.4		ug/Kg		99	70 - 130	1	20
TBA	500	456		ug/Kg		91	63 - 130	0	20
Ethanol	2500	2350		ug/Kg		94	49 - 162	1	20
DIPE	50.0	46.4		ug/Kg		93	70 - 131	2	20
TAME	50.0	51.7		ug/Kg		103	70 - 140	2	20
Ethyl-t-butyl ether (ETBE)	50.0	47.9		ug/Kg		96	70 - 130	2	20
o-Xylene	50.0	46.6		ug/Kg		93	70 - 140	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-161740/4
Matrix: Solid
Analysis Batch: 161740

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg			06/24/14 08:57	1
Ethylbenzene	ND		5.0		ug/Kg			06/24/14 08:57	1
MTBE	ND		5.0		ug/Kg			06/24/14 08:57	1
Toluene	ND		5.0		ug/Kg			06/24/14 08:57	1
EDB	ND		5.0		ug/Kg			06/24/14 08:57	1
Xylenes, Total	ND		10		ug/Kg			06/24/14 08:57	1
EDC	ND		5.0		ug/Kg			06/24/14 08:57	1
TBA	ND		100		ug/Kg			06/24/14 08:57	1
Ethanol	ND		1000		ug/Kg			06/24/14 08:57	1
DIPE	ND		5.0		ug/Kg			06/24/14 08:57	1
TAME	ND		5.0		ug/Kg			06/24/14 08:57	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/Kg			06/24/14 08:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*45 - 131*		*06/24/14 08:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*		*06/24/14 08:57*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*		*06/24/14 08:57*	*1*

Lab Sample ID: LCS 720-161740/5
Matrix: Solid
Analysis Batch: 161740

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	43.5		ug/Kg		87	70 - 130
Ethylbenzene	50.0	41.6		ug/Kg		83	80 - 137
MTBE	50.0	48.7		ug/Kg		97	70 - 144
m-Xylene & p-Xylene	50.0	46.6		ug/Kg		93	70 - 146
Toluene	50.0	44.3		ug/Kg		89	80 - 128
EDB	50.0	51.5		ug/Kg		103	70 - 140
EDC	50.0	44.9		ug/Kg		90	70 - 130
TBA	500	423		ug/Kg		85	63 - 130
Ethanol	2500	1880		ug/Kg		75	49 - 162
DIPE	50.0	38.2		ug/Kg		76	70 - 131
TAME	50.0	53.1		ug/Kg		106	70 - 140
Ethyl-t-butyl ether (ETBE)	50.0	45.0		ug/Kg		90	70 - 130
o-Xylene	50.0	44.1		ug/Kg		88	70 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*
Toluene-d8 (Surr)	*96*		*58 - 140*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-161740/6
Matrix: Solid
Analysis Batch: 161740

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	43.9		ug/Kg		88	70 - 130	1	20
Ethylbenzene	50.0	41.7		ug/Kg		83	80 - 137	0	20
MTBE	50.0	49.5		ug/Kg		99	70 - 144	2	20
m-Xylene & p-Xylene	50.0	46.7		ug/Kg		93	70 - 146	0	20
Toluene	50.0	44.6		ug/Kg		89	80 - 128	1	20
EDB	50.0	52.6		ug/Kg		105	70 - 140	2	20
EDC	50.0	45.2		ug/Kg		90	70 - 130	1	20
TBA	500	449		ug/Kg		90	63 - 130	6	20
Ethanol	2500	1850		ug/Kg		74	49 - 162	1	20
DIPE	50.0	38.7		ug/Kg		77	70 - 131	1	20
TAME	50.0	54.4		ug/Kg		109	70 - 140	3	20
Ethyl-t-butyl ether (ETBE)	50.0	45.8		ug/Kg		92	70 - 130	2	20
o-Xylene	50.0	44.7		ug/Kg		89	70 - 140	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Lab Sample ID: MB 720-161663/1-A
Matrix: Solid
Analysis Batch: 161709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 161663

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.066		mg/Kg		06/23/14 09:20	06/24/14 00:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*86*		*21 - 98*	*06/23/14 09:20*	*06/24/14 00:54*	*1*
2-Fluorobiphenyl	*97*		*30 - 112*	*06/23/14 09:20*	*06/24/14 00:54*	*1*
Terphenyl-d14	*99*		*32 - 117*	*06/23/14 09:20*	*06/24/14 00:54*	*1*
2-Fluorophenol	*92*		*28 - 98*	*06/23/14 09:20*	*06/24/14 00:54*	*1*
Phenol-d5	*82*		*23 - 101*	*06/23/14 09:20*	*06/24/14 00:54*	*1*
2,4,6-Tribromophenol	*96*		*37 - 114*	*06/23/14 09:20*	*06/24/14 00:54*	*1*

Lab Sample ID: LCS 720-161663/2-A
Matrix: Solid
Analysis Batch: 161709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 161663

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	1.33	1.01		mg/Kg		76	44 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*83*		*21 - 98*
2-Fluorobiphenyl	*97*		*30 - 112*
Terphenyl-d14	*99*		*32 - 117*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-161663/2-A
Matrix: Solid
Analysis Batch: 161709

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 161663

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	*88*		*28 - 98*
Phenol-d5	*86*		*23 - 101*
2,4,6-Tribromophenol	*103*		*37 - 114*

Lab Sample ID: LCSD 720-161663/3-A
Matrix: Solid
Analysis Batch: 161709

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 161663

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			1.31	0.989		mg/Kg		75	44 - 115	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5	*82*		*21 - 98*
2-Fluorobiphenyl	*95*		*30 - 112*
Terphenyl-d14	*97*		*32 - 117*
2-Fluorophenol	*87*		*28 - 98*
Phenol-d5	*86*		*23 - 101*
2,4,6-Tribromophenol	*103*		*37 - 114*

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

Lab Sample ID: MB 720-161669/1-A
Matrix: Solid
Analysis Batch: 161650

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 161669

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		06/23/14 10:34	06/23/14 20:45	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		06/23/14 10:34	06/23/14 20:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	*89*		*40 - 130*	*06/23/14 10:34*	*06/23/14 20:45*	*1*

Lab Sample ID: LCS 720-161669/2-A
Matrix: Solid
Analysis Batch: 161650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 161669

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			83.0	85.2		mg/Kg		103	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	*115*		*40 - 130*

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

Lab Sample ID: LCSD 720-161669/3-A
Matrix: Solid
Analysis Batch: 161650

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 161669

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.8	84.9		mg/Kg		103	50 - 150	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*112*		*40 - 130*

GC/MS VOA

Analysis Batch: 161700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58215-2	DE-1-E	Total/NA	Solid	8260B/CA_LUFT MS	161725
LCS 720-161700/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-161700/7	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-161700/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 161725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58215-2	DE-1-E	Total/NA	Solid	5030B	

Analysis Batch: 161740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58215-4	DE-1-S	Total/NA	Solid	8260B/CA_LUFT MS	161761
LCS 720-161740/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-161740/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-161740/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Analysis Batch: 161742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58215-1	DE-1-W	Total/NA	Solid	8260B	161764
720-58215-1	DE-1-W	Total/NA	Solid	8260B	161764
720-58215-3	DE-1-N	Total/NA	Solid	8260B	161764
720-58215-3	DE-1-N	Total/NA	Solid	8260B	161764
LCS 720-161742/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-161742/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 720-161742/4	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 161761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58215-4	DE-1-S	Total/NA	Solid	5030B	

Prep Batch: 161764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58215-1	DE-1-W	Total/NA	Solid	5030B	
720-58215-3	DE-1-N	Total/NA	Solid	5030B	

GC/MS Semi VOA

Prep Batch: 161663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58215-1	DE-1-W	Total/NA	Solid	3546	
720-58215-2	DE-1-E	Total/NA	Solid	3546	
720-58215-3	DE-1-N	Total/NA	Solid	3546	
720-58215-4	DE-1-S	Total/NA	Solid	3546	
LCS 720-161663/2-A	Lab Control Sample	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 161663 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 720-161663/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-161663/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 161709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58215-1	DE-1-W	Total/NA	Solid	8270C	161663
720-58215-2	DE-1-E	Total/NA	Solid	8270C	161663
720-58215-3	DE-1-N	Total/NA	Solid	8270C	161663
720-58215-4	DE-1-S	Total/NA	Solid	8270C	161663
LCS 720-161663/2-A	Lab Control Sample	Total/NA	Solid	8270C	161663
LCSD 720-161663/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C	161663
MB 720-161663/1-A	Method Blank	Total/NA	Solid	8270C	161663

GC Semi VOA

Analysis Batch: 161650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58215-1	DE-1-W	Total/NA	Solid	8015B	161669
720-58215-2	DE-1-E	Total/NA	Solid	8015B	161669
720-58215-3	DE-1-N	Total/NA	Solid	8015B	161669
720-58215-4	DE-1-S	Total/NA	Solid	8015B	161669
LCS 720-161669/2-A	Lab Control Sample	Total/NA	Solid	8015B	161669
LCSD 720-161669/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	161669
MB 720-161669/1-A	Method Blank	Total/NA	Solid	8015B	161669

Prep Batch: 161669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58215-1	DE-1-W	Total/NA	Solid	3546	
720-58215-2	DE-1-E	Total/NA	Solid	3546	
720-58215-3	DE-1-N	Total/NA	Solid	3546	
720-58215-4	DE-1-S	Total/NA	Solid	3546	
LCS 720-161669/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-161669/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-161669/1-A	Method Blank	Total/NA	Solid	3546	

Lab Chronicle

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58215-1

Client Sample ID: DE-1-W

Lab Sample ID: 720-58215-1

Date Collected: 06/23/14 09:00
Matrix: Solid
Date Received: 06/23/14 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			161764	06/24/14 09:00	PDR	TAL PLS
Total/NA	Analysis	8260B		100	161742	06/24/14 11:51	PDR	TAL PLS
Total/NA	Prep	5030B			161764	06/24/14 09:00	PDR	TAL PLS
Total/NA	Analysis	8260B		100	161742	06/24/14 12:51	PDR	TAL PLS
Total/NA	Prep	3546			161663	06/23/14 10:52	NDU	TAL PLS
Total/NA	Analysis	8270C		2	161709	06/24/14 02:29	MQL	TAL PLS
Total/NA	Prep	3546			161669	06/23/14 16:34	AFM	TAL PLS
Total/NA	Analysis	8015B		5	161650	06/23/14 18:58	JL	TAL PLS

Client Sample ID: DE-1-E

Lab Sample ID: 720-58215-2

Date Collected: 06/23/14 09:05
Matrix: Solid
Date Received: 06/23/14 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			161725	06/23/14 18:43	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	161700	06/23/14 21:14	ASC	TAL PLS
Total/NA	Prep	3546			161663	06/23/14 10:52	NDU	TAL PLS
Total/NA	Analysis	8270C		2	161709	06/24/14 02:53	MQL	TAL PLS
Total/NA	Prep	3546			161669	06/23/14 16:34	AFM	TAL PLS
Total/NA	Analysis	8015B		20	161650	06/23/14 19:22	JL	TAL PLS

Client Sample ID: DE-1-N

Lab Sample ID: 720-58215-3

Date Collected: 06/23/14 09:10
Matrix: Solid
Date Received: 06/23/14 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			161764	06/24/14 09:00	PDR	TAL PLS
Total/NA	Analysis	8260B		100	161742	06/24/14 11:22	PDR	TAL PLS
Total/NA	Prep	5030B			161764	06/24/14 09:00	PDR	TAL PLS
Total/NA	Analysis	8260B		1000	161742	06/24/14 12:20	PDR	TAL PLS
Total/NA	Prep	3546			161663	06/23/14 10:52	NDU	TAL PLS
Total/NA	Analysis	8270C		2	161709	06/24/14 03:17	MQL	TAL PLS
Total/NA	Prep	3546			161669	06/23/14 16:34	AFM	TAL PLS
Total/NA	Analysis	8015B		5	161650	06/23/14 18:33	JL	TAL PLS

Client Sample ID: DE-1-S

Lab Sample ID: 720-58215-4

Date Collected: 06/23/14 09:15
Matrix: Solid
Date Received: 06/23/14 10:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			161761	06/24/14 09:00	PDR	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	161740	06/24/14 11:51	PDR	TAL PLS
Total/NA	Prep	3546			161663	06/23/14 10:52	NDU	TAL PLS

Lab Chronicle

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58215-1

Client Sample ID: DE-1-S
Date Collected: 06/23/14 09:15
Date Received: 06/23/14 10:35

Lab Sample ID: 720-58215-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C		2	161709	06/24/14 03:41	MQL	TAL PLS
Total/NA	Prep	3546			161669	06/23/14 16:34	AFM	TAL PLS
Total/NA	Analysis	8015B		2	161650	06/23/14 18:09	JL	TAL PLS

Laboratory References:

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

Certification Summary

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58215-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58215-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8270C	Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58215-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-58215-1	DE-1-W	Solid	06/23/14 09:00	06/23/14 10:35
720-58215-2	DE-1-E	Solid	06/23/14 09:05	06/23/14 10:35
720-58215-3	DE-1-N	Solid	06/23/14 09:10	06/23/14 10:35
720-58215-4	DE-1-S	Solid	06/23/14 09:15	06/23/14 10:35

720-58215

154540

CHAIN OF CUSTODY

Page 1 of 1

Lab: Test America

TAT: Rush - 1 day

Report results to:

Name	Mark Williams
Company	Bureau Veritas
Mailing Address	6920 Koll Center Parkway, Ste. 216
City, State, Zip	Pleasanton, California 94566
Telephone No.	(925) 426-2600
Fax No.	(925) 426-0106
Email:	Mark.williams@us.bureauveritas.com

all analysis

Project Information

Project No: AU Energy - 1800 Powell

Name:

Location: 1800 Powell, Emeryville, CA

Location:

EDD Format for Geotracker (YES) NO

Special instructions and/or specific regulatory requirements:

Sample Condition/Comments

By 3 pm if possible

Sample Identification	Date Sampled	Time Sampled	Matrix/ Media	No. of Conts	Analyses Requested: BTEX, EDB, EDC, MTBE, TAME, ETBE, DIPE, TBA, EtOH 8260	TPH-P	TPH-MD	Naphthalene 8270	Preservative
DE-1-W	6/23/14	9:00	Soil	1	X	X	X	X	ICE
DE-1-E		9:05			X	X	X	X	
DE-1-N		9:10			X	X	X	X	
DE-1-S		9:15			X	X	X	X	

RUSH

720-58215 Chain of Custody

Collected by:	Mark Williams		**Collector's Signature:**		
Relinquished by:	Mark Williams	**Date/Time** 6/23/14 10:33 pm	**Received by:**		**Date/Time** 6-23-14 1035
Relinquished by:		**Date/Time**	**Received by:**		**Date/Time**
Method of Shipment:	Drop off		**Sample Condition on Rcpt:**	9.7°	

Login Sample Receipt Checklist

Client: Bureau Veritas North America, Inc.

Job Number: 720-58215-1

Login Number: 58215

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

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

TestAmerica Job ID: 720-58286-1
Client Project/Site: Au Energy - 1800 Powell

For:
Bureau Veritas North America, Inc.
Bishop Ranch 6
2430 Camino Ramon Suite 122
San Ramon, California 94583

Attn: Mark Williams

Authorized for release by:
6/27/2014 4:25:59 PM

Micah Smith, Project Manager II
(925)484-1919
micah.smith@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
QC Sample Results 8
QC Association Summary 12
Lab Chronicle 14
Certification Summary 15
Method Summary 16
Sample Summary 17
Chain of Custody 18
Receipt Checklists 19

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58286-1

Job ID: 720-58286-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-58286-1

Comments
No additional comments.

Receipt
The samples were received on 6/26/2014 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270C: The following sample(s) was diluted due to the abundance of non-target analytes: DE-2-E (720-58286-2), DE-2-W (720-58286-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: %R of surrogate (2,4,6-tribromophenol) outside of control limit.

Method(s) 8270C: Surrogate recovery for the following sample(s) was outside the upper control limit: DE-2-E (720-58286-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8015B: The following sample(s) required a dilution due to the nature of the sample matrix: (720-58286-1 MS), (720-58286-1 MSD). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8015B: Due to the high concentration of C10-C28, the matrix spike / matrix spike duplicate (MS/MSD) for batch 161926 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8015B: The following sample(s) required a dilution due to the nature of the sample matrix: DE-2-W (720-58286-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58286-1

Client Sample ID: DE-2-W — Lab Sample ID: 720-58286-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	9.8		9.7		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	460		20		mg/Kg	20		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1300		1000		mg/Kg	20		8015B	Total/NA

Client Sample ID: DE-2-E — Lab Sample ID: 720-58286-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	150		2.0		mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	350		99		mg/Kg	2		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58286-1

Client Sample ID: DE-2-W
Date Collected: 06/26/14 08:50
Date Received: 06/26/14 09:40

Lab Sample ID: 720-58286-1
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.9		ug/Kg		06/26/14 18:57	06/26/14 21:17	1
Benzene	ND		4.9		ug/Kg		06/26/14 18:57	06/26/14 21:17	1
EDB	ND		4.9		ug/Kg		06/26/14 18:57	06/26/14 21:17	1
EDC	ND		4.9		ug/Kg		06/26/14 18:57	06/26/14 21:17	1
Ethylbenzene	ND		4.9		ug/Kg		06/26/14 18:57	06/26/14 21:17	1
Toluene	ND		4.9		ug/Kg		06/26/14 18:57	06/26/14 21:17	1
Xylenes, Total	**9.8**		9.7		ug/Kg		06/26/14 18:57	06/26/14 21:17	1
TBA	ND		97		ug/Kg		06/26/14 18:57	06/26/14 21:17	1
Ethanol	ND		970		ug/Kg		06/26/14 18:57	06/26/14 21:17	1
DIPE	ND		4.9		ug/Kg		06/26/14 18:57	06/26/14 21:17	1
TAME	ND		4.9		ug/Kg		06/26/14 18:57	06/26/14 21:17	1
Ethyl-t-butyl ether (ETBE)	ND		4.9		ug/Kg		06/26/14 18:57	06/26/14 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*45 - 131*	*06/26/14 18:57*	*06/26/14 21:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 140*	*06/26/14 18:57*	*06/26/14 21:17*	*1*
Toluene-d8 (Surr)	*83*		*58 - 140*	*06/26/14 18:57*	*06/26/14 21:17*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1.3		mg/Kg		06/26/14 13:03	06/27/14 13:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*89*		*21 - 98*	*06/26/14 13:03*	*06/27/14 13:12*	*10*
2-Fluorobiphenyl	*84*		*30 - 112*	*06/26/14 13:03*	*06/27/14 13:12*	*10*
Terphenyl-d14	*101*		*32 - 117*	*06/26/14 13:03*	*06/27/14 13:12*	*10*
2-Fluorophenol	*84*		*28 - 98*	*06/26/14 13:03*	*06/27/14 13:12*	*10*
Phenol-d5	*83*		*23 - 101*	*06/26/14 13:03*	*06/27/14 13:12*	*10*
2,4,6-Tribromophenol	*73*		*37 - 114*	*06/26/14 13:03*	*06/27/14 13:12*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**460**		20		mg/Kg		06/26/14 13:18	06/27/14 10:21	20
Motor Oil Range Organics [C24-C36]	**1300**		1000		mg/Kg		06/26/14 13:18	06/27/14 10:21	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*06/26/14 13:18*	*06/27/14 10:21*	*20*

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58286-1

Client Sample ID: DE-2-E
Date Collected: 06/26/14 08:35
Date Received: 06/26/14 09:40

Lab Sample ID: 720-58286-2
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		4.8		ug/Kg		06/26/14 18:57	06/26/14 21:46	1
Benzene	ND		4.8		ug/Kg		06/26/14 18:57	06/26/14 21:46	1
EDB	ND		4.8		ug/Kg		06/26/14 18:57	06/26/14 21:46	1
EDC	ND		4.8		ug/Kg		06/26/14 18:57	06/26/14 21:46	1
Ethylbenzene	ND		4.8		ug/Kg		06/26/14 18:57	06/26/14 21:46	1
Toluene	ND		4.8		ug/Kg		06/26/14 18:57	06/26/14 21:46	1
Xylenes, Total	ND		9.6		ug/Kg		06/26/14 18:57	06/26/14 21:46	1
TBA	ND		96		ug/Kg		06/26/14 18:57	06/26/14 21:46	1
Ethanol	ND		960		ug/Kg		06/26/14 18:57	06/26/14 21:46	1
DIPE	ND		4.8		ug/Kg		06/26/14 18:57	06/26/14 21:46	1
TAME	ND		4.8		ug/Kg		06/26/14 18:57	06/26/14 21:46	1
Ethyl-t-butyl ether (ETBE)	ND		4.8		ug/Kg		06/26/14 18:57	06/26/14 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*45 - 131*	*06/26/14 18:57*	*06/26/14 21:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*	*06/26/14 18:57*	*06/26/14 21:46*	*1*
Toluene-d8 (Surr)	*88*		*58 - 140*	*06/26/14 18:57*	*06/26/14 21:46*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.13		mg/Kg		06/26/14 13:03	06/27/14 13:36	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*96*		*21 - 98*	*06/26/14 13:03*	*06/27/14 13:36*	*2*
2-Fluorobiphenyl	*98*		*30 - 112*	*06/26/14 13:03*	*06/27/14 13:36*	*2*
Terphenyl-d14	*104*		*32 - 117*	*06/26/14 13:03*	*06/27/14 13:36*	*2*
2-Fluorophenol	*104*	*X*	*28 - 98*	*06/26/14 13:03*	*06/27/14 13:36*	*2*
Phenol-d5	*88*		*23 - 101*	*06/26/14 13:03*	*06/27/14 13:36*	*2*
2,4,6-Tribromophenol	*119*	*X*	*37 - 114*	*06/26/14 13:03*	*06/27/14 13:36*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**150**		2.0		mg/Kg		06/26/14 13:18	06/27/14 11:09	2
Motor Oil Range Organics [C24-C36]	**350**		99		mg/Kg		06/26/14 13:18	06/27/14 11:09	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*101*		*40 - 130*	*06/26/14 13:18*	*06/27/14 11:09*	*2*

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58286-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-161938/4
Matrix: Solid
Analysis Batch: 161938

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	ND		5.0		ug/Kg			06/26/14 18:52	1
Benzene	ND		5.0		ug/Kg			06/26/14 18:52	1
EDB	ND		5.0		ug/Kg			06/26/14 18:52	1
EDC	ND		5.0		ug/Kg			06/26/14 18:52	1
Ethylbenzene	ND		5.0		ug/Kg			06/26/14 18:52	1
Toluene	ND		5.0		ug/Kg			06/26/14 18:52	1
Xylenes, Total	ND		10		ug/Kg			06/26/14 18:52	1
TBA	ND		100		ug/Kg			06/26/14 18:52	1
Ethanol	ND		1000		ug/Kg			06/26/14 18:52	1
DIPE	ND		5.0		ug/Kg			06/26/14 18:52	1
TAME	ND		5.0		ug/Kg			06/26/14 18:52	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/Kg			06/26/14 18:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*45 - 131*		*06/26/14 18:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 140*		*06/26/14 18:52*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*		*06/26/14 18:52*	*1*

Lab Sample ID: LCS 720-161938/5
Matrix: Solid
Analysis Batch: 161938

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
MTBE	50.0	49.4		ug/Kg		99	70 - 144
Benzene	50.0	43.8		ug/Kg		88	70 - 130
EDB	50.0	53.5		ug/Kg		107	70 - 140
EDC	50.0	52.1		ug/Kg		104	70 - 130
Ethylbenzene	50.0	44.0		ug/Kg		88	80 - 137
Toluene	50.0	43.5		ug/Kg		87	80 - 128
m-Xylene & p-Xylene	50.0	48.3		ug/Kg		97	70 - 146
o-Xylene	50.0	47.1		ug/Kg		94	70 - 140
TBA	500	510		ug/Kg		102	63 - 130
Ethanol	2500	2120		ug/Kg		85	49 - 162
DIPE	50.0	41.7		ug/Kg		83	70 - 131
TAME	50.0	54.4		ug/Kg		109	70 - 140
Ethyl-t-butyl ether (ETBE)	50.0	48.5		ug/Kg		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-161938/6
Matrix: Solid
Analysis Batch: 161938

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
MTBE			50.0	49.3		ug/Kg		99	70 - 144	0	20
Benzene			50.0	44.1		ug/Kg		88	70 - 130	1	20
EDB			50.0	51.6		ug/Kg		103	70 - 140	4	20
EDC			50.0	50.3		ug/Kg		101	70 - 130	4	20
Ethylbenzene			50.0	43.5		ug/Kg		87	80 - 137	1	20
Toluene			50.0	43.9		ug/Kg		88	80 - 128	1	20
m-Xylene & p-Xylene			50.0	47.8		ug/Kg		96	70 - 146	1	20
o-Xylene			50.0	46.3		ug/Kg		93	70 - 140	2	20
TBA			500	487		ug/Kg		97	63 - 130	5	20
Ethanol			2500	2140		ug/Kg		85	49 - 162	1	20
DIPE			50.0	41.3		ug/Kg		83	70 - 131	1	20
TAME			50.0	53.3		ug/Kg		107	70 - 140	2	20
Ethyl-t-butyl ether (ETBE)			50.0	47.5		ug/Kg		95	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Lab Sample ID: MB 720-161905/1-A
Matrix: Solid
Analysis Batch: 161915

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 161905

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.067		mg/Kg		06/26/14 07:57	06/26/14 15:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*87*		*21 - 98*	*06/26/14 07:57*	*06/26/14 15:35*	*1*
2-Fluorobiphenyl	*96*		*30 - 112*	*06/26/14 07:57*	*06/26/14 15:35*	*1*
Terphenyl-d14	*102*		*32 - 117*	*06/26/14 07:57*	*06/26/14 15:35*	*1*
2-Fluorophenol	*97*		*28 - 98*	*06/26/14 07:57*	*06/26/14 15:35*	*1*
Phenol-d5	*80*		*23 - 101*	*06/26/14 07:57*	*06/26/14 15:35*	*1*
2,4,6-Tribromophenol	*96*		*37 - 114*	*06/26/14 07:57*	*06/26/14 15:35*	*1*

Lab Sample ID: LCS 720-161905/2-A
Matrix: Solid
Analysis Batch: 161915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 161905

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene			1.32	1.04		mg/Kg		79	44 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*91*		*21 - 98*
2-Fluorobiphenyl	*103*		*30 - 112*
Terphenyl-d14	*99*		*32 - 117*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-161905/2-A
Matrix: Solid
Analysis Batch: 161915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 161905

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol	97		28 - 98
Phenol-d5	89		23 - 101
2,4,6-Tribromophenol	118	X	37 - 114

Lab Sample ID: LCSD 720-161905/3-A
Matrix: Solid
Analysis Batch: 161915

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 161905

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			1.32	1.04		mg/Kg		79	44 - 115	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5	90		21 - 98
2-Fluorobiphenyl	105		30 - 112
Terphenyl-d14	104		32 - 117
2-Fluorophenol	96		28 - 98
Phenol-d5	90		23 - 101
2,4,6-Tribromophenol	120	X	37 - 114

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

Lab Sample ID: MB 720-161926/1-A
Matrix: Solid
Analysis Batch: 161900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 161926

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		06/26/14 13:18	06/27/14 04:45	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		06/26/14 13:18	06/27/14 04:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	101		40 - 130	06/26/14 13:18	06/27/14 04:45	1

Lab Sample ID: LCS 720-161926/2-A
Matrix: Solid
Analysis Batch: 161900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 161926

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]			82.4	74.6		mg/Kg		90	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
p-Terphenyl	98		40 - 130

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

Lab Sample ID: LCSD 720-161926/3-A
Matrix: Solid
Analysis Batch: 161900

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 161926

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			82.7	76.6		mg/Kg		93	50 - 150	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*99*		*40 - 130*

Lab Sample ID: 720-58286-1 MS
Matrix: Solid
Analysis Batch: 161899

Client Sample ID: DE-2-W
Prep Type: Total/NA
Prep Batch: 161926

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	460		82.5	934	4	mg/Kg		574	50 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*40 - 130*

Lab Sample ID: 720-58286-1 MSD
Matrix: Solid
Analysis Batch: 161899

Client Sample ID: DE-2-W
Prep Type: Total/NA
Prep Batch: 161926

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	460		82.6	722	4	mg/Kg		316	50 - 150	26	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
p-Terphenyl	*0*	*X D*	*40 - 130*

GC/MS VOA

Analysis Batch: 161938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58286-1	DE-2-W	Total/NA	Solid	8260B/CA_LUFT MS	161957
720-58286-2	DE-2-E	Total/NA	Solid	8260B/CA_LUFT MS	161957
LCS 720-161938/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-161938/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-161938/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 161957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58286-1	DE-2-W	Total/NA	Solid	5030B	
720-58286-2	DE-2-E	Total/NA	Solid	5030B	

GC/MS Semi VOA

Prep Batch: 161905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58286-1	DE-2-W	Total/NA	Solid	3546	
720-58286-2	DE-2-E	Total/NA	Solid	3546	
LCS 720-161905/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-161905/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-161905/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 161915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-161905/2-A	Lab Control Sample	Total/NA	Solid	8270C	161905
LCSD 720-161905/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C	161905
MB 720-161905/1-A	Method Blank	Total/NA	Solid	8270C	161905

Analysis Batch: 162000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58286-1	DE-2-W	Total/NA	Solid	8270C	161905
720-58286-2	DE-2-E	Total/NA	Solid	8270C	161905

GC Semi VOA

Analysis Batch: 161899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58286-1 MS	DE-2-W	Total/NA	Solid	8015B	161926
720-58286-1 MSD	DE-2-W	Total/NA	Solid	8015B	161926

Analysis Batch: 161900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-161926/2-A	Lab Control Sample	Total/NA	Solid	8015B	161926
LCSD 720-161926/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	161926
MB 720-161926/1-A	Method Blank	Total/NA	Solid	8015B	161926

GC Semi VOA (Continued)

Prep Batch: 161926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58286-1	DE-2-W	Total/NA	Solid	3546	
720-58286-1 MS	DE-2-W	Total/NA	Solid	3546	
720-58286-1 MSD	DE-2-W	Total/NA	Solid	3546	
720-58286-2	DE-2-E	Total/NA	Solid	3546	
LCS 720-161926/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 720-161926/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
MB 720-161926/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 161978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58286-1	DE-2-W	Total/NA	Solid	8015B	161926

Analysis Batch: 161979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-58286-2	DE-2-E	Total/NA	Solid	8015B	161926

Lab Chronicle

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58286-1

Client Sample ID: DE-2-W

Lab Sample ID: 720-58286-1

Date Collected: 06/26/14 08:50

Matrix: Solid

Date Received: 06/26/14 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			161957	06/26/14 18:57	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	161938	06/26/14 21:17	PDR	TAL PLS
Total/NA	Prep	3546			161905	06/26/14 13:03	NVP	TAL PLS
Total/NA	Analysis	8270C		10	162000	06/27/14 13:12	MQL	TAL PLS
Total/NA	Prep	3546			161926	06/26/14 13:18	STL	TAL PLS
Total/NA	Analysis	8015B		20	161978	06/27/14 10:21	JL	TAL PLS

Client Sample ID: DE-2-E

Lab Sample ID: 720-58286-2

Date Collected: 06/26/14 08:35

Matrix: Solid

Date Received: 06/26/14 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			161957	06/26/14 18:57	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	161938	06/26/14 21:46	PDR	TAL PLS
Total/NA	Prep	3546			161905	06/26/14 13:03	NVP	TAL PLS
Total/NA	Analysis	8270C		2	162000	06/27/14 13:36	MQL	TAL PLS
Total/NA	Prep	3546			161926	06/26/14 13:18	STL	TAL PLS
Total/NA	Analysis	8015B		2	161979	06/27/14 11:09	JL	TAL PLS

Laboratory References:

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

Certification Summary

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58286-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58286-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8270C	Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Bureau Veritas North America, Inc.
Project/Site: Au Energy - 1800 Powell

TestAmerica Job ID: 720-58286-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-58286-1	DE-2-W	Solid	06/26/14 08:50	06/26/14 09:40
720-58286-2	DE-2-E	Solid	06/26/14 08:35	06/26/14 09:40

154610

CHAIN OF CUSTODY

720-58286

Page 1 of 1

Lab: Test America

TAT: 24 hour

6/27/2014

Report results to:

Name: Mark Williams

Company: Bureau Veritas San Ramon, CA

Mailing Address: ~~6320~~ ~~Koll Center Parkway~~, ~~Ste. 216~~

City, State, Zip: ~~Pleasanton~~, ~~California 94566~~

Telephone No.: (925) 426-2600

Fax No.: (925) 426-0106

Email: Mark.Williams1@us.bureauveritas.com

Project Information

Project No: 13181.03

Name: 1800 Powell

Location: Emeryville, CA

Location:

EDD Format for Geotracker: YES NO

Special instructions and/or specific regulatory requirements:

Analyses Requested

Sample Identification	Date Sampled	Time Sampled	Matrix/ Media	No. of Conts.	BTEX, EDB, EDC	MTBE, TAME, ETBE, DIPE, TBA, ETOH by 8260	TPH-diesel	TPH-motor oil	Naphthalene 8270	Sample Condition/Comments	Preservative
DE-2-W	6/26/14	8:30	Soil	1	X		X	X	X		ice
DE-2-E	6/26/14	8:35	Soil	1	X		X	X	X		ice

720-58286 Chain of Custody

RUSH

4.12

Collected by: Mark Williams

Collector's Signature:

Relinquished by: Mark Williams Date/Time 6/26/14 9:40am Received by: Date/Time 6-26-14 940

Relinquished by: Date/Time Received by: Date/Time

Method of Shipment: Sample Condition on Rcpt:

Login Sample Receipt Checklist

Client: Bureau Veritas North America, Inc.

Job Number: 720-58286-1

Login Number: 58286

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Mullen, Joan

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

APPENDIX I
SOIL DISPOSAL DOCUMENTATION

2120-03

Invoice

Sparger Technology, Inc
3738 Bradview Dr.
Sacramento, CA 95827
U.S A.

Voice: 916 369-7688
Fax: 916 369-7689

Invoice Number: 20926C
Invoice Date: Jan 9, 2015
Page: 1

Sold To:
Au Energy
4185 Albrae Street
Fremont, CA 94538
USA

Ship to:
Au Energy
4185 Albrae Street
Fremont, CA 94538
USA

Customer ID	Customer PO	Payment Terms	
Au Energy	1800 Powell Shell	See Due Date; 1.5%/mo. finance	
Sales Rep ID	**Shipping Method**	**Ship Date**	**Due Date**
James,RL	NO SHIPPING		1/24/15

Quantity	Item	Description	Unit Price	Extension
		ATTN: John Ellis Project Name: 1800 Powell Shell Emeryville- Trucking & Disposal **********		
1.00	Disposal	Disposal-Keller Canyon 11/03/14 to 11/07/14	7,780.46	7,780.46
1.00	Transporation	Trucking Transportation Soil to Keller Canyon 11/03/14 to 11/07/14	2,760.00	2,760.00
3.00	Manifest	Manifest Coordination & Set-up	75.00	225.00

Subtotal	10,765 46
Sales Tax	
Total Invoice Amount	10,765.46
Payment Received	
TOTAL	10,765.46

Check No: AU

JAN 20 2015

Au N. 72646

History and Wa Specific Contract: 42121413581

42121413581	Ticket	Facility	Customer	Truck	Material	Contract	Billing	Quar	Ordered	Minimur	Maximu	Material	Tax	Total	
11/03/2014	I	01	983684	674978	SST7	SW-BEN	23.30	F	28.53	TN		0.00	$0.00	$664.75	$664.75
11/03/2014	I	01	983752	674978	SST7	SW-BEN	23.30	F	24.19	TN		0.00	$0.00	$563.63	$563.63
11/04/2014	I	01	983834	674978	18T240	SW-BEN	23.30	F	30.06	TN		0.00	$0.00	$700.40	$700.40
11/04/2014	I	01	983846	674978	18T203	SW-BEN	23.30	F	21.82	TN		0.00	$0.00	$508.41	$508.41
11/04/2014	I	01	983892	674978	18T241	SW-BEN	23.30	F	21.70	TN		0.00	$0.00	$505.61	$505.61
11/07/2014	I	01	984384	674978	18T241	SW-BEN	23.30	F	27.46	TN		0.00	$0.00	$639.82	$639.82
11/07/2014	I	01	984406	674978	HE10	SW-BEN	23.30	F	23.79	TN		0.00	$0.00	$554.31	$554.31
11/07/2014	I	01	984419	674978	SABIE503	SW-BEN	23.30	F	24.67	TN		0.00	$0.00	$574.81	$574.81
11/07/2014	I	01	984446	674978	18T241	SW-BEN	23.30	F	27.52	TN		0.00	$0.00	$641.22	$641.22
11/07/2014	I	01	984461	674978	HE10	SW-BEN	23.30	F	25.51	TN		0.00	$0.00	$594.38	$594.38
11/07/2014	I	01	984477	674978	SABIE503	SW-BEN	23.30	F	23.55	TN		0.00	$0.00	$548.72	$548.72
11/07/2014	I	01	984494	674978	18T241	SW-BEN	23.30	F	11.57	TN		0.00	$0.00	$269.58	$269.58
Tickets Report	12	Items R	12	Contrac	$6,765.62	$0.00	$6,765.62								

Material Summ	Weight	Volume	Count		Billing	Material	Tot Tax	Tota	Total		Inbound	Inbound	Inbound	Outbour	Inbound	
WU - SW-BEN	290.37	0.00	TN		240.00	0.00	YD		0.00		0.00	290.37	TN		$6,765.62	$6,765.62
Cash Totals:	$0.00	$0.00		$0.00	Invoice	$6,765.62	$0.00		$6,765.62	Tickets	12				Report Totals:	$6,765.62

KELLER CANY me0001 Page -1 of 1

EIGHTEEN TRUCKING CO.
P O BOX 881116
SAN FRANCISCO CA 94188
Office: 415 552-1818 Fax: 415 552-3130
Lic#: CA 317263

Date: 11/10/2014
Invoice: 201411-66
DTS Job: 11/10/14-7
Cust. #: SPAR

SPARGER TECHNOLOGY
RAY JAMES
3738 BRADVIEW DR.
SACRAMENTO, CA 95827

Origin: 1800 POWELL ST.
EMERIVILLE, CA

Destination: KELLER CANYON
PITTSBURG, CA

Date	Ticket	Pay Code	Truck	Description	Qty	Rate	Amount
11/03	334232	SUR	7	SOIL	2.00	200.00	400.00
11/04	330357	196	203	SOIL	2.00	200.00	400.00
11/04	337692	198	198	SOIL	1.00	200.00	200.00
11/07	330360	196	203	SOIL	3.00	200.00	600.00

Amount: 1,600.00

SPARGER TECHNOLOGY INC.
NOV 14 2014
RECEIVED

**** THANK YOU FOR YOUR BUSINESS ****

EIGHTEEN TRUCKING CO.
P O. BOX 881116
SAN FRANCISCO CA 94188
Office: 415 552-1818 Fax: 415 552-3130
Lic#: CA 317263

Date: 11/21/2014
Invoice: 201411-209
DTS Job: 11/21/14-2
Cust. #: SPAR

SPARGER TECHNOLOGY INC
NOV 24 2014
RECEIVED

SPARGER TECHNOLOGY
RAY JAMES
3738 BRADVIEW DR.
SACRAMENTO, CA 95827

Origin: 1800 POWELL ST.
EMERIVILLE, CA

Destination: KELLER CANYON LANDFILL
PITTSBURG, CA

Date	Ticket	Pay Code	Truck	Description	Qty	Rate	Amount
11/07	320438	SABIE	10	SOIL	2.00	200.00	400.00
11/07	325311	SABIE	503	SOIL	2.00	200.00	400.00

Amount: 800.00

** THANK YOU FOR YOUR BUSINESS **

Accrued 11/4/14

102-2120-10

Invoice

Invoice Number: 20926B

Invoice Date: Oct 15, 2014

Page: 1

Sparger Technology, Inc
3738 Bradview Dr.
Sacramento, CA 95827
U.S.A

Voice: 916 369-7688
Fax: 916 369-7689

Sold To:
Au Energy
4185 Albrae Street
Fremont, CA 94538
USA

Ship to:
Au Energy
4185 Albrae Street
Fremont, CA 94538
USA

Customer ID	Customer PO	Payment Terms	
Au Energy	1800 Powell Shell	See Due Date; 1.5%/mo finance	
Sales Rep ID	**Shipping Method**	**Ship Date**	**Due Date**
James,RL	NO SHIPPING		10/30/14

Quantity	Item	Description	Unit Price	Extension
		AIIN: John Ellis Project Name: 1800 Powell Emeryville-Trucking & Disposal ********** ********** **		
1.00	Disposal	Disposal-Forward Landfill Asbestos Cotaining Material 08/26/14 to 08/27/14	4,022.70	4,022.70
1.00	Iransporation	Trucking Transportation Soil-Asbestos Containing Material 08/26/14 to 08/27/14	2,070 00	2,070 00

PAID
NOV 0 3 2014
BY: Au# 71747

Subtotal	6,092.70
Sales Tax	
Total Invoice Amount	6,092 70
Payment Received	
TOTAL	6,092 70

Check No:

EIGHTEEN TRUCKING CO.
P O BOX 881116
SAN FRANCISCO CA 94188
Office: 415 552-1818 Fax: 415 552-3130
Lic#: CA 317263

Date: 09/13/2014
Invoice: 201409-72
DTS Job: 09/13/14-2
Cust. #: SPAR

SPARGER TECHNOLOGY
RAY JAMES
3738 BRADVIEW DR.
SACRAMENTO, CA 95827

Origin: 1800 1/2 POWELL ST.
EMERVILLE, CA.

Destination: FORWARD LANDFILL
MANTECA, CA.

Date	Ticket	Pay Code	Truck	Description	Qty	Rate	Amount
08/26	321300	MILLAN		AU ENERGY, EMERVILLE, CA	2.00	450.00	900.00
08/26	327617	204		AU ENERGY, EMERVILLE, CA	2.00	450.00	900.00

Amount: 1,800.00

**** THANK YOU FOR YOUR BUSINESS ****

All Ticket Types
History and Waiting

Summary Contract Activity Report

August 16, 2014 to August 31, 2014
Specific Contract: 4204149337

1800 Powell Emeryville

All Facilities

Contract	Weight Inbound	Weight Outbound	Volume Inbound	Volume Outbound	Count Inbound	Count Outbound	Billing Qty	Material Total	Tax Total	Total	Item Count	Ticket Count
4204149337												
SW-ASBESTOS-FRIABLE	66.00	0.00 TN	66.00	0.00 YD	0.00	0.00	66.00 TN	$3,498.00	$1,560.24	$5,058.24	4	
Contract Totals:	66.00	0.00 TN	66.00	0.00 YD	0.00	0.00	66.00 TN	$3,498.00	$1,560.24	$5,058.24	4	4
	66.00	0.00 TN	66.00	0.00 YD	0.00	0.00	66.00 TN	$3,498.00	$1,560.24	$5,058.24	4	4

Spargel

2

Done

FORWARD INCORPORATED

A REPUBLIC SERVICES COMPANY

1145 WEST CHARTER WAY • STOCKTON, CA 95206
Ph 209-466-4482 • 800-204-4242 • Fx 209-466-1067

INVOICE

TO: **AU ENERGY, LLC**
ACCOUNTS PAYABLE
41805 ALBRAE ST. 2ND FLOOR
FREMONT, CA 94538
102 => Powell Shell

INVOICE NO.	**889073-0831T**
PAGE	**1**
DATE	**Aug-31-14**
CUSTOMER NO.	**889073**
SITE NO.	
REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
Aug 16-31		FRIABLE ASBESTOS		INV42166	66.00 TN	
		WASTE TAX at $21.48/TN				$1,417.68
		SJ Cnty / AB 939 Fee at $2.00/TN				$132.00
		SJ Cnty / Rd Mitigation Fee at $0.16/TN				$10.56
		INVOICE TAX TOTAL				**$1,560.24**

PAID
NOV 0 3 2014
BY: Acct 71745

RECEIVED
SEP 26 2014
BY:

o/s Bal

Account Status

Payment due upon receipt of this invoice. 1.5% per month (18% per annum) late charge on accounts over 30 days from date of invoice. Payments received after invoice date are not reflected. To ensure proper credit, please include your account number on your check and include the bottom portion of this invoice. When making payment on multiple accounts, please include the account numbers and the amounts of payment.

TOTAL THIS INVOICE **$1,560.24**

CURRENT	31 - 60 DAYS	61 - 90 DAYS	OVER 90 DAYS
$1,560.24	$11,100.18	$21,593.94	$0.00

PLEASE PAY THIS AMOUNT **$34,254.36**

We reserve the right to suspend service without notice on any past due account.

INVOICE NO.	**889073-0831T**
PAGE	**1**
DATE	**Aug-26-14**
CUSTOMER NO.	**889073**
SITE NO.	
REFERENCE NO.	
REMARKS	

Please remit to:

REPUBLIC SERVICES
FORWARD, INC.
FILE 41265
LOS ANGELES, CA 90074-1265

AMOUNT OF REMITTANCE

PLEASE RETURN THIS PORTION WITH REMITTANCE

Summary Contract Activity Report

All Ticket Types
History and Waiting

August 16, 2014 to August 31, 2014
Specific Contract: 4204149337

All Facilities

Contract	Weight Inbound	Weight Outbound	Volume Inbound	Volume Outbound	Count Inbound	Count Outbound	Billing Qty	Material Total	Tax Total	Total	Item Count	Ticket Count
4204149337												
SW-ASBESTOS-FRIABLE	66.00	0.00 TN	66.00	0.00 YD	0.00	0.00	66.00 TN	$3,498.00	($1,560.24)	$5,058.24	4	
Contract Totals:	66.00	0.00 TN	66.00	0.00 YD	0.00	0.00	66.00 TN	$3,498.00	$1,560.24	$5,058.24	4	4
	66.00	0.00 TN	66.00	0.00 YD	0.00	0.00	66.00 TN	$3,498.00	$1,560.24	$5,058.24	4	4

FORWARD INCORPORATED

A REPUBLIC SERVICES COMPANY

1145 WEST CHARTER WAY • STOCKTON, CA 95206
Ph 209-466-4482 • 800-204-4242 • Fx 209-466-1067

INVOICE

TO:
SPARGER TECHNOLOGY, INC.
RAY JAMES
3738 BRADVIEW DRIVE
SACRAMENTO, CA 95827

INVOICE NO.	0000042166
PAGE	1
DATE	Aug-31-14
CUSTOMER NO.	889073
SITE NO.	
REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
26 - Aug	VA	SW-ASBESTOS-FRIABLE Reference: 011919716JJK/416899 Vehicle: EIGHT 236 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1033000	16.00 TN	$848.00
26 - Aug	VA	SW-ASBESTOS-FRIABLE Reference: 011919715JJK/416859 Vehicle: MILLAN 410 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1033003	15.37 TN	$814.61
26 - Aug	VA	SW-ASBESTOS-FRIABLE Reference: 011919714JJK/416860 Vehicle: MILLAN 410 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1033004	16.44 TN	$871.32
27 - Aug	VA	SW-ASBESTOS-FRIABLE Reference: 011919713JJK Vehicle: EIGHT 236 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1031452	18.19 TN	$964.07
31 - Aug	01	WASTE TAX at $21.48/TN on 66.00	0.00			$1,417.68
31 - Aug	02	SJ Cnty / AB 939 Fee at $2.00/TN on 66.00	0.00			$132.00
31 - Aug	03	SJ Cnty / Rd Mitigation Fee at $0.16/TN on 66.00	0.00			$10.56
		Material Summary				
	VA	SW-ASBESTOS-FRIABLE			66.00 TN	

Account Status

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CURRENT	31 - 60 DAYS	61 - 90 DAYS	OVER 90 DAYS
$ 18,924.30	$ 35,986.33	$ 70,006.79	$ 0.00

TOTAL THIS INVOICE $5,058.24

PLEASE PAY THIS AMOUNT $124,917.42

We reserve the right to suspend service without notice on any past due account.

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FORWARD
INCORPORATED
1145 W. Charter Way
Stockton, CA 95206
A REPUBLIC SERVICES COMPANY

Here is the invoice for the taxes billed to Sparger Technology for June and July 2014.

9/02/14 Requested W-9 via email.

The W-9 address is different from remittance address.

Please call me if you have questions or concerns.

Virginia Kinch
Billing Coordinator
209-547-7529
vkinch@republicservices.com

Accrued 9/9/14 102

2120-10

FORWARD INCORPORATED

A REPUBLIC SERVICES COMPANY

1145 WEST CHARTER WAY • STOCKTON, CA 95206
Ph 209-466-4482 • 800-204-4242 • Fx 209-466-1067

INVOICE

TO:
AU ENERGY, LLC
ACCOUNTS PAYABLE
41805 ALBRAE ST. 2ND FLOOR
FREMONT, CA 94538

INVOICE NO.	889073-0607T
PAGE	1
DATE	Aug-26-14
CUSTOMER NO.	889073
SITE NO.	
REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
Jun 1-15		FRIABLE ASBESTOS		INV41691	303.49 TN	
		WASTE TAX at $21.48/TN				$6,518.96
		SJ Cnty / AB 939 Fee at $2.00/TN				$606.98
		SJ Cnty / Rd Mitigation Fee at $0.16/TN				$48.56
		INVOICE TAX TOTAL				**$7,174.50**
Jun 16-30		FRIABLE ASBESTOS		INV41983	609.96 TN	
		WASTE TAX at $21.48/TN				$13,101.92
		SJ Cnty / AB 939 Fee at $2.00/TN				$1,219.92
		SJ Cnty / Rd Mitigation Fee at $0.16/TN				$97.60
		INVOICE TAX TOTAL				**$14,419.44**
Jul 1-15		FRIABLE ASBESTOS		INV41871	389.62 TN	
		WASTE TAX at $21.48/TN				$8,369.05
		SJ Cnty / AB 939 Fee at $2.00/TN				$779.24
		SJ Cnty / Rd Mitigation Fee at $0.16/TN				$62.34
		INVOICE TAX TOTAL				**$9,210.63**
Jul 16-31		FRIABLE ASBESTOS		INV41983	79.93 TN	
		WASTE TAX at $21.48/TN				$1,716.90
		SJ Cnty / AB 939 Fee at $2.00/TN				$159.86
		SJ Cnty / Rd Mitigation Fee at $0.16/TN				$12.79
		INVOICE TAX TOTAL				**$1,889.55**
		INVOICE TAX GRAND TOTAL (JUN-JUL)				**$32,694.12**

PAID
SEP 22 2014
BY: AU#7133

Original invoices attached as backup.

AUG 28 REC'D

Account Status

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$1,889.55	$23,630.07	$7,174.50	$0.00

TOTAL THIS INVOICE	$32,694.12
PLEASE PAY THIS AMOUNT	**$32,694.12**

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INVOICE NO.	889073-0607T
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REPUBLIC SERVICES
FORWARD, INC.
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LOS ANGELES, CA 90074-1265

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NS-042 (11/12)

FORWARD INCORPORATED

A REPUBLIC SERVICES COMPANY

1145 WEST CHARTER WAY • STOCKTON, CA 95206
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INVOICE

TO:
SPARGER TECHNOLOGY, INC.
RAY JAMES
3738 BRADVIEW DRIVE
SACRAMENTO, CA 95827

INVOICE NO.	0000041691
PAGE	1
DATE	Jun-15-14
CUSTOMER NO.	889073
SITE NO.	
REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
09 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 004256477 SKS Vehicle: PONDER 120 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1017190	19.71 TN	$1,044.63
09 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 004256479 SKS Vehicle: PONDER 104 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1017207	19.73 TN	$1,045.69
09 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 004256478 SKS Vehicle: PONDER 117 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1017320	13.09 TN	$693.77
10 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 004256475 SKS Vehicle: PONDER 117 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1017276	13.73 TN	$727.69
10 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 004256476sks Vehicle: PONDER 104 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1017309	18.80 TN	$996.40
10 - Jun	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1017317	17.19 TN	$911.07

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PAGE	2
DATE	Jun-15-14
CUSTOMER NO.	-889073
SITE NO.	
REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
		Reference: 004256465SKS Vehicle: PONDER 120 Contract: 4204149337 Generator Name Au Energy				
10 - Jun	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1017410	20.03 TN	$1,061.59
		Reference: 004256466SKS Vehicle: BTI 104 Contract: 4204149337 Generator Name Au Energy				
12 - Jun	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1017820	6.87 TN	$364.11
		Reference: 006066948JJK Vehicle: PONDER 104 Contract: 4204149337 Generator Name Au Energy				
12 - Jun	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1017821	11.62 TN	$615.86
		Reference: 006066946JJK Vehicle: PONDER 120 Contract: 4204149337 Generator Name Au Energy				
12 - Jun	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1017822	9.37 TN	$496.61
		Reference: 006066950JJK Vehicle: PONDER 117 Contract: 4204149337 Generator Name Au Energy				
12 - Jun	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1017830	12.18 TN	$645.54
		Reference: 004256472SKS				

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PAGE	3
DATE	Jun-15-14
CUSTOMER NO.	889073
SITE NO.	
REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
12 - Jun	VA	Vehicle: BTI 104 Contract: 4204149337 Generator Name Au Energy SW-ASBESTOS-FRIABLE Reference: 004256480 SKS Vehicle: BTI 98 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1017888	22.19 TN	$1,176.07
12 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919630JJK Vehicle: SANTA 002 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1017953	16.50 TN	$874.50
12 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 004256481SKS Vehicle: BTI 106 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1017958	16.11 TN	$853.83
13 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 001919635JJK Vehicle: BTI 104 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1017978	13.42 TN	$711.26
13 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 006066949jjk Vehicle: PONDER 104	53.00	Y8-1017991	6.91 TN	$366.23

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PAGE	
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NS-042 (11/12)

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	0000041691
INVOICE NO.	4
PAGE	Jun-15-14
DATE	889073
CUSTOMER NO.	
SITE NO.	
REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
		Contract: 4204149337 Generator Name Au Energy				
13 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 006066947 Vehicle: PONDER 120 Contract: 4204149337	53.00	Y8-1017992	6.84 TN	$362.52
		Generator Name Au Energy				
13 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 006066951 Vehicle: PONDER 117 Contract: 4204149337	53.00	Y8-1017993	7.30 TN	$386.90
		Generator Name Au Energy				
13 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919632 JJK Vehicle: BTI 98 Contract: 4204149337	53.00	Y8-1018094	23.45 TN	$1,242.85
		Generator Name Au Energy				
13 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919617JJK Vehicle: BTI 104 Contract: 4204149337	53.00	Y8-1018145	10.39 TN	$550.67
		Generator Name Au Energy				
13 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919633JJK Vehicle: BTI 106 Contract: 4204149337	53.00	Y8-1018168	18.06 TN	$957.18

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0000041691

INVOICE NO.	5
PAGE	Jun-15-14
DATE	889073
CUSTOMER NO.	
SITE NO.	
REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
		Generator Name Au Energy				
15 - Jun	01	WASTE TAX at $21.48/TN on 303.49	0.00			$6,518.96
15 - Jun	02	SJ Cnty / AB 939 Fee at $2.00/TN on 303.49	0.00			$606.98
15 - Jun	03	SJ Cnty / Rd Mitigation Fee at $0.16/TN on 303.49	0.00			$48.56
		Material Summary				
	VA	SW-ASBESTOS-FRIABLE			303.49 TN	

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CURRENT	31 - 60 DAYS	61 - 90 DAYS	OVER 90 DAYS
$ 6,125.84	$ 76,607.81	$ 23,259.47	$ 0.00

TOTAL THIS INVOICE	$23,259.47
PLEASE PAY THIS AMOUNT	$105,993.12

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0000041691

INVOICE NO.	5
PAGE	Jun-15-14
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TO: SPARGER TECHNOLOGY, INC.
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3738 BRADVIEW DRIVE
SACRAMENTO, CA 95827

INVOICE NO.	0000041789
PAGE	1
DATE	Jun-30-14
CUSTOMER NO.	889073
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REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
16 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919629JJK/011919631JJK Vehicle: BTI 104 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1018381	18.63 TN	$987.39
17 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919628 JJK Vehicle: BTI 104 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1018651	14.07 TN	$745.71
20 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919634 JJK Vehicle: EIGHT 236 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1019375	22.62 TN	$1,198.86
20 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919627 JJK Vehicle: BTI 98 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1019383	23.74 TN	$1,258.22
20 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919623 JJK Vehicle: INTRIN303 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1019433	17.15 TN	$908.95
20 - Jun	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1019440	22.00 TN	$1,166.00

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SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
		Reference: 011919622 JJK Vehicle: SANTA 002 Contract: 4204149337 Generator Name Au Energy				
23 - Jun	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1019637	21.67 TN	$1,148.51
		Reference: 01191620JJK Vehicle: SANCHEZ 02 Contract: 4204149337 Generator Name Au Energy				
23 - Jun	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1019653	23.41 TN	$1,240.73
		Reference: 011919625 JJK Vehicle: BTI 98 Contract: 4204149337 Generator Name Au Energy				
23 - Jun	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1019667	21.76 TN	$1,153.28
		Reference: 011919614 JJK Vehicle: BTI 105 Contract: 4204149337 Generator Name Au Energy				
23 - Jun	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1019698	21.56 TN	$1,142.68
		Reference: 011919615 JJK Vehicle: INTRIN303 Contract: 4204149337 Generator Name Au Energy				
23 - Jun	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1019720	23.66 TN	$1,253.98
		Reference: 011919621jjk				

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REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
		Vehicle: EIGHT 198 Contract: 4204149337 Generator Name Au Energy				
23 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919616JJK Vehicle: BTI 101 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1019722	21.84 TN	$1,157.52
23 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919618 JJK Vehicle: BTI 107 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1019741	19.55 TN	$1,036.15
24 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919661JJK Vehicle: SANCHEZ 02 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1019812	23.07 TN	$1,222.71
24 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919662JJK Vehicle: PONDER 120 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1019916	8.11 TN	$429.83
24 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919663JJK Vehicle: PONDER 117	53.00	Y8-1019917	6.11 TN	$323.83

Account Status

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CURRENT	31 - 60 DAYS	61 - 90 DAYS	OVER 90 DAYS

TOTAL THIS INVOICE

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Please remit to:

INVOICE NO.	
PAGE	
DATE	
CUSTOMER NO.	
SITE NO.	
REFERENCE NO.	

REPUBLIC SERVICES
FORWARD, INC.
FILE 41265
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INVOICE

TO: SPARGER TECHNOLOGY, INC.
RAY JAMES
3738 BRADVIEW DRIVE
SACRAMENTO, CA 95827

INVOICE NO.	0000041789
PAGE	4
DATE	Jun-30-14
CUSTOMER NO.	889073
SITE NO.	
REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
24 - Jun	VA	Contract: 4204149337 Generator Name Au Energy SW-ASBESTOS-FRIABLE Reference: 011919686JJK Vehicle: EIGHT 198 Contract: 4204149337	53.00	Y8-1019930	22.67 TN	$1,201.51
24 - Jun	VA	Generator Name Au Energy SW-ASBESTOS-FRIABLE Reference: 011919685 JJK Vehicle: EIGHT 198 Contract: 4204149337	53.00	Y8-1019964	22.30 TN	$1,181.90
24 - Jun	VA	Generator Name Au Energy SW-ASBESTOS-FRIABLE Reference: 011919683 JJK Vehicle: BMT 353 Contract: 4204149337	53.00	Y8-1019990	15.19 TN	$805.07
24 - Jun	VA	Generator Name Au Energy SW-ASBESTOS-FRIABLE Reference: 011919684 JJK Vehicle: EIGHT 203 Contract: 4204149337	53.00	Y8-1020000	17.02 TN	$902.06
24 - Jun	VA	Generator Name Au Energy SW-ASBESTOS-FRIABLE Reference: 011919682 JJK Vehicle: H & J 07 Contract: 4204149337	53.00	Y8-1020012	16.30 TN	$863.90

Account Status

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Please remit to:

INVOICE NO.	
PAGE	
DATE	
CUSTOMER NO.	
SITE NO.	
REFERENCE NO.	

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FILE 41265
LOS ANGELES, CA 90074-1265

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0000041789

INVOICE NO.	5
PAGE	Jun-30-14
DATE	889073
CUSTOMER NO.	
SITE NO.	
REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
24 - Jun	VA	Generator Name Au Energy SW-ASBESTOS-FRIABLE Reference: 011919681 JJK Vehicle: J & G 05 Contract: 4204149337	53.00	Y8-1020025	17.24 TN	$913.72
24 - Jun	VA	Generator Name Au Energy SW-ASBESTOS-FRIABLE Reference: 011919680JJK Vehicle: EIGHT 198 Contract: 4204149337	53.00	Y8-1020042	22.74 TN	$1,205.22
24 - Jun	VA	Generator Name Au Energy SW-ASBESTOS-FRIABLE Reference: 011919679JJK Vehicle: EIGHT 56 Contract: 4204149337	53.00	Y8-1020053	15.61 TN	$827.33
25 - Jun	VA	Generator Name Au Energy SW-ASBESTOS-FRIABLE Reference: 011919676JJK Vehicle: EIGHT 198 Contract: 4204149337	53.00	Y8-1020097	18.33 TN	$971.49
25 - Jun	VA	Generator Name Au Energy SW-ASBESTOS-FRIABLE Reference: MULTIPLE Vehicle: PONDER 117 Contract: 4204149337	53.00	Y8-1020146	15.59 TN	$826.27

Account Status

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Please remit to:

INVOICE NO.	
PAGE	
DATE	
CUSTOMER NO.	
SITE NO.	
REFERENCE NO.	

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FILE 41265
LOS ANGELES, CA 90074-1265

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0000041789

INVOICE NO.	6
PAGE	Jun-30-14
DATE	889073
CUSTOMER NO.	
SITE NO.	
REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
25 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919675 JJK Vehicle: EIGHT 236 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1020202	23.88 TN	$1,265.64
25 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919674JJK Vehicle: EIGHT 203 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1020234	19.97 TN	$1,058.41
25 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919673 JJK Vehicle: EIGHT 198 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1020283	16.71 TN	$885.63
25 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919672 JJK Vehicle: H & J 07 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1020309	17.11 TN	$906.83
26 - Jun	VA	SW-ASBESTOS-FRIABLE Reference: 011919671 JJK Vehicle: EIGHT 236 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1020513	22.90 TN	$1,213.70
26 - Jun	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1020523	17.45 TN	$924.85

Account Status

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INVOICE NO.	
PAGE	
DATE	
CUSTOMER NO.	
SITE NO.	
REFERENCE NO.	

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INVOICE NO.	0000041789
PAGE	7
DATE	Jun-30-14
CUSTOMER NO.	889073
SITE NO.	
REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
		Reference: 011919670 JJK				
		Vehicle: EIGHT 198				
		Contract: 4204149337				
		Generator Name Au Energy				
30 - Jun	01	WASTE TAX at $21.48/TN on 609.96	0.00			$13,101.92
30 - Jun	02	SJ Cnty / AB 939 Fee at $2.00/TN on 609.96	0.00			$1,219.92
30 - Jun	03	SJ Cnty / Rd Mitigation Fee at $0.16/TN on 609.96	0.00			$97.60
		Material Summary				
	VA	SW-ASBESTOS-FRIABLE			609.96 TN	

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CURRENT	31 - 60 DAYS	61 - 90 DAYS	OVER 90 DAYS
$ 6,125.84	$ 76,607.81	$ 23,259.47	$ 0.00

TOTAL THIS INVOICE	$46,747.32
PLEASE PAY THIS AMOUNT	$105,993.12

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INVOICE NO.	0000041789
PAGE	7
DATE	Jun-30-14
CUSTOMER NO.	889073
SITE NO.	
REFERENCE NO.	

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0000041871

INVOICE NO.	1
PAGE	
DATE	Jul-15-14
CUSTOMER NO.	889073
SITE NO.	
REFERENCE NO.	

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SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
03 - Jul	VA	SW-ASBESTOS-FRIABLE Reference: 011919692 JJK Vehicle: EIGHT 198 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1021834	20.92 TN	$1,108.76
03 - Jul	VA	SW-ASBESTOS-FRIABLE Reference: 011919693 JJK Vehicle: EIGHT 241 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1021835	20.93 TN	$1,109.29
03 - Jul	VA	SW-ASBESTOS-FRIABLE Reference: 011919690 JJK Vehicle: SINGH 198 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1021864	21.34 TN	$1,131.02
03 - Jul	VA	SW-ASBESTOS-FRIABLE Reference: 011919689 JJK Vehicle: CHAHAL 175 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1021879	19.96 TN	$1,057.88
03 - Jul	VA	SW-ASBESTOS-FRIABLE Reference: 011919688 JJK Vehicle: SINGH 9 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1021888	21.39 TN	$1,133.67
03 - Jul	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1021892	17.87 TN	$947.11

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Please remit to:

INVOICE NO.	
PAGE	
DATE	
CUSTOMER NO.	
SITE NO.	
REFERENCE NO.	

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FILE 41265
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0000041871
INVOICE NO. 2
PAGE
DATE Jul-15-14
CUSTOMER NO. 889073
SITE NO.
REFERENCE NO.

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
		Reference: 011919691 JJK Vehicle: EIGHT 56 Contract: 4204149337 Generator Name Au Energy				
03 - Jul	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1021908	20.91 TN	$1,108.23
		Reference: 011919687JJK Vehicle: SINGH 7 Contract: 4204149337 Generator Name Au Energy				
03 - Jul	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1021923	18.16 TN	$962.48
		Reference: 011919668 JJK Vehicle: EIGHT 241 Contract: 4204149337 Generator Name Au Energy				
03 - Jul	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1021926	19.62 TN	$1,039.86
		Reference: 011919667 JJK Vehicle: EIGHT 198 Contract: 4204149337 Generator Name Au Energy				
03 - Jul	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1021928	16.76 TN	$888.28
		Reference: 011919669 JJK Vehicle: EIGHT 203 Contract: 4204149337 Generator Name Au Energy				
07 - Jul	VA	SW-ASBESTOS-FRIABLE	53.00	Y8-1022206	16.52 TN	$875.56
		Reference: 0011919700JJK				

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INVOICE NO.
PAGE
DATE
CUSTOMER NO.
SITE NO.
REFERENCE NO.

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INVOICE NO.	0000041871
PAGE	3
DATE	Jul-15-14
CUSTOMER NO.	889073
SITE NO.	
REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
		Vehicle: EIGHT 241 Contract: 4204149337 Generator Name Au Energy				
07 - Jul	VA	SW-ASBESTOS-FRIABLE Reference: 01191969JJK	53.00	Y8-1022219	17.19 TN	$911.07
		Vehicle: EIGHT 236 Contract: 4204149337 Generator Name Au Energy				
07 - Jul	VA	SW-ASBESTOS-FRIABLE Reference: 011919697JJK	53.00	Y8-1022237	18.20 TN	$964.60
		Vehicle: EIGHT 198 Contract: 4204149337 Generator Name Au Energy				
07 - Jul	VA	SW-ASBESTOS-FRIABLE Reference: 011919698JJK	53.00	Y8-1022238	15.53 TN	$823.09
		Vehicle: EIGHT 242 Contract: 4204149337 Generator Name Au Energy				
07 - Jul	VA	SW-ASBESTOS-FRIABLE Reference: 011919696JJK	53.00	Y8-1022244	18.31 TN	$970.43
		Vehicle: MARTIN 140 Contract: 4204149337 Generator Name Au Energy				
07 - Jul	VA	SW-ASBESTOS-FRIABLE Reference: 011919694 JJK	53.00	Y8-1022301	19.50 TN	$1,033.50
		Vehicle: SINGH 7				

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Please remit to:

INVOICE NO.	
PAGE	
DATE	
CUSTOMER NO.	
SITE NO.	
REFERENCE NO.	

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INVOICE NO.	4
PAGE	Jul-15-14
DATE	889073
CUSTOMER NO.	
SITE NO.	
REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
07 - Jul	VA	Contract: 4204149337 Generator Name Au Energy SW-ASBESTOS-FRIABLE Reference: 011919664 JJK Vehicle: EIGHT 241 Contract: 4204149337	53.00	Y8-1022303	21.06 TN	$1,116.18
07 - Jul	VA	Generator Name Au Energy SW-ASBESTOS-FRIABLE Reference: 011919665jjk Vehicle: EIGHT 236 Contract: 4204149337	53.00	Y8-1022310	17.12 TN	$907.36
07 - Jul	VA	Generator Name Au Energy SW-ASBESTOS-FRIABLE Reference: 011919666JJK Vehicle: EIGHT 203 Contract: 4204149337	53.00	Y8-1022331	19.86 TN	$1,052.58
08 - Jul	VA	Generator Name Au Energy SW-ASBESTOS-FRIABLE Reference: 011919695JJK Vehicle: BARZA 56 Contract: 4204149337	53.00	Y8-1022409	18.49 TN	$979.97
09 - Jul	VA	Generator Name Au Energy SW-ASBESTOS-FRIABLE Reference: 011919624 JJK Vehicle: VP 3 Contract: 4204149337	53.00	Y8-1022906	9.98 TN	$528.94

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Please remit to:

INVOICE NO.	
PAGE	
DATE	
CUSTOMER NO.	
SITE NO.	
REFERENCE NO.	

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INVOICE NO.	5
PAGE	Jul-15-14
DATE	889073
CUSTOMER NO.	
SITE NO.	
REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
		Generator Name Au Energy				
15 - Jul	01	WASTE TAX at $21.48/TN on 389.62	0.00			$8,369.05 ✓
15 - Jul	02	SJ Cnty / AB 939 Fee at $2.00/TN on 389.62	0.00			$779.24 ✓
15 - Jul	03	SJ Cnty / Rd Mitigation Fee at $0.16/TN on 389.62	0.00			$62.34 ✓
		Material Summary				
	VA	SW-ASBESTOS-FRIABLE			389.62 TN ✓	

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$ 6,125.84	$ 76,607.81	$ 23,259.47	$ 0.00

TOTAL THIS INVOICE	$29,860.49
PLEASE PAY THIS AMOUNT	$105,993.12

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INVOICE NO.	5
PAGE	Jul-15-14
DATE	889073
CUSTOMER NO.	
SITE NO.	
REFERENCE NO.	

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FILE 41265
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0000041983

INVOICE NO.	1
PAGE	Jul-31-14
DATE	889073
CUSTOMER NO.	
SITE NO.	
REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
23 - Jul	VA	SW-ASBESTOS-FRIABLE Reference: 011919701JJK Vehicle: EIGHT 241 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1025154	17.08 TN	$905.24
23 - Jul	VA	SW-ASBESTOS-FRIABLE Reference: 011919702JJK Vehicle: EIGHT 236 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1025160	16.44 TN	$871.32
23 - Jul	VA	SW-ASBESTOS-FRIABLE Reference: 011919703 JJK Vehicle: EIGHT 198 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1025179	17.29 TN	$916.37
23 - Jul	VA	SW-ASBESTOS-FRIABLE Reference: 011919704 JJK Vehicle: J & G 05 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1025197	14.33 TN	$759.49
23 - Jul	VA	SW-ASBESTOS-FRIABLE Reference: 011919705 JJK Vehicle: BARZA 56 Contract: 4204149337 Generator Name Au Energy	53.00	Y8-1025241	14.79 TN	$783.87
31 - Jul	01	WASTE TAX at $21.48/TN on 79.93	0.00			$1,716.90

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Please remit to:

INVOICE NO.	
PAGE	
DATE	
CUSTOMER NO.	
SITE NO.	
REFERENCE NO.	

REPUBLIC SERVICES
FORWARD, INC.
FILE 41265
LOS ANGELES, CA 90074-1265

AMOUNT OF REMITTANCE

PLEASE RETURN THIS PORTION WITH REMITTANCE

REMARKS

FORWARD INCORPORATED
A REPUBLIC SERVICES COMPANY
1145 WEST CHARTER WAY • STOCKTON, CA 95206
Ph 209-466-4482 • 800-204-4242 • Fx 209-466-1067

INVOICE

TO: SPARGER TECHNOLOGY, INC.
RAY JAMES
3738 BRADVIEW DRIVE
SACRAMENTO, CA 95827

INVOICE NO.	0000041983
PAGE	2
DATE	Jul-31-14
CUSTOMER NO.	889073
SITE NO.	
REFERENCE NO.	

SERVICE DATE	CODE	DESCRIPTION	RATE	REFERENCE	QTY.	AMOUNT
31 - Jul	02	SJ Cnty / AB 939 Fee at $2.00/TN on 79.93	0.00			$159.86
31 - Jul	03	SJ Cnty / Rd Mitigation Fee at $0.16/TN on 79.93	0.00			$12.79
		Material Summary				
	VA	SW-ASBESTOS-FRIABLE			79.93 TN	

Account Status

Payment due upon receipt of this invoice. 1.5% per month (18% per annum) late charge on balances over 30 days from date of invoice. Payments received after invoice date are not reflected. To ensure proper credit, please include your account number on your check and include the bottom portion of this invoice. When making payment on multiple accounts, please include the account numbers and the amounts of payment.

CURRENT	31 - 60 DAYS	61 - 90 DAYS	OVER 90 DAYS
$ 6,125.84	$ 76,607.81	$ 23,259.47	$ 0.00

TOTAL THIS INVOICE	$6,125.84
PLEASE PAY THIS AMOUNT	$105,993.12

We reserve the right to suspend service without notice on any past due account.

INVOICE NO.	0000041983
PAGE	2
DATE	Jul-31-14
CUSTOMER NO.	889073
SITE NO.	
REFERENCE NO.	

Please remit to:

REPUBLIC SERVICES
FORWARD, INC.
FILE 41265
LOS ANGELES, CA 90074-1265

AMOUNT OF REMITTANCE

PLEASE RETURN THIS PORTION WITH REMITTANCE

REMARKS

IMPORTANT!!! To ensure your payment is posted to the correct invoice, we need the torn remittance from the last page (which includes the invoice #)
Thank you.

NS-042 (11/12)

102-2120-10

Dave P9

Sparger Technology, Inc.
3738 Bradview Dr.
Sacramento, CA 95827
U.S A.

Voice: 916 369-7688
Fax: 916 369-7689

Invoice

Invoice Number: 20926A

Invoice Date: Aug 10, 2014

Page: 1

Sold To:
Au Energy
4185 Albrae Street
Fremont, CA 94538
USA

Ship to:
Au Energy
4185 Albrae Street
Fremont, CA 94538
USA

Customer ID	Customer PO	Payment Terms	
Au Energy	1800 Powell Shell	See Due Date; 1.5%/mo. finance	
Sales Rep ID	**Shipping Method**	**Ship Date**	**Due Date**
James,RL	NO SHIPPING		8/25/14

Quantity	Item	Description	Unit Price	Extension
		ATTN: John Ellis Project Name: 1800 Powell St. Emeryville Shell-Trucking & Disposal **********		
1.00	Transporation	Trucking Transportation Soil-Asbesto & TPH Forward Landfill 05/30/14 to 07/23/14	61,878.05	61,878.05
1.00	Bin Rental	20 yd Bins-Ponder Envr. 06/09/14 to 06/24/14	21,222.68	21,222.68
1.00	Disposal	Asbestos & TPH Disposal-Forward Landfill 06/09/14 to 07/23/14	84,293.85	84,293.85
15.00	Irucking	Truck Scheduling, Coordination, and Tonnage Review	75.00	1,125.00
3.00	Manifest	Manifest Coordination & Review	75.00	225.00
7.00	Ionnage Report	Landfill Tonnage Report Review	75.00	525.00

RECEIVED
AUG 27 2014
BY: .....

Subtotal	169,269.58
Sales Tax	
Total Invoice Amount	169,269.58
Payment Received	
TOTAL	169,269.58

Check No:

PAID
SEP 04 2014
BY: AU # 71167

Accrued P8 8/13/14

102-2120-10

Sparger Technology, Inc.
3738 Bradview Dr.
Sacramento, CA 95827
U.S.A.

Voice: 916 369-7688
Fax: 916 369-7689

Invoice

Invoice Number: 20926A

Invoice Date: Aug 10, 2014

Page: 1

Sold To:
Au Energy
4185 Albrae Street
Fremont, CA 94538
USA

Ship to:
Au Energy
4185 Albrae Street
Fremont, CA 94538
USA

Customer ID	Customer PO	Payment Terms	
Au Energy	1800 Powell Shell	See Due Date; 1.5%/mo. finance	
Sales Rep ID	**Shipping Method**	**Ship Date**	**Due Date**
James,RL	NO SHIPPING		8/25/14

Quantity	Item	Description	Unit Price	Extension
		ATTN: John Ellis Project Name: 1800 Powell St. Emeryville Shell-Trucking & Disposal **********		
1.00	Transporation	Trucking Iransportation Soil-Asbesto & IPH Forward Landfill 05/30/14 to 07/23/14	61,878.05	61,878 05
1.00	Bin Rental	20 yd Bins-Ponder Envr. 06/09/14 to 06/24/14	21,222.68	21,222.68
1.00	Disposal	Asbestos & IPH Disposal-Forward Landfill 06/09/14 to 07/23/14	121,892.09	121,892.09
15.00	Trucking	Truck Scheduling, Coordination, and Tonnage Review	75.00	1,125 00
3.00	Manifest	Manifest Coordination & Set-up	75.00	225.00
5 00	Tonnage Report	Landfill Tonnage Report Review	75.00	375.00

RECEIVED
AUG 11 2014
BY:

Subtotal	206,717 82
Sales Tax	
Total Invoice Amount	206,717.82
Payment Received	
TOTAL	206,717.82

Check No:

1x1P

(37,448.24)

$169,269.58

All Ticket Types
History and Waiting

Detail Contract Activity Report

June 06, 2014 to August 04, 2014

Specific Contract: 4204149337

(14)

All Facilities

1800 Powell St., Emeryville

4204149337

Ticket Date	Facility & Ticket Number	Customer	Truck	Material	Contract Rate	Billing Quantity	Ordered Quantity	Minimum Quantity	Maximum Quantity	Material Total	Tax Total	Total
06/09/2014 I	Y8 1017190	889073 - SPARGER TECHNOLOGY, II	PONDER 1	SW-ASBESTOS-FRIABI	53.00 F	19.71 TN	0.00	$0.00	$0.00	$1,044.63	$465.94	$1,510.57
06/09/2014 I	Y8 1017207	889073 - SPARGER TECHNOLOGY, II	PONDER 1	SW-ASBESTOS-FRIABI	53.00 F	19.73 TN	0.00	$0.00	$0.00	$1,045.69	$466.42	$1,512.11
06/10/2014 I	Y8 1017276	889073 - SPARGER TECHNOLOGY, II	PONDER 1	SW-ASBESTOS-FRIABI	53.00 F	13.73 TN	0.00	$0.00	$0.00	$727.69	$324.58	$1,052.27
06/10/2014 I	Y8 1017309	889073 - SPARGER TECHNOLOGY, II	PONDER 1	SW-ASBESTOS-FRIABI	53.00 F	18.80 TN	0.00	$0.00	$0.00	$996.40	$444.43	$1,440.83
06/10/2014 I	Y8 1017317	889073 - SPARGER TECHNOLOGY, II	PONDER 1	SW-ASBESTOS-FRIABI	53.00 F	17.19 TN	0.00	$0.00	$0.00	$911.07	$406.37	$1,317.44
06/09/2014 I	Y8 1017320	889073 - SPARGER TECHNOLOGY, II	PONDER 1	SW-ASBESTOS-FRIABI	53.00 F	13.09 TN	0.00	$0.00	$0.00	$693.77	$309.44	$1,003.21
06/10/2014 I	Y8 1017410	889073 - SPARGER TECHNOLOGY, II	BTI 104	SW-ASBESTOS-FRIABI	53.00 F	20.03 TN	0.00	$0.00	$0.00	$1,061.59	$473.50	$1,535.09
06/12/2014 I	Y8 1017820	889073 - SPARGER TECHNOLOGY, II	PONDER 1	SW-ASBESTOS-FRIABI	53.00 F	6.87 TN	0.00	$0.00	$0.00	$364.11	$162.41	$526.52
06/12/2014 I	Y8 1017821	889073 - SPARGER TECHNOLOGY, II	PONDER 1	SW-ASBESTOS-FRIABI	53.00 F	11.62 TN	0.00	$0.00	$0.00	$615.86	$274.70	$890.56
06/12/2014 I	Y8 1017822	889073 - SPARGER TECHNOLOGY, II	PONDER 1	SW-ASBESTOS-FRIABI	53.00 F	9.37 TN	0.00	$0.00	$0.00	$496.61	$221.51	$718.12
06/12/2014 I	Y8 1017830	889073 - SPARGER TECHNOLOGY, II	BTI 104	SW-ASBESTOS-FRIABI	53.00 F	12.18 TN	0.00	$0.00	$0.00	$645.54	$287.94	$933.48
06/12/2014 I	Y8 1017888	889073 - SPARGER TECHNOLOGY, II	BTI 98	SW-ASBESTOS-FRIABI	53.00 F	22.19 TN	0.00	$0.00	$0.00	$1,176.07	$524.57	$1,700.64
06/12/2014 I	Y8 1017953	889073 - SPARGER TECHNOLOGY, II	SANTA 00:	SW-ASBESTOS-FRIABI	53.00 F	16.50 TN	0.00	$0.00	$0.00	$874.50	$390.06	$1,264.56
06/12/2014 I	Y8 1017958	889073 - SPARGER TECHNOLOGY, II	BTI 106	SW-ASBESTOS-FRIABI	53.00 F	16.11 TN	0.00	$0.00	$0.00	$853.83	$380.84	$1,234.67
06/13/2014 I	Y8 1017978	889073 - SPARGER TECHNOLOGY, II	BTI 104	SW-ASBESTOS-FRIABI	53.00 F	13.42 TN	0.00	$0.00	$0.00	$711.26	$317.25	$1,028.51
06/13/2014 I	Y8 1017991	889073 - SPARGER TECHNOLOGY, II	PONDER 1	SW-ASBESTOS-FRIABI	53.00 F	6.91 TN	0.00	$0.00	$0.00	$366.23	$163.36	$529.59
06/13/2014 I	Y8 1017992	889073 - SPARGER TECHNOLOGY, II	PONDER 1	SW-ASBESTOS-FRIABI	53.00 F	6.84 TN	0.00	$0.00	$0.00	$362.52	$161.69	$524.21
06/13/2014 I	Y8 1017993	889073 - SPARGER TECHNOLOGY, II	PONDER 1	SW-ASBESTOS-FRIABI	53.00 F	7.30 TN	0.00	$0.00	$0.00	$386.90	$172.57	$559.47
06/13/2014 I	Y8 1018094	889073 - SPARGER TECHNOLOGY, II	BTI 98	SW-ASBESTOS-FRIABI	53.00 F	23.45 TN	0.00	$0.00	$0.00	$1,242.85	$554.36	$1,797.21
06/13/2014 I	Y8 1018145	889073 - SPARGER TECHNOLOGY, II	BTI 104	SW-ASBESTOS-FRIABI	53.00 F	10.39 TN	0.00	$0.00	$0.00	$550.67	$245.62	$796.29
06/13/2014 I	Y8 1018168	889073 - SPARGER TECHNOLOGY, II	BTI 106	SW-ASBESTOS-FRIABI	53.00 F	18.06 TN	0.00	$0.00	$0.00	$957.18	$426.94	$1,384.12
06/16/2014 I	Y8 1018381	889073 - SPARGER TECHNOLOGY, II	BTI 104	SW-ASBESTOS-FRIABI	53.00 F	18.63 TN	0.00	$0.00	$0.00	$987.39	$440.41	$1,427.80
06/17/2014 I	Y8 1018651	889073 - SPARGER TECHNOLOGY, II	BTI 104	SW-ASBESTOS-FRIABI	53.00 F	14.07 TN	0.00	$0.00	$0.00	$745.71	$332.61	$1,078.32
06/20/2014 I	Y8 1019375	889073 - SPARGER TECHNOLOGY, II	EIGHT 236	SW-ASBESTOS-FRIABI	53.00 F	22.62 TN	0.00	$0.00	$0.00	$1,198.86	$534.74	$1,733.60
06/20/2014 I	Y8 1019383	889073 - SPARGER TECHNOLOGY, II	BTI 98	SW-ASBESTOS-FRIABI	53.00 F	23.74 TN	0.00	$0.00	$0.00	$1,258.22	$561.22	$1,819.44
06/20/2014 I	Y8 1019433	889073 - SPARGER TECHNOLOGY, II	INTRIN30:	SW-ASBESTOS-FRIABI	53.00 F	17.15 TN	0.00	$0.00	$0.00	$908.95	$405.42	$1,314.37
06/20/2014 I	Y8 1019440	889073 - SPARGER TECHNOLOGY, II	SANTA 00:	SW-ASBESTOS-FRIABI	53.00 F	22.00 TN	0.00	$0.00	$0.00	$1,166.00	$520.08	$1,686.08
06/23/2014 I	Y8 1019637	889073 - SPARGER TECHNOLOGY, II	SANCHEZ (	SW-ASBESTOS-FRIABI	53.00 F	21.67 TN	0.00	$0.00	$0.00	$1,148.51	$512.28	$1,660.79
06/23/2014 I	Y8 1019653	889073 - SPARGER TECHNOLOGY, II	BTI 98	SW-ASBESTOS-FRIABI	53.00 F	23.41 TN	0.00	$0.00	$0.00	$1,240.73	$553.42	$1,794.15
06/23/2014 I	Y8 1019667	889073 - SPARGER TECHNOLOGY, II	BTI 105	SW-ASBESTOS-FRIABI	53.00 F	21.76 TN	0.00	$0.00	$0.00	$1,153.28	$514.40	$1,667.68
06/23/2014 I	Y8 1019698	889073 - SPARGER TECHNOLOGY, II	INTRIN30:	SW-ASBESTOS-FRIABI	53.00 F	21.56 TN	0.00	$0.00	$0.00	$1,142.68	$509.68	$1,652.36
06/23/2014 I	Y8 1019720	889073 - SPARGER TECHNOLOGY, II	EIGHT 198	SW-ASBESTOS-FRIABI	53.00 F	23.66 TN	0.00	$0.00	$0.00	$1,253.98	$559.33	$1,813.31
06/23/2014 I	Y8 1019722	889073 - SPARGER TECHNOLOGY, II	BTI 101	SW-ASBESTOS-FRIABI	53.00 F	21.84 TN	0.00	$0.00	$0.00	$1,157.52	$516.29	$1,673.81
06/23/2014 I	Y8 1019741	889073 - SPARGER TECHNOLOGY, II	BTI 107	SW-ASBESTOS-FRIABI	53.00 F	19.55 TN	0.00	$0.00	$0.00	$1,036.15	$462.16	$1,498.31
06/24/2014 I	Y8 1019812	889073 - SPARGER TECHNOLOGY, II	SANCHEZ (	SW-ASBESTOS-FRIABI	53.00 F	23.07 TN	0.00	$0.00	$0.00	$1,222.71	$545.37	$1,768.08
06/24/2014 I	Y8 1019916	889073 - SPARGER TECHNOLOGY, II	PONDER 1	SW-ASBESTOS-FRIABI	53.00 F	8.11 TN	0.00	$0.00	$0.00	$429.83	$191.72	$621.55
06/24/2014 I	Y8 1019917	889073 - SPARGER TECHNOLOGY, II	PONDER 1	SW-ASBESTOS-FRIABI	53.00 F	6.11 TN	0.00	$0.00	$0.00	$323.83	$144.44	$468.27
06/24/2014 I	Y8 1019930	889073 - SPARGER TECHNOLOGY, II	EIGHT 198	SW-ASBESTOS-FRIABI	53.00 F	22.67 TN	0.00	$0.00	$0.00	$1,201.51	$535.92	$1,737.43
06/24/2014 I	Y8 1019964	889073 - SPARGER TECHNOLOGY, II	EIGHT 198	SW-ASBESTOS-FRIABI	53.00 F	22.30 TN	0.00	$0.00	$0.00	$1,181.90	$527.17	$1,709.07

o = CHF 73 8/4/14

1800 Fourth St. Emeryville (15)

All Ticket Types
History and Waiting

Detail Contract Activity Report

June 06, 2014 to August 04, 2014
Specific Contract: 4204149337

All Facilities

06/24/2014 I	Y8	1019990	889073 - SPARGER TECHNOLOGY, II	BMT 353	SW-ASBESTOS-FRIABI	53.00	F	15.19	TN	✓	0.00	$0.00	$0.00	$805.07	$359.09	$1,164.16
06/24/2014 I	Y8	1020000	889073 - SPARGER TECHNOLOGY, II	EIGHT 203	SW-ASBESTOS-FRIABI	53.00	F	17.02	TN	✓	0.00	$0.00	$0.00	$902.06	$402.35	$1,304.41
06/24/2014 I	Y8	1020012	889073 - SPARGER TECHNOLOGY, II	H & J 07	SW-ASBESTOS-FRIABI	53.00	F	16.30	TN	✓	0.00	$0.00	$0.00	$863.90	$385.33	$1,249.23
06/24/2014 I	Y8	1020025	889073 - SPARGER TECHNOLOGY, II	J & G 05	SW-ASBESTOS-FRIABI	53.00	F	17.24	TN	✓	0.00	$0.00	$0.00	$913.72	$407.56	$1,321.28
06/24/2014 I	Y8	1020042	889073 - SPARGER TECHNOLOGY, II	EIGHT 198	SW-ASBESTOS-FRIABI	53.00	F	22.74	TN	✓	0.00	$0.00	$0.00	$1,205.22	$537.58	$1,742.80
06/24/2014 I	Y8	1020053	889073 - SPARGER TECHNOLOGY, II	EIGHT 56	SW-ASBESTOS-FRIABI	53.00	F	15.61	TN	✓	0.00	$0.00	$0.00	$827.33	$369.02	$1,196.35
06/25/2014 I	Y8	1020097	889073 - SPARGER TECHNOLOGY, II	EIGHT 198	SW-ASBESTOS-FRIABI	53.00	F	18.33	TN	✓	0.00	$0.00	$0.00	$971.49	$433.32	$1,404.81
06/25/2014 I	Y8	1020146	889073 - SPARGER TECHNOLOGY, II	PONDER 1	SW-ASBESTOS-FRIABI	53.00	F	15.59	TN	✓	0.00	$0.00	$0.00	$826.27	$368.54	$1,194.81
06/25/2014 I	Y8	1020202	889073 - SPARGER TECHNOLOGY, II	EIGHT 236	SW-ASBESTOS-FRIABI	53.00	F	23.88	TN	✓	0.00	$0.00	$0.00	$1,265.64	$564.52	$1,830.16
06/25/2014 I	Y8	1020234	889073 - SPARGER TECHNOLOGY, II	EIGHT 203	SW-ASBESTOS-FRIABI	53.00	F	19.97	TN	✓	0.00	$0.00	$0.00	$1,058.41	$472.10	$1,530.51
06/25/2014 I	Y8	1020283	889073 - SPARGER TECHNOLOGY, II	EIGHT 198	SW-ASBESTOS-FRIABI	53.00	F	16.71	TN	✓	0.00	$0.00	$0.00	$885.63	$395.02	$1,280.65
06/25/2014 I	Y8	1020309	889073 - SPARGER TECHNOLOGY, II	H & J 07	SW-ASBESTOS-FRIABI	53.00	F	17.11	TN	✓	0.00	$0.00	$0.00	$906.83	$404.48	$1,311.31
06/26/2014 I	Y8	1020513	889073 - SPARGER TECHNOLOGY, II	EIGHT 236	SW-ASBESTOS-FRIABI	53.00	F	22.90	TN	✓	0.00	$0.00	$0.00	$1,213.70	$541.35	$1,755.05
06/26/2014 I	Y8	1020523	889073 - SPARGER TECHNOLOGY, II	EIGHT 198	SW-ASBESTOS-FRIABI	53.00	F	17.45	TN	✓	0.00	$0.00	$0.00	$924.85	$412.52	$1,337.37
07/03/2014 I	Y8	1021834	889073 - SPARGER TECHNOLOGY, II	EIGHT 198	SW-ASBESTOS-FRIABI	53.00	F	20.92	TN	✓	0.00	$0.00	$0.00	$1,108.76	$494.55	$1,603.31
07/03/2014 I	Y8	1021835	889073 - SPARGER TECHNOLOGY, II	EIGHT 241	SW-ASBESTOS-FRIABI	53.00	F	20.93	TN	✓	0.00	$0.00	$0.00	$1,109.29	$494.79	$1,604.08
07/03/2014 I	Y8	1021864	889073 - SPARGER TECHNOLOGY, II	SINGH 198	SW-ASBESTOS-FRIABI	53.00	F	21.34	TN	✓	0.00	$0.00	$0.00	$1,131.02	$504.47	$1,635.49
07/03/2014 I	Y8	1021879	889073 - SPARGER TECHNOLOGY, II	CHAHAL 1	SW-ASBESTOS-FRIABI	53.00	F	19.96	TN	✓	0.00	$0.00	$0.00	$1,057.88	$471.85	$1,529.73
07/03/2014 I	Y8	1021888	889073 - SPARGER TECHNOLOGY, II	SINGH 9	SW-ASBESTOS-FRIABI	53.00	F	21.39	TN	✓	0.00	$0.00	$0.00	$1,133.67	$505.66	$1,639.33
07/03/2014 I	Y8	1021892	889073 - SPARGER TECHNOLOGY, II	EIGHT 56	SW-ASBESTOS-FRIABI	53.00	F	17.87	TN	✓	0.00	$0.00	$0.00	$947.11	$422.45	$1,369.56
07/03/2014 I	Y8	1021908	889073 - SPARGER TECHNOLOGY, II	SINGH 7	SW-ASBESTOS-FRIABI	53.00	F	20.91	TN	✓	0.00	$0.00	$0.00	$1,108.23	$494.32	$1,602.55
07/03/2014 I	Y8	1021923	889073 - SPARGER TECHNOLOGY, II	EIGHT 241	SW-ASBESTOS-FRIABI	53.00	F	18.16	TN	✓	0.00	$0.00	$0.00	$962.48	$429.31	$1,391.79
07/03/2014 I	Y8	1021926	889073 - SPARGER TECHNOLOGY, II	EIGHT 198	SW-ASBESTOS-FRIABI	53.00	F	19.62	TN	✓	0.00	$0.00	$0.00	$1,039.86	$463.82	$1,503.68
07/03/2014 I	Y8	1021928	889073 - SPARGER TECHNOLOGY, II	EIGHT 203	SW-ASBESTOS-FRIABI	53.00	F	16.76	TN	✓	0.00	$0.00	$0.00	$888.28	$396.20	$1,284.48
07/07/2014 I	Y8	1022206	889073 - SPARGER TECHNOLOGY, II	EIGHT 241	SW-ASBESTOS-FRIABI	53.00	F	16.52	TN	✓	0.00	$0.00	$0.00	$875.56	$390.53	$1,266.09
07/07/2014 I	Y8	1022219	889073 - SPARGER TECHNOLOGY, II	EIGHT 236	SW-ASBESTOS-FRIABI	53.00	F	17.19	TN	✓	0.00	$0.00	$0.00	$911.07	$406.37	$1,317.44
07/07/2014 I	Y8	1022237	889073 - SPARGER TECHNOLOGY, II	EIGHT 198	SW-ASBESTOS-FRIABI	53.00	F	18.20	TN	✓	0.00	$0.00	$0.00	$964.60	$430.25	$1,394.85
07/07/2014 I	Y8	1022238	889073 - SPARGER TECHNOLOGY, II	EIGHT 242	SW-ASBESTOS-FRIABI	53.00	F	15.53	TN	✓	0.00	$0.00	$0.00	$823.09	$367.12	$1,190.21
07/07/2014 I	Y8	1022244	889073 - SPARGER TECHNOLOGY, II	MARTIN 1	SW-ASBESTOS-FRIABI	53.00	F	18.31	TN	✓	0.00	$0.00	$0.00	$970.43	$432.85	$1,403.28
07/07/2014 I	Y8	1022301	889073 - SPARGER TECHNOLOGY, II	SINGH 7	SW-ASBESTOS-FRIABI	53.00	F	19.50	TN	✓	0.00	$0.00	$0.00	$1,033.50	$460.98	$1,494.48
07/07/2014 I	Y8	1022303	889073 - SPARGER TECHNOLOGY, II	EIGHT 241	SW-ASBESTOS-FRIABI	53.00	F	21.06	TN	✓	0.00	$0.00	$0.00	$1,116.18	$497.86	$1,614.04
07/07/2014 I	Y8	1022310	889073 - SPARGER TECHNOLOGY, II	EIGHT 236	SW-ASBESTOS-FRIABI	53.00	F	17.12	TN	✓	0.00	$0.00	$0.00	$907.36	$404.72	$1,312.08
07/07/2014 I	Y8	1022331	889073 - SPARGER TECHNOLOGY, II	EIGHT 203	SW-ASBESTOS-FRIABI	53.00	F	19.86	TN	✓	0.00	$0.00	$0.00	$1,052.58	$469.49	$1,522.07
07/08/2014 I	Y8	1022409	889073 - SPARGER TECHNOLOGY, II	BARZA 56	SW-ASBESTOS-FRIABI	53.00	F	18.49	TN	✓	0.00	$0.00	$0.00	$979.97	$437.11	$1,417.08
07/09/2014 I	Y8	1022906	889073 - SPARGER TECHNOLOGY, II	VP 3	SW-ASBESTOS-FRIABI	53.00	F	9.98	TN	✓	0.00	$0.00	$0.00	$528.94	$235.93	$764.87
07/23/2014 I	Y8	1025154	889073 - SPARGER TECHNOLOGY, II	EIGHT 241	SW-ASBESTOS-FRIABI	53.00	F	17.08	TN	✓	0.00	$0.00	$0.00	$905.24	$403.77	$1,309.01
07/23/2014 I	Y8	1025160	889073 - SPARGER TECHNOLOGY, II	EIGHT 236	SW-ASBESTOS-FRIABI	53.00	F	16.44	TN	✓	0.00	$0.00	$0.00	$871.32	$388.64	$1,259.96
07/23/2014 I	Y8	1025179	889073 - SPARGER TECHNOLOGY, II	EIGHT 198	SW-ASBESTOS-FRIABI	53.00	F	17.29	TN	✓	0.00	$0.00	$0.00	$916.37	$408.74	$1,325.11
07/23/2014 I	Y8	1025197	889073 - SPARGER TECHNOLOGY, II	J & G 05	SW-ASBESTOS-FRIABI	53.00	F	14.33	TN	✓	0.00	$0.00	$0.00	$759.49	$338.76	$1,098.25
07/23/2014 I	Y8	1025241	889073 - SPARGER TECHNOLOGY, II	BARZA 56	SW-ASBESTOS-FRIABI	53.00	F	14.79	TN	✓	0.00	$0.00	$0.00	$783.87	$349.64	$1,133.51

Tickets Reported: 79 Items Reported: 79

Contract Totals: $73,299.00 $32,694.12 $105,993.12

✓ = CHECKED
8/9/14

1000 powell st, Emeryville

All Ticket Types
History and Waiting

Detail Contract Activity Report
June 06, 2014 to August 04, 2014
Specific Contract: 4204149337

All Facilities

Material Summary	Weight Inbound	Weight Outbound	Volume Inbound	Volume Outbound	Count Inbound	Count Outbound	Billing Quantity	Material Total	Tax Total	Total
VA - SW-ASBESTOS-F	1,383.00	0.00 TN	1,374.00	0.00 YD	0.00	0.00	1,383.00 TN	$73,299.00	2,694.12	05,993.12

Cash Totals:	$0.00	$0.00	$0.00
Invoice Totals:	$73,299.00	32,694.12	$105,993.12
Report Totals:	$73,299.00	32,694.12	$105.993.12

Tickets Reported: 79 Items Reported: 79

Material Summary	Weight Inbound	Weight Outbound	Volume Inbound	Volume Outbound	Count Inbound	Count Outbound	Billing Quantity	Material Total	Tax Total	Total
VA - SW-ASBESTOS-FI	1,383.00	0.00 TN	1,374.00	0.00 YD	0.00	0.00	1,383.00 TN	$73,299.00	2,694.12	05,993.12

1000 Powell St. Emeryville

(17)

Detail Contract Activity Report
June 06, 2014 to August 04, 2014
Specific Contract: 4204149337

REPORT SUMMARY

Total Tickets:	79	
Total Weight:	1,383.00	TN In
	0.00	TN Out
Total Volume:	1,374.00	YD In
Total Count:		
Total Sales:	$105,993.12	

PONDER ENVIRONMENTAL SERVICES, INC.
BENICIA, CA.

PONDER
ENVIRONMENTAL
P O. Box 1427
Benicia, CA 94510-4427
707-748-7775 Bus.
707-748-7776 Fax

Date	Invoice #
6/16/2014	10189

Bill To
Sparger Technology, Inc 3738 Bradview DR Sacramento, CA 95827 1800 Powell St. Emeryville

SPARGER TECHNOLOGY INC

JUN 17 2014

CJ RECEIVED

Rep
FM

P.O No	Job No & Project Name	Terms	Job Date
	14-16109, I&D OF BINS TO FORWARD LANDFILL	Net 30	06/09/2014

Item	Qty	Description	Rate	Amount
		Reference Quote #14-198		
#246 - 48" Dbl Bin Trlr	1	06/09/14, Pick-up Bin #'s PT3021 & PT2491 & Transport to Forward Landfill for Disposal & Return Bins to Job Site (Manifest #004256477 SKS)	750 00	750 00
Fuel 10% Surcharge	750		0.10	75.00
Fixed Price	1	hrs - Stand-by at Landfill	112.00	112.00
Bridge Toll	1	Bridge Toll	25.00	25.00
#244 - 48' Dbl Bin Trlr	1	06/09/14, Pick-up Bin ##PT3362 & Transport to Forward Landfill for Disposal (Manifest #004256475 SKS)	750.00	750 00
Fuel 10% Surcharge	750		0.10	75 00
Fixed Price	1	hrs - Stand-by at Landfill	112.00	112 00
Bridge Toll	1	Bridge Toll	25.00	25 00
#119 Single Bin w/Oper	5	hrs - 06/09/14, Spot Bins On Site for Out Bound Loads	95 00	475.00
Fuel 10% Surcharge	475		0 10	47 50
Bridge Toll	1	Bridge Toll	15.00	15 00
#220 - 48" Dbl Bin Trlr	1	06/09/14, Pick-up Bin ##PT2358 & Transport to Forward Landfill for Disposal (Manifest #004256479 SKS)	750.00	750.00
Fuel 10% Surcharge	750		0 10	75.00
Fixed Price	1	hrs - Stand-by at Landfill	112 00	112 00
Bridge Toll	1	Bridge Toll	25 00	25.00
		Subtotal		3,423 50

✓ PS

Subtotal	
Payments/Credits	
Balance Due	

Total
$14,134.50

8/9/14

✓ TW

PONDER
ENVIRONMENTAL
P.O. Box 1427
Benicia, CA 94510-4427
707-748-7775 Bus.
707-748-7776 Fax.

Date	Invoice #
6/16/2014	10189

Bill To

Sparger Technology, Inc
3738 Bradview DR
Sacramento, CA 95827
1800 Powell St.
Emeryville

Rep	
FM	

P.O. No	Job No & Project Name	Terms	Job Date
	14-16109, T&D OF BINS TO FORWARD LANDFILL	Net 30	06/09/2014

Item	Qty	Description	Rate	Amount
#246 - 48" Dbl Bin Trlr	1	06/10/14, Pick-up Bin #PT 2491 & Transport to Forward Landfill for Disposal (Manifest #114256465 SKS) Return Bin to Adler	750 00	750 00
#246 - 48" Dbl Bin Trlr	1	Deliver Bin #'s 1736 & 1743 & Transport to Job Site	400 00	400.00
Fuel 10% Surcharge	1,150		0.10	115.00
Bin Liner	2	Bin Liner Per Each (Sales Tax Included)	35 00	70 00
Fixed Price	2	hrs - Stand-by at Landfill	112 00	224 00
Bridge Toll	2	Bridge Toll	25.00	50.00
#246 - 48" Dbl Bin Trlr	2	06/10/14, Pick-up Bin #'sPT2951 & PI3362 & Transport to Forward Landfill for Disposal (Manifest #004256478 SKS & 004256475 SKS)	750 00	1,500 00
#246 - 48" Dbl Bin Trlr	1	Deliver Bin #'s1706 & 1711 & Transport to Job Site	400 00	400 00
Fuel 10% Surcharge	1,150		0 10	115 00
Bin Liner	2	Bin Liner Per Each (Sales Tax Included)	35.00	70.00
Fixed Price	1	hrs - Stand-by at Landfill	112 00	112 00
Bridge Toll	2	Bridge Toll	25 00	50 00
#220 - 48" Dbl Bin Trlr	1	06/10/14, Pick-up Bin PT #1055 & Transport Waste to Forward Landfill for Disposal (Manifest #004256475 SKS)	750.00	750.00
#220 - 48" Dbl Bin Trlr	1	Deliver Bin #'s1740 & 1704 & Transport to Job Site	0 00	0.00
Fuel 10% Surcharge	1,150		0.10	115 00
Bin Liner	2	Bin Liner Per Each (Sales Tax Included)	35 00	70 00
Fixed Price	2	hrs - Stand-by at Landfill	112 00	224.00
Bridge Toll	2	Bridge Toll	25.00	50.00
		Subtotal		5,065.00

O.K. 8/9/14

Subtotal	
Payments/Credits	
Balance Due	

PONDER ENVIRONMENTAL SERVICES, INC. BENICIA, CA.

PONDER
ENVIRONMENTAL
P.O. Box 1427
Benicia, CA 94510-4427
707-748-7775 Bus.
707-748-7776 Fax.

9

Date	Invoice #
6/16/2014	10189

Bill To

Sparger Technology, Inc
3738 Bradview DR
Sacramento, CA 95827
1800 Powell St
Emeryville

Rep	
FM	

P O No	Job No & Project Name	Terms	Job Date
	14-16109, T&D OF BINS TO FORWARD LANDFILL	Net 30	06/09/2014

Item	Qty	Description	Rate	Amount
#246 - 48" Dbl Bin Trlr	1	06/12/14, Pick-up Bin #1704 & Transport Waste to Forward Landfill for Disposal (Manifest # 006066946 JJK)	750 00	750.00
Fuel 10% Surcharge	750		0.10	75 00
Fixed Price	1	hrs- Delay Loading (Checked GPS)	112 00	112 00
Bridge Toll	1	Bridge Toll	25.00	25 00
#220 - 48" Dbl Bin Trlr	1	06/12/14, Pick-up Bin #1736 & Transport Waste to Forward Landfill for Disposal (Manifest # 006066948 JJK)	750.00	750 00
Fuel 10% Surcharge	750		0.10	75.00
Fixed Price	1	hrs- Delay Loading (Checked GPS)	112 00	112 00
Bridge Toll	1	Bridge Toll	25.00	25 00
#244 - 48' Dbl Bin Trlr	1	06/12/14, Pick-up Bin #1711 & Transport Waste to Forward Landfill for Disposal (Manifest # 006066950 JJK)	750 00	750 00
Fuel 10% Surcharge	750		0.10	75.00
Fixed Price	1	hrs - Stand-by at Landfill	112 00	112 00
Bridge Toll	1	Bridge Toll	25.00	25.00
		Subtotal		2,886.00
#220 - 48" Dbl Bin Trlr	1	06/13/14, Pick-up Bin #1743 & Transport Waste to Forward Landfill for Disposal (Manifest # 006066949 JJK)	750.00	750.00
Fuel 10% Surcharge	750		0.10	75 00
Bridge Toll	1	Bridge Toll	25.00	25 00
#246 - 48" Dbl Bin Trlr	1	06/13/14, Pick-up Bin #1740 & Transport Waste to Forward Landfill for Disposal (Manifest # 006066947 JJK)	750.00	750 00
Fuel 10% Surcharge	750		0 10	75.00

Subtotal	o.k. 9/9/14 TG
Payments/Credits	
Balance Due	

PONDER
ENVIRONMENTAL
P.O. Box 1427
Benicia, CA 94510-4427
707-748-7775 Bus.
707-748-7776 Fax.

10

Date	Invoice #
6/16/2014	10189

Bill To

Sparger Technology, Inc
3738 Bradview DR
Sacramento, CA 95827
1800 Powell St.
Emeryville

Rep
FM

P O No	Job No & Project Name	Terms	Job Date
	14-16109, T&D OF BINS TO FORWARD LANDFILL	Net 30	06/09/2014

Item	Qty	Description	Rate	Amount
Bridge Toll	1	Bridge Toll	25 00	25 00
#244 - 48' Dbl Bin Trlr	1	06/13/14, Pick-up Bin #1706 & Transport Waste to Forward Landfill for Disposal (Manifest # 006066951 JJK)	750.00	750.00
Fuel 10% Surcharge	750		0 10	75.00
Bridge Toll	1	Bridge Toll	25 00	25.00
		Subtotal		2,550.00
		BIN RENTAL: COMPLETE		
Bin #1704	3	days: 06/10/14 - 06/12/14, Bin #1704, Complete	10 00	30 00
Bin #1706	4	days: 06/10/14 - 06/13/14, Bin #1706, Complete	10 00	40 00
Bin #1711	3	days: 06/10/14 - 06/12/14, Bin #1711, Complete	10 00	30 00
Bin #1736	3	days: 06/10/14 - 06/12/14, Bin #1736, Complete	10 00	30 00
Bin #1740	4	days: 06/10/14 - 06/13/14, Bin #1740, Complete	10 00	40 00
Bin #1743	4	days: 06/10/14 - 06/13/14, Bin #1743, Complete	10 00	40.00
		Subtotal		210.00
		****PLEASE NOTE: Invoice for Damaged Bin to Follow****		

8/9/14 8/9

Subtotal	$14,134 50
Payments/Credits	$0.00
Balance Due	$14,134.50

PONDER ENVIRONMENTAL SERVICES, INC. BENICIA, CA.

PONDER
ENVIRONMENTAL
P.O. Box 1427
Benicia, CA 94510-4427
707-748-7775 Bus.
707-748-7776 Fax

(11)

SPARGER TECHNOLOGY INC.
JUN 27 2014
RECEIVED

Date	Invoice #
6/26/2014	10256

Bill To
Sparger Technology, Inc 3738 Bradview DR Sacramento, CA 95827 1800 Powell St - Emeryville

Rep
FM

P.O. No.	Job No & Project Name	Terms	Job Date
	14-16109, T&D OF BINS TO FORWARD LANDFILL	Net 30	06/24/2014

Item	Qty	Description	Rate	Amount
#101 50 BBL Vac Tk	1	Reference Quote #14-198, Emeryville, CA 06/24/14, Pick-up Bin #1738 & Transport Bin # to Forward Landfill for Disposal, Return Bin #1738 to Ponder Yard, (Manifest # 011919663 JJK)	750.00	750 00
Fuel 10% Surcharge	750		0 10	75 00
Bridge Toll	1	Bridge Toll	25 00	25.00
#246 - 48" Dbl Bin Trlr	1	06/24/14, Pick-up Bin #1736 & Transport Bin to Forward Landfill for Disposal, Return Bin #1736 to Ponder Yard, (Manifest # 011919662 JJK)	750 00	750.00
Cost Plus 10%	750		0 10	75.00
Bridge Toll	1	Bridge Toll	25.00	25.00
		Subtotal		1,700 00
#244 - 48' Dbl Bin Trlr	1	06/25/14, Pick-up Bin #'s 1743 & 1744 & Transport Bins to Forward Landfill for Disposal, Return Bin #'s1743 & 1744, to Ponder Yard, (Manifest # 011919677 JJK & 011919678 JJK)	750 00	750.00
Fuel 10% Surcharge	750		0 10	75.00
		Subtotal		825.00
		BIN RENTAL: COMPLETE		
Bin #1736	2	days: 06/23/14 - 06/24/14, Bin #1736, Complete	10 00	20.00
Bin #1738	2	days: 06/23/14 - 06/24/14, Bin #1738, Complete	10.00	20 00
BIn #1743	2	days: 06/23/14 - 06/24/14, Bin #1743, Complete	10 00	20.00
Bin #1744	2	days: 06/23/14 - 06/24/14, Bin #1744, Complete	10 00	20.00
		Subtotal		80.00

Subtotal	$2,605 00
Payments/Credits	$0.00
Balance Due	$2,605.00

Total

8/19/14

(12)

PONDER
ENVIRONMENTAL
P.O. Box 1427
Benicia, CA 94510-4427
707-748-7775 Bus.
707-748-7776 Fax

Date	Invoice #
6/24/2014	10247

Bill To
Sparger Technology, Inc 3738 Bradview DR Sacramento, CA 95827 1800 Powell St. Emeryville

Rep
FM

P O No	Job No. & Project Name	Terms	Job Date
	14-16109, I&D OF BINS TO FORWARD LANDFILL	Net 30	06/23/2014

Item	Qty	Description	Rate	Amount
		Reference Quote #14-198		
#246 - 48" Dbl Bin Trlr	2	06/24/14, Deliver Bin #'s 1744, 1738, 1736, 1743 to Job Site	400.00	800.00
Fuel 10% Surcharge	800		0.10	80.00
Bin Liner	4	bin liner per each (Sales Tax Included)	35.00	140.00
Bridge Toll	2	Bridge Toll	25.00	50.00

SPARGER TECHNOLOGY INC.

JUN 27 2014

RECEIVED

Subtotal	$1,070.00
Payments/Credits	$0.00
Balance Due	$1,070.00

8/4 ✓

O.E 8/4/14 RE

PONDER
ENVIRONMENTAL
P.O. Box 1427
Benicia, CA 94510-4427
707-748-7775 Bus.
707-748-7776 Fax.

(13)

Date	Invoice #
6/18/2014	10205

SPARGER TECHNOLOGY INC
JUN 23 2014
RECEIVED

Bill To

Sparger Technology, Inc
3738 Bradview DR
Sacramento, CA 95827
1800 Powell St
Emeryville

Rep
FM

P O No	Job No & Project Name	Terms	Job Date
	14-16109, I&D OF BINS TO FORWARD LANDFILL	Net 30	06/18/2014

Item	Qty	Description	Rate	Amount
Fixed Price	1	06/18/14, Labor Charge - Repair of Damaged Bin	600 00	600 00
Fixed Price	1	Materials	45 00	45.00

Subtotal	$645 00
Payments/Credits	$0 00
Balance Due	$645 00

8/4/1
O.K - 8/9/14

EIGHTEEN TRUCKING CO.
P.O. BOX 881116
SAN FRANCISCO CA 94188
Office: 415 552-1818 Fax: 415 552-3130
Lic#: CA 317263

Date: 07/28/2014
Invoice: 201407-208
DTS Job: 07/28/14-1
Cust. #: SPAR
Job: 1800

SPARGER TECHNOLOGY, INC **Customer Job: A-U ENERGY**

JUL 30 2014
RECEIVED CG

SPARGER TECHNOLOGY
RAY JAMES
3738 BRADVIEW DR.
SACRAMENTO, CA 95827

Origin: 1800 POWELL STREET
EMERYVILLE, CA.

Destination: FORWARD LANDFILL
MANTECA, CA.

Date	Ticket	Pay Code	Truck	Description	Qty	Rate	Amount
05/30	05968	BTI		DROPPED 2 R/O BINS	1.00	475.00	475.00
05/30	11245	BTI		DROPPED 2 R/O BINS	1.00	475.00	475.00
06/02	11248	BTI		DROPPED 4 R/O BINS	2.00	475.00	950.00
06/03	02254	BTI		DROPPED 2 R/O BINS	1.00	475.00	475.00
06/03	11249	BTI		DROPPED 4 R/O BINS	2.00	475.00	950.00
06/04	11250	BTI		DROPPED 4 R/O BINS	2.00	475.00	950.00
06/10	05978	BTI		DROPPED 1 R/O BIN PJ	8.00	105.00	840.00
06/12	02470	BTI		ON SITE R/O 10 WLR. + PLUS 1 BIN 7/9/14	10.00	95.00	950.00
06/12	03400	BTI		1 LOAD	1.00	850.00	850.00
06/12	04457	BTI		1 LOAD	1.00	850.00	850.00
06/12	05980	BTI		DUMP 1 R/O BIN	11.00	105.00	1,155.00
06/12	06232	BTI		1 LOAD Standby Time	1.00 2.00	850.00 95.00	850.00 190.00
06/13	04458	BTI		1 LOAD	1.00	850.00	850.00
06/13	05981	BTI		DUMPPED 2 R/O BINS	8.00	105.00	840.00
06/13	06233	BTI		1 LOAD	1.00	850.00	850.00
06/16	05982	BTI		DUMPPED 2 R/O BINS	8.50	105.00	892.50
06/17	06514	BTI		DUMPPED 1 R/O BIN	4.50	105.00	472.50
06/20	03386	BTI		1 LOAD	1.00	850.00	850.00
06/20	04461	BTI		1 LOAD	1.00	850.00	850.00
06/23	04463	BTI		1 LOAD	1.00	850.00	850.00
06/23	05231	BTI		1 LOAD	1.00	850.00	850.00
06/23	05930	BTI		1 LOAD	1.00	850.00	850.00
06/23	05990	BTI		1 LOAD	1.00	850.00	850.00
07/21	3783	BTI		BIN DAILY RENTAL	126.00	12.00	1,512.00
07/21	3783A	BTI		LINERS	14.00	45.00	630.00

Amount: 21,107.00 ✓

8/9/14 OK TG

** THANK YOU FOR YOUR BUSINESS **

EIGHTEEN TRUCKING CO.
P O. BOX 881116
SAN FRANCISCO CA 94188
Office: 415 552-1818 Fax: 415 552-3130
Lic#: CA 317263

Date: 06/27/2014
Invoice: 201406-268
DTS Job: 06/27/14-28
Cust. #: SPAR

SPARGER TECHNOLOGY
RAY JAMES
3738 BRADVIEW DR.
SACRAMENTO, CA 95827

Origin: 1800 POWELL ST.
EMERIVILLE, CA

Destination: FORWARD LANDFILL
MANTECA, CA

Date	Ticket	Pay Code	Truck	Description	Qty	Rate	Amount
06/19	327634	204	236	ASBESTOS FRIABLE	1.00	800.00	800.00
06/23	327635	204	204	ASBESTOS FRIABLE	1.00	800.00	800.00
06/23	328192	J&G	05	ASBESTOS FRIABLE	1.00	800.00	800.00
06/24	327367	198	198	ASBESTOS FRIABLE	1.00	800.00	800.00
06/24	327636	204	201	ASBESTOS FRIABLE	2.00	450.00	900.00
06/24	330184	240	204	ASBESTOS FRIABLE	2.00	450.00	900.00
06/24	330710	182	361	ASBESTOS FRIABLE	1.00	800.00	800.00
06/24	330757	H&J	07	ASBESTOS FRIABLE	1.00	800.00	800.00
06/25	327368	198	198	ASBESTOS FRIABLE	1.00	800.00	800.00
06/25	327637	204	198	ASBESTOS FRIABLE	1.00	800.00	800.00
06/25	328193	J&G	05	ASBESTOS FRIABLE	1.00	800.00	800.00
06/25	330185	240	204	ASBESTOS FRIABLE	1.00	800.00	800.00
06/25	330758	H&J	07	ASBESTOS FRIABLE	1.00	800.00	800.00
06/26	330186	240	204	ASBESTOS FRIABLE	1.00	800.00	800.00

Amount: 11,400.00 ✓

8/19/14

SPARGER TECHNOLOGY, INC
2014
RECEIVED

** THANK YOU FOR YOUR BUSINESS **

(3)

EIGHTEEN TRUCKING CO.
P O. BOX 881116
SAN FRANCISCO CA 94188
Office: 415 552-1818 Fax: 415 552-3130
Lic#: CA 317263

SPARGER TECHNOLOGY, INC
JUL 10 2014
RECEIVED

Date: 06/30/2014
Invoice: 201406-285
DTS Job: 06/30/14-15
Cust. #: SPAR

SPARGER TECHNOLOGY
RAY JAMES
3738 BRADVIEW DR.
SACRAMENTO, CA 95827

Origin: 1800 POWELL ST.
EMERIVILLE, CA.

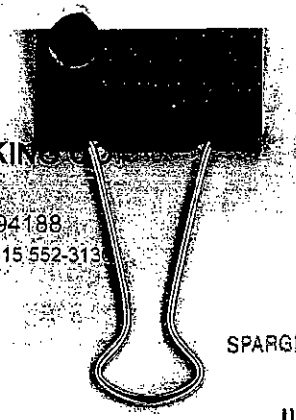
Destination: FORWARD LANDFILL
MANTECA, CA

Date	Ticket	Pay Code	Truck	Description	Qty	Rate	Amount
06/23	2098	SANCHEZ	02	ASBESTOS FRIABLE	1.00	800.00	800.00
06/24	2099	SANCHEZ	02	ASBESTOS FRIABLE	1.00	800.00	800.00
06/24	320036	BMT	353	ASBESTOS FRIABLE	1.00	800.00	800.00
06/26	327638	204	198	ASBESTOS FRIABLE	1.00	800.00	800.00

Amount: 3,200.00 ✓

RG
8/9/14

** THANK YOU FOR YOUR BUSINESS **



(4)

EIGHTEEN TRUCKING CO
P O. BOX 881116
SAN FRANCISCO CA 94188
Office: 415 552-1818 Fax: 415 552-313
Lic#: CA 317263

Date: 07/11/2014
Invoice: 201407-84
DTS Job: 07/11/14-19
Cust. #: SPAR

SPARGER TECHNOLOGY, INC

JUL 14 2014
RECEIVED

Origin: 1800 POWEL ST.
EMERIVILLE, CA

SPARGER TECHNOLOGY
RAY JAMES
3738 BRADVIEW DR.
SACRAMENTO, CA 95827

Destination: FORWARD LANDFILL
MANTECA, CA

Date	Ticket	Pay Code	Truck	Description	Qty	Rate	Amount
06/20	41954	INTR	303	ASBESTOS FRIABLE	1.00	800.00	800.00
06/23	41955	INTR	303	ASBESTOS FRIABLE	1.00	800.00	800.00
07/03	323715	SUR	9D	ASBESTOS FRIABLE	1.00	800.00	800.00
07/03	327409	196	203	ASBESTOS FRIABLE	2.00	450.00	900.00
07/03	327828	SUR	7	ASBESTOS FRIABLE	1.00	800.00	800.00
07/03	328545	198	198	ASBESTOS FRIABLE	1.00	800.00	800.00
07/03	330191	240	204	ASBESTOS FRIABLE	2.00	450.00	900.00
07/03	330677	198	198	ASBESTOS FRIABLE	1.00	800.00	800.00
07/03	330717	182	361	ASBESTOS FRIABLE	1.00	800.00	800.00
07/07	323856	192	120	ASBESTOS FRIABLE	1.00	800.00	800.00
07/07	327410	196	203	ASBESTOS FRIABLE	2.00	450.00	900.00
07/07	327644	204	204	ASBESTOS FRIABLE	2.00	450.00	900.00
07/07	330192	240	204	ASBESTOS FRIABLE	2.00	450.00	900.00
07/07	330743	242	288	ASBESTOS FRIABLE	1.00	800.00	800.00

✓ Amount: 11,700.00

8/9/14

O.K.
8/9/14
TW

** THANK YOU FOR YOUR BUSINESS **

EIGHTEEN TRUCKING CO.
P.O. BOX 881116
SAN FRANCISCO, CA 94188
Office: 415 552-1618 Fax: 415 552-3130
Lic#: CA 317263

(5)

Date: 07/16/2014
Invoice: 201407-126
DTS Job: 07/16/14-16
Cust. #: SPAR

SPARGER TECHNOLOGY INC

JUL 21 2014

RECEIVED

SPARGER TECHNOLOGY
RAY JAMES
3738 BRADVIEW DR.
SACRAMENTO, CA 95827

Origin: 1800 POWELL ST.
EMERIVILLE, CA

Destination: FORWARD LANDFILL
MANTECA, CA

Date	Ticket	Pay Code	Truck	Description	Qty	Rate	Amount
07/03	328516	CHAHAL	175	ASBESTOS FRIABLE ✓	1.00	800.00	800.00
07/07	327829	SUR	7	ASBESTOS FRIABLE ✓	1.00	800.00	800.00
07/07	330718	182	361	ASBESTOS FRIABLE ✓	1.00	800.00	800.00

Amount: 2,400.00 ✓

8/9/14

8/9/14

TR

** THANK YOU FOR YOUR BUSINESS **

APPENDIX J
WORK PLAN FOR WIDENING THE EXISTING EXCAVATION AT SHELL-BRANDED GASOLINE STATION TO ACCOMMODATE NEW USTS

June 5, 2014

Mr. Jerry Wickham
ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Project No. 33113-013181.00

Subject: Work Plan for Widening the Existing Excavation at Shell-Branded Gasoline Station to Accommodate New USTs
1800 ½ Powell Street, Emeryville, California, APN 049 -1495-001-12
Case No. RO0000254; GeoTracker Global ID: T0600101231

Dear Mr. Wickham:

As requested, Bureau Veritas North America, Inc. (BVNA) on behalf of Au Energy, LLC (Au Energy, the responsible party), has prepared this Work Plan detailing soil management procedures at the above-referenced Site for additional excavation of sidewall materials beyond the extent of the current excavation of the former underground storage tank (UST) pit. BVNA prepared this Work Plan based on a phone conversation with Alameda County Health Care Services Agency (ACHCSA) on June 3, 2014.

The Site gasoline station is currently being redeveloped and upgraded. The former USTs and dispensers have been removed. The new, future tank configuration is shown in the attached figure. The purpose of this Work Plan is request that the pea gravel which is currently in the UST excavation and has not been previously excavated remain in-situ, and to allow for the removal of additional petroleum impacted fill materials and debris be removed as part of the excavation widening work.

BACKGROUND

During the removal of the former USTs, materials surrounding the USTs were sampled in-situ prior to their removal. The sampled materials included soil, fill of unknown origin generally found below the depths of 4 to 8 feet below ground surface (bgs), and pea gravel (former UST backfill and support material). The samples were collected from the pit sidewalls and base by Mr. Ray James of Sparger Technology on behalf of Au Energy.

Following sampling, approximately 300 cubic yards of pea gravel were removed from the excavation and temporarily placed on and covered with plastic, adjacent and to the northeast of the excavation. On June 3, 2014, ACHCSA verbally approved temporary re-use of the stockpiled pea gravel to provide stability during installation of temporary shoring in the excavation.

Bureau Veritas North America, Inc.
Health, Safety, and Environmental Services
2430 Camino Ramon, Suite 122
San Ramon, CA 94583
Main: (925) 426.2600
Fax: (925) 426.0106
www.us.bureauveritas.com

SAMPLE ANALYSES

The collected samples were analyzed by the following U.S. EPA methods:

- Total extractable petroleum hydrocarbons (TEPH) and total petroleum hydrocarbons quantified as gasoline (TPH-g) by method 8015B
- Benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl tertiary butyl ether (MTBE) and other volatile organic compounds (VOCs) by method 8260B
- Polychlorinated biphenyls (PCBs) by method 8082
- Semi volatile organic compounds (SVOCs) by method 8270

The laboratory analytical results are enclosed. Summaries of detected organic chemicals of concern are provided in Tables 1 through 3, below.

TABLE 1 – GRAY SOILS

Chemical of Concern Sparger Data 20925	STKP-1 (ABCD) mg/kg	STKP-2 (ABCD) mg/kg
TPH-d	<10	2400
TPH-mo	1200	<100
Other 8260 VOCs	ND	Acetone 0.02

TABLE 2 – DEBRIS / FILL MATERIALS

Chemical of Concern Sparger Data 20927	Debris Mix #1 mg/kg	Debris Mix #1 mg/kg
TPH-g	1,900	200
TPH-mo	43,000	68,000
TPH-k	5,000	10,000
Benzene	1.5/1.7	1.1/1.2
Toluene	0.59/0.54	0.59/0.54
Ethyl benzene	7.6/7.6	6.8/7.1
Xylenes	6.3/5.5	17/16
MTBE	0.77	0.82
Other 8260 VOCs	Naphthalene (5.6) 1,2,4-Trimethylbenzene (5.7)	Naphthalene (5.9)/(8.9) 1,2,4-Trimethylbenzene (29) Phenanthrene (4.4)
Chemical of Concern Sparger Data 20926	STKP-3 (ABCD) mg/kg	STKP-4 (ABCD) mg/kg
TPH-d	270	550
Other 8260 VOCs	Acetone 0.03	Acetone 0.02

TABLE 3 – PEA GRAVEL

Chemical of Concern Sparger Data 20926	STKP-3 (ABCD) mg/kg	STKP-4 (ABCD) mg/kg
TPH-d	270	550
Other 8260 VOCs	Acetone 0.03	Acetone 0.02

SCOPE OF WORK

Installation of the new USTs will require over-excavation and removal of materials from the west and east sidewalls of the current excavation to accommodate alignment of the tanks (Figure enclosed). To prepare for over-excavation, debris and fill materials will be removed to create trenches where temporary shoring will be installed. Upon approval of this Work Plan by the ACHCSA, Au Energy will notify ACHCSA of the work schedule and complete the scope of work presented herein.

Excavation and Soil Loading

A California state-licensed contractor utilizing a backhoe, excavator, loader and other required equipment will over-excavate and remove soils at the west and east ends of the existing excavation. It is estimated that approximately 500 cubic yards of soil, fill materials and temporarily re-used pea gravel will be removed from the excavation sidewalls and temporary shoring trenches to accommodate the new USTs. The excavated materials will be loaded directly into lined bins for offsite disposal. The materials will be profiled for acceptance at an off-site disposal facility as regulated wastes based on the analytical results summarized in Tables 1 through 3. Handling and transportation of the excavated materials will be in accordance with federal, state, and local regulations. This material will be manifested and transported to an approved disposal facility in trucks meeting requirements of the U.S. Department of Transportation-(DOT) using a California-certified waste hauler.

Request for Use of Existing Pea Gravel in the Excavation

There is an estimated 300 cubic yards of additional pea gravel located at the base of the existing excavation that was not excavated at the time of tank removal. BVNA requests that ACHCSA approve use of the base level pea gravel to support the new USTs to be installed. Based on the analytical data (Table 3), fuel related compounds detected in the pea gravel are limited to low residual concentrations of TPH-d. The in-situ pea gravel is in contact with groundwater and industrial waste materials, which is currently impacted with residual petroleum hydrocarbons. If the remaining base level pea gravel were replaced, the new clean pea gravel would come into contact with groundwater and historical industrial waste fill materials that are prevalent throughout the site vicinity and likely become similarly impacted by low residual concentrations of TPH-d. Therefore, replacing the pea gravel will not likely improve Site conditions which are degraded by the historical placement of industrial waste materials.

If you have any questions or concerns, please contact us.

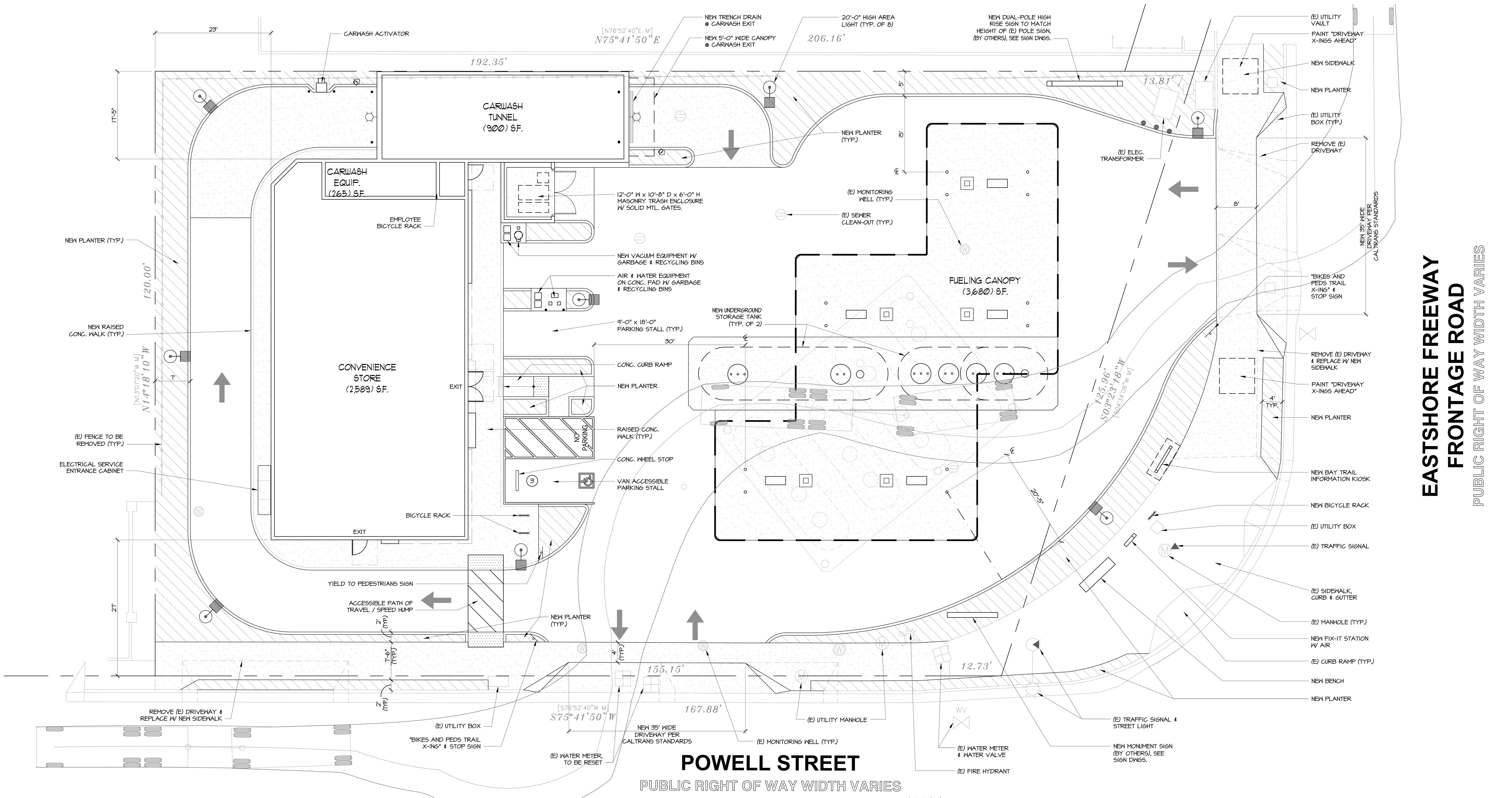
Sincerely,

Mark Williams, CAC, PG
Senior Project Manager
Health, Safety and Environmental Services
(925) 426-2676
mark.williams@us.bureauveritas.com

John Werfal
Regional Director
Health, Safety and Environmental Services
(925) 426-2629
john.werfal@us.bureauveritas.com

Attachments: Figure and Laboratory Analytical Report

Figure



1 SITE PLAN
SCALE: 1" = 10'-0"

DRAWING INDEX

3D	PROPOSED GAS STATION
SD1	SITE PLAN
DR-	SURVEY
C1	PRELIMINARY GRADING PLAN
C1.1	PRELIMINARY DRAINAGE AREAS
SD1-1	SECURITY PLAN
SD1-L	SITE LIGHTING PHOTOMETRIC
LA1	LANDSCAPE PLAN
A1.1	FLOOR PLAN
A2.1	BUILDING ELEVATIONS
A2.2	BUILDING ELEVATIONS
A2.3	CANOPY ELEVATIONS
1 OF 4	SIGNAGE PROGRAM
2 OF 4	SIGNAGE PROGRAM
3 OF 4	SIGNAGE PROGRAM
4 OF 4	SIGNAGE PROGRAM

PROJECT DIRECTORY

ARCHITECT
M I ARCHITECTS, INC.
2960 CAMINO DIABLO, SUITE 100
WALNUT CREEK, CA 94597
TEL: (925) 287-1174 x1
FAX: (925) 943-1581
CELL: (925) 878-9875
MR. MUTHANA IBRAHIM, ARCHITECT

LANDSCAPE ARCHITECT
CIARDELLA ASSOCIATES
951 ROSE AVENUE
MENLO PARK, CA 94025
TEL: (650) 326-6100
FAX: (650) 323-6706
CELL:
MR. RICHARD CIARDELLA

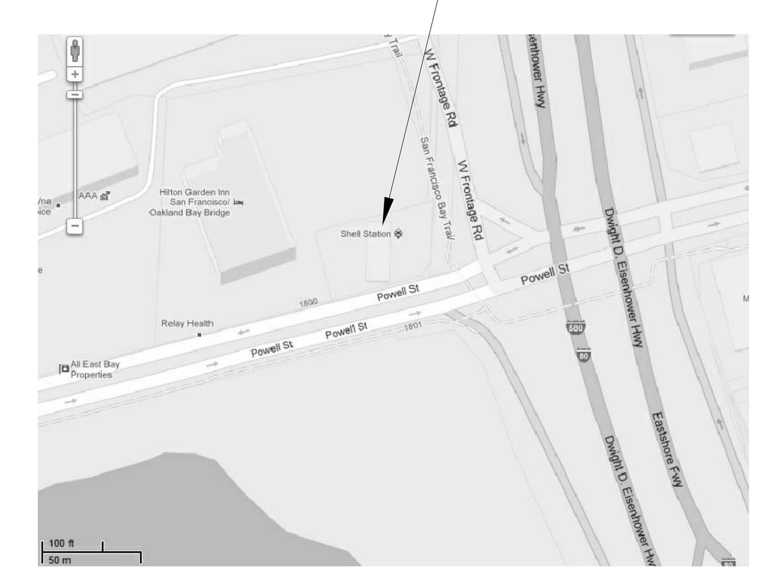
DEVELOPER
A U ENERGY, LLC
41805 ALBRAE ST., 2ND FLR.
FREMONT, CA 94538
TEL: (650) 868-7454
FAX: -
MR. NICK GOYAL

SITE PLAN LEGEND

- NEW LANDSCAPING - 3,105 S.F.
- NEW CONCRETE PAVING
- 4 FT. WIDE (MIN.) ACCESSIBLE ROUTE OF TRAVEL, SHALL NOT EXCEED 5% SLOPE IN THE DIRECTION OF TRAVEL AND 2% CROSS SLOPE
- EXISTING TO REMAIN
- EXISTING CURB TO REMAIN
- NEW CONCRETE CURB

VICINITY MAP

PROJECT SITE
APN #049-1495-001-12



NORTH

M I Architects
M I Architects, Inc.
ARCHITECTURE PLANNING MANAGEMENT DESIGN
2960 CAMINO DIABLO
SUITE 100
WALNUT CREEK, CA
94597
925-287-1174 Tel
925-943-1581 Fax
925-878-9875 Cell
muthana@miarchitect.com
www.miarchitect.com

NOT FOR CONSTRUCTION

SHELL GAS STATION, CARWASH & "LOOP" CONVENIENCE STORE
1800 POWELL STREET
EMERYVILLE, CA 94608

DRAWINGS AND SPECIFICATIONS AND THE CONCEPTS EMBEDDED WITHIN THEM CONSTITUTE THE ORIGINAL UNPUBLISHED WORK, M I ARCHITECTS, INC. DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF PROFESSIONAL SERVICE AND REMAIN THE PROPERTY OF THE ARCHITECT. THE USE, DUPLICATION OR DISCLOSURE OF THE DOCUMENTS WITHOUT EXPRESSED WRITTEN CONSENT FROM M I ARCHITECTS, INC. IS PROHIBITED.

LICENSED ARCHITECT
MUTHANA ISMAIL IBRAHIM
C-29627
6/30/2013
RENEWAL DATE
STATE OF CALIFORNIA

-	ISSUED FOR CONSTRUCTION
-	ISSUED FOR PLAN CHECK
-	ISSUED FOR PLANNING

NO.	DATE	DESCRIPTION
△	04-25-13	REVISED PER PLANNING COMMENTS
△	04-29-13	REVISED PER PLANNING COMMENTS
△	05-15-13	REVISED PER PLANNING COMMENTS
△	06-10-13	REVISED PER PLANNING COMMENTS
△	09-13-13	REVISED PER OWNER REQUEST

SITE PLAN

PROJECT #: 12-5025
DRAWN: JM CHECKED: MII
SCALE: AS NOTED DATE: 02-11-13

SD1
SHEET OF

S:\1-Projects\12-5025 Emeryville\Dwg's\Permitting\12-5025-S01.dwg modified by Jody Malone at Sep 13, 2013 - 3:23pm

Analytical Data Sheets

Sparger Technology, Inc.
Environmental Laboratories

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Sunny Goyal
Au Energy
4185 Albrae Street
Fremont, CA 94538

Client	Au Energy
Workorder	20925 1800 Powel Street
Received	05/19/14

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

Sparger Technology, Inc. ID Suffix Keys - These descriptors will follow the Sparger Technology, Inc. ID numbers and help identify the specific sample and clarify the report.

- DUP - Matrix Duplicate
- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- LCS - Lab Control Sample
- LCSD - Lab Control Sample Duplicate
- RPD - Relative Percent Difference
- QC - Additional Quality Control
- DIL - Results from a diluted sample
- ND - None Detected
- RL - Reporting Limit

Note: In an effort to conserve paper, the results are printed on both sides of the paper.

Ray James
Laboratory Director

3738 Bradview Drive • Sacramento, California 95827 • (916) 369-7688 • FAX (916) 369-7689

Sunny Goyal
Au Energy
4185 Albrae Street
Fremont, CA 94538

Workorder 20925

Enclosed are the results from samples received on May 19, 2014.

The requested analyses are listed below.

SAMPLE	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
20925001	STKP-1 (A,B,C,D)-COMP, Soil	05/19/14	8015B TEPH S 8015B TPHgas S 8260B BTEX/FOC S 8260B S 6010B STLC 6010B S 7470A STLC HG 7471A S HG 8082 S 8270C
20925002	STKP-2 (A,B,C,D)-COMP, Soil	05/19/14	8015B TEPH S 8015B TPHgas S 8260B BTEX/FOC S 8260B S 6010B STLC 6010B S 7470A STLC HG 7471A S HG 8082 S 8270C

Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925001 **Sampled** 05/19/14
Sample ID STKP-1 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8015B TEPH

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:10
TPHmotor oil	**8015B TEPH S**	**05/20/14**	**05/20/14**	**1200**	**100**	**mg/Kg**	**1:10**
TPHkerosene	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:10

Laboratory ID 20925001 **Sampled** 05/19/14
Sample ID STKP-1 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	17.1 ug/kg	86 %	(65 - 135)

Laboratory ID 20925001 **Sampled** 05/19/14
Sample ID STKP-1 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	49 ug/kg	98 %	(65 - 135)

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925001 **Sampled** 05/19/14
Sample ID STKP-1 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1,1,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,1-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromo-3-chloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromoethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3,5-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,4-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2,2-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Butanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chloroethylvinyl ether	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Hexanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Isopropyltoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Methyl-2-pentanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acetone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrolein	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrylonitrile	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromodichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromoform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925001 **Sampled** 05/19/14
Sample ID STKP-1 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Bromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon disulfide	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon tetrachloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichlorodifluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Hexachlorobutadiene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Iodomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Isopropylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Naphthalene	8260B S	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Styrene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Tetrachloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichlorofluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl acetate	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl chloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
m,p-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Propylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
o-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
sec-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
tert-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	52 ug/kg	104 %	(65 - 135)

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Test Certificate of Analysis

Client ID	Au Energy	**Workorder ID**	1800 Powel Street
Workorder #	20925	**Sampled**	05/19/14
Laboratory ID	20925001	**Received**	05/19/14
Sample ID	STKP-1 (A,B,C,D)-COMP	**Reported**	05/22/14
Matrix	Soil		

8260B GC/MS Volatiles - 8260B S (continued)

Surrogates	Result	Recovery	Limits
Toluene d8	51 ug/kg	102 %	(65 - 135)
4-Bromofluorobenzene	53 ug/kg	106 %	(65 - 135)

Laboratory ID	20925001	**Sampled**	05/19/14
Sample ID	STKP-1 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

CAM17 STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	**6010B STLC**	**05/21/14**	**05/22/14**	**0.59**	**0.050**	**mg/L**	**1:1**
Barium	**6010B STLC**	**05/21/14**	**05/22/14**	**2.0**	**0.010**	**mg/L**	**1:1**
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	**6010B STLC**	**05/21/14**	**05/22/14**	**1.1**	**0.050**	**mg/L**	**1:1**
Mercury	**7470A STLC HG**	**05/21/14**	**05/21/14**	**0.002**	**0.001**	**mg/L**	**1:1**
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	**6010B STLC**	**05/21/14**	**05/22/14**	**10**	**0.075**	**mg/L**	**1:1**

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925001 **Sampled** 05/19/14
Sample ID STKP-1 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

CAM17 TTLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Arsenic	**6010B S**	**05/20/14**	**05/22/14**	**21**	**2.0**	**mg/Kg**	**1:1**
Barium	**6010B S**	**05/20/14**	**05/22/14**	**54**	**2.0**	**mg/Kg**	**1:1**
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	**6010B S**	**05/20/14**	**05/22/14**	**25**	**1.0**	**mg/Kg**	**1:1**
Cobalt	**6010B S**	**05/20/14**	**05/22/14**	**6.5**	**2.0**	**mg/Kg**	**1:1**
Copper	**6010B S**	**05/20/14**	**05/22/14**	**23**	**2.0**	**mg/Kg**	**1:1**
Lead	**6010B S**	**05/20/14**	**05/22/14**	**27**	**1.0**	**mg/Kg**	**1:1**
Mercury	**7471A S HG**	**05/20/14**	**05/21/14**	**0.013**	**0.0050**	**mg/Kg**	**1:1**
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	**6010B S**	**05/20/14**	**05/22/14**	**28**	**4.0**	**mg/Kg**	**1:1**
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	**6010B S**	**05/20/14**	**05/22/14**	**19**	**1.0**	**mg/Kg**	**1:1**
Zinc	**6010B S**	**05/20/14**	**05/22/14**	**82**	**1.5**	**mg/Kg**	**1:1**

Laboratory ID 20925001 **Sampled** 05/19/14
Sample ID STKP-1 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8082 GC PCBs

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1016	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1221	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1232	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1242	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1248	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1254	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1260	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Decachlorobiphenyl (DCB)	0.0062mg/Kg	37 %	(30 - 145)
Tetrachlorometaxylene (TCMX)	0.010 mg/Kg	60 %	(30 - 145)

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925001 **Sampled** 05/19/14
Sample ID STKP-1 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8270C GC/MS Semi-Vol.

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
1,2-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
1,3-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4,5-Trichlorophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
2,4,6-Trichlorophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4-Dichlorophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4-Dimethylphenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4-Dinitrophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,6-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Chloronaphthalene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Chlorophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Methylnaphthalene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Methylphenol(o-Cresol)	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Nitroaniline	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
2-Nitrophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
3,3'-Dichlorobenzidine	8270C	05/20/14	05/21/14	ND	6600	ug/kg	1:10
3-Nitroaniline	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
4,6-Dinitro-2-methylphenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
4-Bromophenylphenylether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Chloroaniline	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Chlorophenylphenylether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Methylphenol(p-Cresol)	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Nitroaniline	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
4-Nitrophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
Acenaphthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Acenaphthylene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Anthracene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(a)anthracene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(a)pyrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(b)fluoranthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(g,h,i)perylene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(k)fluoranthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzoic acid	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925001 **Sampled** 05/19/14
Sample ID STKP-1 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8270C GC/MS Semi-Vol. (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Benzyl alcohol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Bis(2-Chloroethoxy)methane	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Bis(2-Chloroethyl)ether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Butylbenzylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Chrysene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Di-n-butylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Di-n-octylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Dibenzo(a,h)anthracene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Dibenzofuran	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Diethylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Dimethylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Fluoranthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Fluorene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachlorobutadiene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachlorocyclopentadiene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachloroethane	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Indeno(1,2,3-cd)pyrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Isophorone	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
N-Nitrosodiphenylamine	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Naphthalene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Nitrobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Pentachlorophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
Phenanthrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Phenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Pyrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
bis(2-chloroisopropyl)ether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
bis(2-ethylhexyl)phthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10

Surrogates	Result	Recovery	Limits
2,4,6-Tribromophenol	4400 ug/kg	66 %	(10 - 135)
2-Fluorobiphenyl	1520 ug/kg	46 %	(30 - 135)
2-Fluorophenol	3920 ug/kg	59 %	(21 - 110)
p-Terphenyl-D14	2430 ug/kg	73 %	(33 - 145)
Nitrobenzene-D5	1970 ug/kg	59 %	(25 - 134)

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Test Certificate of Analysis

Client ID	Au Energy	**Workorder ID**	1800 Powel Street
Workorder #	20925	**Sampled**	05/19/14
Laboratory ID	20925001	**Received**	05/19/14
Sample ID	STKP-1 (A,B,C,D)-COMP	**Reported**	05/22/14
Matrix	Soil		

8270C GC/MS Semi-Vol. - 8270C (continued)

Surrogates	Result	Recovery	Limits
Phenol-D6	3820 ug/kg	57 %	(10 - 110)

Laboratory ID	20925002	**Sampled**	05/19/14
Sample ID	STKP-2 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

8015B TEPH

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	**8015B TEPH S**	**05/20/14**	**05/20/14**	**2400**	**10**	**mg/Kg**	**1:10**
TPHmotor oil	8015B TEPH S	05/20/14	05/20/14	ND	100	mg/Kg	1:10
TPHkerosene	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:10

Laboratory ID	20925002	**Sampled**	05/19/14
Sample ID	STKP-2 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	13.6 ug/kg	68 %	(65 - 135)

Laboratory ID	20925002	**Sampled**	05/19/14
Sample ID	STKP-2 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B BTEX/Oxygenates (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	49 ug/kg	98 %	(65 - 135)

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1,1,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,1-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromo-3-chloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromoethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3,5-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,4-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2,2-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Butanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chloroethylvinyl ether	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
2-Hexanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Isopropyltoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Methyl-2-pentanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acetone	**8260B S**	**05/21/14**	**05/21/14**	**20**	**2.0**	**ug/kg**	**1:1**
Acrolein	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrylonitrile	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromodichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromoform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon disulfide	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon tetrachloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichlorodifluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Hexachlorobutadiene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Iodomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Isopropylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Naphthalene	8260B S	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Styrene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Tetrachloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichlorofluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl acetate	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl chloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
cis-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
m,p-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Propylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
o-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
sec-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
tert-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	52 ug/kg	104 %	(65 - 135)
Toluene d8	52 ug/kg	104 %	(65 - 135)
4-Bromofluorobenzene	55 ug/kg	110 %	(65 - 135)

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

CAM17 STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	**6010B STLC**	**05/21/14**	**05/22/14**	**0.42**	**0.050**	**mg/L**	**1:1**
Barium	**6010B STLC**	**05/21/14**	**05/22/14**	**1.5**	**0.010**	**mg/L**	**1:1**
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	**6010B STLC**	**05/21/14**	**05/22/14**	**0.58**	**0.050**	**mg/L**	**1:1**
Mercury	**7470A STLC HG**	**05/21/14**	**05/21/14**	**0.002**	**0.001**	**mg/L**	**1:1**
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1

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Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

CAM17 STLC (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Zinc	**6010B STLC**	**05/21/14**	**05/22/14**	**1.4**	**0.075**	**mg/L**	**1:1**

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

CAM17 TTLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Arsenic	**6010B S**	**05/20/14**	**05/22/14**	**12**	**2.0**	**mg/Kg**	**1:1**
Barium	**6010B S**	**05/20/14**	**05/22/14**	**38**	**2.0**	**mg/Kg**	**1:1**
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	**6010B S**	**05/20/14**	**05/22/14**	**27**	**1.0**	**mg/Kg**	**1:1**
Cobalt	**6010B S**	**05/20/14**	**05/22/14**	**7.2**	**2.0**	**mg/Kg**	**1:1**
Copper	**6010B S**	**05/20/14**	**05/22/14**	**9.7**	**2.0**	**mg/Kg**	**1:1**
Lead	**6010B S**	**05/20/14**	**05/22/14**	**16**	**1.0**	**mg/Kg**	**1:1**
Mercury	**7471A S HG**	**05/20/14**	**05/21/14**	**0.037**	**0.0050**	**mg/Kg**	**1:1**
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	**6010B S**	**05/20/14**	**05/22/14**	**29**	**4.0**	**mg/Kg**	**1:1**
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	**6010B S**	**05/20/14**	**05/22/14**	**21**	**1.0**	**mg/Kg**	**1:1**
Zinc	**6010B S**	**05/20/14**	**05/22/14**	**45**	**1.5**	**mg/Kg**	**1:1**

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8082 GC PCBs

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1016	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1221	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1232	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1242	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1248	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1254	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1260	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1

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Client ID	Au Energy	**Workorder ID**	1800 Powel Street
Workorder #	20925	**Sampled**	05/19/14
Laboratory ID	20925002	**Received**	05/19/14
Sample ID	STKP-2 (A,B,C,D)-COMP	**Reported**	05/22/14
Matrix	Soil		

8082 GC PCBs - 8082 S (continued)

Surrogates	Result	Recovery	Limits
Decachlorobiphenyl (DCB)	0.0040mg/Kg	24 %	(30 - 145)
Tetrachlorometaxylene (TCMX)	0.010 mg/Kg	60 %	(30 - 145)

Laboratory ID	20925002	**Sampled**	05/19/14
Sample ID	STKP-2 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

8270C GC/MS Semi-Vol.

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,2-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,3-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4,5-Trichlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4,6-Trichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dimethylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dinitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,6-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chloronaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylnaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylphenol(o-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2-Nitrophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
3,3'-Dichlorobenzidine	8270C	05/20/14	05/21/14	ND	660	ug/kg	1:1
3-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4,6-Dinitro-2-methylphenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Bromophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloroaniline	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chlorophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Methylphenol(p-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8270C GC/MS Semi-Vol. (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
4-Nitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Acenaphthylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(a)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(a)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(b)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(g,h,i)perylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(k)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzoic acid	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Benzyl alcohol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethoxy)methane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Butylbenzylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Chrysene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-butylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-octylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzo(a,h)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzofuran	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Diethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dimethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluorene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobutadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorocyclopentadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachloroethane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Indeno(1,2,3-cd)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Isophorone	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitrosodiphenylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Naphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Nitrobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Phenanthrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20925 **Workorder ID** 1800 Powel Street

Laboratory ID 20925002 **Sampled** 05/19/14
Sample ID STKP-2 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8270C GC/MS Semi-Vol. (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-chloroisopropyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-ethylhexyl)phthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

Surrogates	Result	Recovery	Limits
2,4,6-Tribromophenol	4430 ug/kg	66 %	(10 - 135)
2-Fluorobiphenyl	1610 ug/kg	48 %	(30 - 135)
2-Fluorophenol	3940 ug/kg	59 %	(21 - 110)
p-Terphenyl-D14	2410 ug/kg	72 %	(33 - 145)
Nitrobenzene-D5	2110 ug/kg	63 %	(25 - 134)
Phenol-D6	3980 ug/kg	60 %	(10 - 110)

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472870 [VMXV/3591]
Laboratory ID	111285	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1,1,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,1-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromo-3-chloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromoethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3,5-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,4-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2,2-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Butanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chloroethylvinyl ether	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Hexanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Isopropyltoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Methyl-2-pentanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acetone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrolein	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrylonitrile	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromodichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromoform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon disulfide	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon tetrachloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472870 [VMXV/3591]
Laboratory ID	111285	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Chlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichlorodifluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Hexachlorobutadiene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Iodomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Isopropylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Naphthalene	8260B S	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Styrene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Tetrachloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichlorofluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl acetate	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl chloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
m,p-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Propylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
o-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
sec-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
tert-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	52 ug/kg	104 %	(65 - 135)
Toluene d8	54 ug/kg	108 %	(65 - 135)
4-Bromofluorobenzene	51 ug/kg	102 %	(65 - 135)

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Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111286
Sample ID LCS for HBN 472870 [VMXV/3591]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	41	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	47	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	47	2.0	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111287
Sample ID LCSD for HBN 472870 [VMXV/3591
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	39	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	46	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy
Laboratory ID 111288
Sample ID MS for HBN 472870 [VMXV/3591]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	39	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	47	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	46	2.0	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111289
Sample ID MSD for HBN 472870 [VMXV/3591]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	48	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	46	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	49	2.0	ug/kg	1:1

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Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472870 [VMXV/3591]
Laboratory ID 111289 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Trichloroethene	8260B S	05/21/14	05/21/14	48	2.0	ug/kg	1:1

Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472872 [VGXV/3256]
Laboratory ID 111290 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	14.9 ug/kg	74 %	(65 - 135)

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472872 [VGXV/3256]
Laboratory ID 111291 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	0.92	0.50	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472872 [VGXV/3256
Laboratory ID 111292 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	0.88	0.50	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472872 [VGXV/3256]
Laboratory ID 111293 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	1.4	0.50	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472872 [VGXV/3256]
Laboratory ID	111294	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	1.4	0.50	mg/Kg	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472874 [SMXV/1683]
Laboratory ID	111295	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,2-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,3-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4,5-Trichlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4,6-Trichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dimethylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dinitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,6-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chloronaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylnaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylphenol(o-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2-Nitrophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
3,3'-Dichlorobenzidine	8270C	05/20/14	05/21/14	ND	660	ug/kg	1:1
3-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4,6-Dinitro-2-methylphenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Bromophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloroaniline	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chlorophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Methylphenol(p-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Acenaphthylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(a)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472874 [SMXV/1683]
Laboratory ID	111295	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Benzo(a)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(b)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(g,h,i)perylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(k)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzoic acid	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Benzyl alcohol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethoxy)methane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Butylbenzylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Chrysene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-butylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-octylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzo(a,h)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzofuran	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Diethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dimethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluorene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobutadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorocyclopentadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachloroethane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Indeno(1,2,3-cd)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Isophorone	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitrosodiphenylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Naphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Nitrobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Phenanthrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-chloroisopropyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-ethylhexyl)phthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

Surrogates	Result	Recovery	Limits
2,4,6-Tribromophenol	4920 ug/kg	74 %	(10 - 135)

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Method Blank Report

Client ID Au Energy
Laboratory ID 111295
Sample ID MB for HBN 472874 [SMXV/1683]
Matrix Soil

Surrogates	Result	Recovery	Limits
2-Fluorobiphenyl	2070 ug/kg	62 %	(30 - 135)
2-Fluorophenol	4970 ug/kg	75 %	(21 - 110)
p-Terphenyl-D14	3430 ug/kg	103 %	(33 - 141)
Nitrobenzene-D5	2220 ug/kg	66 %	(25 - 134)
Phenol-D6	5000 ug/kg	75 %	(10 - 110)

Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111296
Sample ID LCS for HBN 472874 [SMXV/1683]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2080	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	1900	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2710	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	3730	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	3820	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	5300	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	2770	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	2160	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	6700	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	3340	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	3500	330	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111297
Sample ID LCSD for HBN 472874 [SMXV/1683
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2100	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	1930	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2640	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	3870	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	3940	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	5380	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	2890	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	2180	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	6830	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	3430	330	ug/kg	1:1

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Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472874 [SMXV/1683
Laboratory ID 111297 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Pyrene	8270C	05/20/14	05/21/14	3240	330	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472874 [SMXV/1683]
Laboratory ID 111298 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2490	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	2450	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2420	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	5660	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	5160	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	3640	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	4290	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	3340	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	5370	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	4950	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	5550	330	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472874 [SMXV/1683]
Laboratory ID 111299 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2420	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	2340	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2040	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	5220	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	4830	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	4950	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	2910	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	3600	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	5090	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	4930	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	5050	330	ug/kg	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472876 [PCBV/1402]
Laboratory ID	111300	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1016	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1221	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1232	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1242	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1248	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1254	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1260	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Decachlorobiphenyl (DCB)	0.0205mg/Kg	123 %	(35 - 145)
Tetrachlorometaxylene (TCMX)	0.0126mg/Kg	76 %	(35 - 145)

Lab Control Sample Report

Client ID	Au Energy	**Sample ID**	LCS for HBN 472876 [PCBV/1402]
Laboratory ID	111301	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.255	0.0200	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID	Au Energy	**Sample ID**	LCSD for HBN 472876 [PCBV/1402
Laboratory ID	111302	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.251	0.0200	mg/Kg	1:1

Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 472876 [PCBV/1402]
Laboratory ID	111303	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.219	0.0200	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111304
Sample ID MSD for HBN 472876 [PCBV/1402]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.186	0.0200	mg/Kg	1:1

Method Blank Report

Client ID Au Energy
Laboratory ID 111305
Sample ID MB for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	ND	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	ND	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	ND	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	ND	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	ND	1.5	mg/Kg	1:1

Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111306
Sample ID LCS for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	50	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	52	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.9	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	20	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	47	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	18	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	49	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	51	1.0	mg/Kg	1:1

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Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472878 [ICPV/7065]
Laboratory ID 111306 **Matrix** Soil

Parameter (continued)	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Molybdenum	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	95	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	53	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.8	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	47	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	19	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	49	1.5	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472878 [ICPV/7065
Laboratory ID 111307 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	50	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	53	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.8	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	20	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	47	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	18	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	49	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	52	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	96	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	53	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.8	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	48	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	19	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	49	1.5	mg/Kg	1:1

Duplicate Report

Client ID Au Energy **Sample ID** DUP for HBN 472878 [ICPV/7065]
Laboratory ID 111308 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1

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Duplicate Report

Client ID Au Energy
Laboratory ID 111308
Sample ID DUP for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter (continued)	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Arsenic	6010B S	05/20/14	05/22/14	13	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	69	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	26	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	7.6	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	87	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	37	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	33	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	25	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	210	1.5	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy
Laboratory ID 111309
Sample ID MS for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	43	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	69	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	111	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.4	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	20	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	71	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	23	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	118	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	77	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	49	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	117	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	50	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.3	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	35	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	40	1.0	mg/Kg	1:1

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Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 472878 [ICPV/7065]
Laboratory ID	111309	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Zinc	6010B S	05/20/14	05/22/14	189	1.5	mg/Kg	1:1

Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472878 [ICPV/7065]
Laboratory ID	111310	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	45	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	71	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	88	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.4	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	19	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	72	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	23	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	91	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	63	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	48	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	116	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	50	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.3	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	35	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	38	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	125	1.5	mg/Kg	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472880 [ICPV/7066]
Laboratory ID	111311	**Matrix**	STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472880 [ICPV/7066]
Laboratory ID 111311 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	ND	0.075	mg/L	1:1

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472880 [ICPV/7066]
Laboratory ID 111312 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.5	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.49	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	1.0	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.4	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.93	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.5	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.9	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.7	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.24	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	0.95	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	2.5	0.075	mg/L	1:1

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Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111313
Sample ID LCSD for HBN 472880 [ICPV/7066
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.5	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	2.7	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.49	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	1.0	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.4	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.93	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.4	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.9	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.24	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	0.95	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	2.5	0.075	mg/L	1:1

Duplicate Report

Client ID Au Energy
Laboratory ID 111314
Sample ID DUP for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	0.60	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	2.0	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	1.1	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	9.9	0.075	mg/L	1:1

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Matrix Spike Report

Client ID Au Energy
Laboratory ID 111315
Sample ID MS for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.2	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	3.1	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	4.1	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.42	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	0.89	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.0	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.84	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.2	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	3.2	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.3	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.2	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.5	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.20	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	1.8	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	1.1	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	12	0.075	mg/L	1:1

Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111316
Sample ID MSD for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.2	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	3.1	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	4.2	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.43	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	0.89	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.0	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.84	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.3	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	3.2	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.3	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.2	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.20	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	1.8	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	1.1	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	12	0.075	mg/L	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472882 [DIGV/2120]
Laboratory ID 111317 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	ND	0.0050	mg/Kg	1:1

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472882 [DIGV/2120]
Laboratory ID 111318 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.053	0.0050	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472882 [DIGV/2120
Laboratory ID 111319 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.052	0.0050	mg/Kg	1:1

Duplicate Report

Client ID Au Energy **Sample ID** DUP for HBN 472882 [DIGV/2120]
Laboratory ID 111320 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.017	0.0050	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472882 [DIGV/2120]
Laboratory ID 111321 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.049	0.0050	mg/Kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472882 [DIGV/2120]
Laboratory ID 111322 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.049	0.0050	mg/Kg	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472884 [DIGV/2121]
Laboratory ID 111323 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	ND	0.001	mg/L	1:1

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472884 [DIGV/2121]
Laboratory ID 111324 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.01	0.001	mg/L	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472884 [DIGV/2121
Laboratory ID 111325 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.009	0.001	mg/L	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472884 [DIGV/2121]
Laboratory ID 111327 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.009	0.001	mg/L	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472884 [DIGV/2121]
Laboratory ID 111328 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.009	0.001	mg/L	1:1

Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472886 [VMXV/3592]
Laboratory ID 111329 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472886 [VMXV/3592]
Laboratory ID 111329 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50.2 ug/kg	100 %	(65 - 135)

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472886 [VMXV/3592]
Laboratory ID 111330 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	271	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	54	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	52	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	56	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	57	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	169	1.0	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472886 [VMXV/3592
Laboratory ID 111331 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	258	10	ug/kg	1:1

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Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472886 [VMXV/3592
Laboratory ID 111331 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	52	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	50	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	51	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	51	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	52	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	55	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	56	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	165	1.0	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472886 [VMXV/3592]
Laboratory ID 111332 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	194	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	49	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	51	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	52	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	55	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	58	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	59	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	176	1.0	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472886 [VMXV/3592]
Laboratory ID 111333 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	218	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	55	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	54	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	57	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	56	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	59	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	62	1.0	ug/kg	1:1

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Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472886 [VMXV/3592]
Laboratory ID	111333	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	63	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	186	1.0	ug/kg	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472900 [SGXV/2937]
Laboratory ID	111339	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	ND	1.0	mg/Kg	1:1
TPHmotor oil	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:1
TPHkerosene	8015B TEPH S	05/20/14	05/20/14	ND	1.0	mg/Kg	1:1

Lab Control Sample Report

Client ID	Au Energy	**Sample ID**	LCS for HBN 472900 [SGXV/2937]
Laboratory ID	111340	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	43	1.0	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID	Au Energy	**Sample ID**	LCSD for HBN 472900 [SGXV/2937
Laboratory ID	111341	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	46	1.0	mg/Kg	1:1

Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 472900 [SGXV/2937]
Laboratory ID	111342	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	132	1.0	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472900 [SGXV/2937]
Laboratory ID	111343	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	142	1.0	mg/Kg	1:1

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	ICPP 7080	**Sample**	**Duplicate [111308]**
Matrix	Soil		

Parameter	RPD	RPD Limits
Antimony	17.6	(35)
Arsenic*	45.2*	(35)
Barium	25.0	(35)
Beryllium	0000	(35)
Cadmium	0000	(35)
Chromium	2.32	(35)
Cobalt	16.5	(35)
Copper	117	(35)
Lead	31.1	(35)
Molybdenum	0000	(35)
Nickel	18.6	(35)
Selenium	0000	(35)
Silver	0000	(35)
Thallium	0000	(35)
Vanadium	25.9	(35)
Zinc*	87.9*	(35)

Client ID	Au Energy	**Original**	20925001
QC Batch	ICPP 7081	**Sample**	**Duplicate [111314]**
Matrix	STLC		

Parameter	RPD	RPD Limits
Antimony	00	(35)
Arsenic	1.0	(35)
Barium	2.2	(35)
Beryllium	00	(35)
Cadmium	00	(35)
Chromium	00	(35)
Cobalt	00	(35)
Copper	00	(35)
Lead	1.3	(35)
Molybdenum	00	(35)
Nickel	00	(35)
Selenium	00	(35)
Silver	00	(35)
Thallium	00	(35)
Vanadium	00	(35)
Zinc	2.5	(35)

* High RPD due to sample matrix effect.

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	DIG 2131	**Sample**	**Duplicate [111320]**
Matrix	Soil		

Parameter	RPD	RPD Limits
Mercury	26.7	(35)

Client ID	Au Energy	**Original**	20925001
QC Batch	VMX 3629	**Samples**	Matrix Spike [111288]
Matrix	Soil		Matrix Spike Duplicate [111289]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
1,1-Dichloroethene	78	86	(60-135)	9.8	(20 MAX)
Benzene	90	96	(65-135)	6.5	(20 MAX)
Trichloroethene	92	96	(60-135)	4.3	(20 MAX)
Toluene	94	98	(60-135)	4.2	(20 MAX)
Chlorobenzene	86	92	(65-135)	6.7	(20 MAX)

Client ID	Au Energy	**Original**	20925001
QC Batch	VGX 3376	**Samples**	Matrix Spike [111293]
Matrix	Soil		Matrix Spike Duplicate [111294]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	95	96	(65-135)	1.0	(20 MAX)

Client ID	Au Energy	**Original**	20927001
QC Batch	SMX 1696	**Samples**	Matrix Spike [111298]
Matrix	Soil		Matrix Spike Duplicate [111299]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Phenol	74	74	(20-110)	00	(35 MAX)
2-Chlorophenol	85	78	(25-123)	8.6	(50 MAX)
1,4-Dichlorobenzene	73	70	(28-120)	4.2	(50 MAX)
N-Nitroso-di-propylamine	100	108	(41-135)	7.7	(45 MAX)
1,2,4-Trichlorobenzene	75	73	(38-135)	2.7	(40 MAX)
4-Chloro-3-methylphenol	77	72	(26-137)	6.7	(33 MAX)
Acenaphthene	129	87	(31-135)	39	(24 MAX)
4-Nitrophenol	55	74	(11-140)	29	(50 MAX)
2,4-Dinitrotoluene	73	61	(20-135)	18	(47 MAX)

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QC SUMMARY

Client ID	Au Energy	**Original**	20927001
QC Batch	SMX 1696	**Samples**	Matrix Spike [111298]
Matrix	Soil		Matrix Spike Duplicate [111299]
			(continued)

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Pentachlorophenol	81	76	(17-180)	6.4	(47 MAX)
Pyrene	144	129	(35-135)	11	(36 MAX)

Client ID	Au Energy	**Original**	20927001
QC Batch	PCBX 1419	**Samples**	Matrix Spike [111303]
Matrix	Soil		Matrix Spike Duplicate [111304]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
PCB 1260	66	56	(35-135)	16	(20 MAX)

Client ID	Au Energy	**Original**	20925001
QC Batch	ICPP 7080	**Samples**	Matrix Spike [111309]
Matrix	Soil		Matrix Spike Duplicate [111310]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	82.3	86.7	(75-125)	5.21	(35 MAX)
Arsenic	96.8	100	(75-125)	3.25	(35 MAX)
Barium*	114	68.1*	(75-125)	50.4*	(35 MAX)
Beryllium	94.1	93.6	(75-125)	0.5330	(35 MAX)
Cadmium	97.6	96.4	(75-125)	1.24	(35 MAX)
Chromium	91.1	94.1	(75-125)	3.24	(35 MAX)
Cobalt	82.8	84.4	(75-125)	1.91	(35 MAX)
Copper*	191*	135*	(75-125)	34.4	(35 MAX)
Lead*	98.5	70.8*	(75-125)	32.7	(35 MAX)
Molybdenum	98.1	96.1	(75-125)	2.06	(35 MAX)
Nickel	89.7	88.6	(75-125)	1.23	(35 MAX)
Selenium	99.1	99.4	(75-125)	0.3020	(35 MAX)
Silver	86.7	85.0	(75-125)	1.98	(35 MAX)
Thallium*	69.5*	70.5*	(75-125)	1.43	(35 MAX)
Vanadium	103	94.3	(75-125)	8.82	(35 MAX)
Zinc*	214*	86.7	(75-125)	84.7*	(35 MAX)

* High/Low MS/MSD recoveries due to sample matrix effect.

* High RPD due to sample matrix effect.

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	ICPP 7081	**Samples**	Matrix Spike [111315]
Matrix	STLC		Matrix Spike Duplicate [111316]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	90	90	(60-125)	00	(35 MAX)
Arsenic	99	99	(60-125)	00	(35 MAX)
Barium	85	87	(60-125)	2.3	(35 MAX)
Beryllium	85	86	(60-125)	1.2	(35 MAX)
Cadmium	89	89	(60-125)	00	(35 MAX)
Chromium	81	81	(60-125)	00	(35 MAX)
Cobalt	84	84	(60-125)	00	(35 MAX)
Copper	90	90	(60-125)	00	(35 MAX)
Lead	83	84	(60-125)	1.2	(35 MAX)
Molybdenum	91	91	(60-125)	00	(35 MAX)
Nickel	84	84	(60-125)	00	(35 MAX)
Selenium	102	104	(60-125)	1.9	(35 MAX)
Silver	79	80	(60-125)	1.3	(35 MAX)
Thallium	70	70	(60-125)	00	(35 MAX)
Vanadium	109	111	(60-125)	1.8	(35 MAX)
Zinc	79	85	(60-125)	7.3	(35 MAX)

Client ID	Au Energy	**Original**	20925001
QC Batch	DIG 2131	**Samples**	Matrix Spike [111321]
Matrix	Soil		Matrix Spike Duplicate [111322]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury*	72.0*	72.0*	(75-125)	0000	(35 MAX)

Client ID	Au Energy	**Original**	20925001
QC Batch	DIG 2132	**Samples**	Matrix Spike [111327]
Matrix	STLC		Matrix Spike Duplicate [111328]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury*	68*	68*	(70-125)	00	(35 MAX)

* Low MS/MSD recoveries due to sample matrix effect.

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QC SUMMARY

Client ID Au Energy
QC Batch VMX 3630
Matrix Soil
Original Samples 20925001
Matrix Spike [111332]
Matrix Spike Duplicate [111333]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Tertiary butanol	78	87	(65-135)	11	(20 MAX)
Methyl-tert-butyl-ether	98	110	(65-135)	12	(20 MAX)
Di-isopropyl ether	102	108	(65-135)	5.7	(20 MAX)
Ethyl tert butyl ether	106	114	(65-135)	7.3	(20 MAX)
Tert amyl methyl ether	104	112	(65-135)	7.4	(20 MAX)
Benzene	110	118	(65-135)	7.0	(20 MAX)
Toluene	116	124	(65-135)	6.7	(20 MAX)
Ethylbenzene	118	126	(65-135)	6.6	(20 MAX)
Xylene,Total	117	124	(65-135)	5.8	(20 MAX)

Client ID Au Energy
QC Batch SGX 2964
Matrix Soil
Original Samples 20926001
Matrix Spike [111342]
Matrix Spike Duplicate [111343]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHdiesel*	-276*	-256*	(65-135)	-7.5*	(20 MAX)

Client ID Au Energy
QC Batch VMX 3629
Matrix Soil
Samples Lab Control Sample [111286]
Lab Control Sample Duplicate [111287]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
1,1-Dichloroethene	82	78	(65-135)	5.0	(20 MAX)
Benzene	90	90	(65-135)	00	(20 MAX)
Trichloroethene	94	90	(65-135)	4.3	(20 MAX)
Toluene	94	92	(65-135)	2.2	(20 MAX)
Chlorobenzene	86	86	(65-135)	00	(20 MAX)

Client ID Au Energy
QC Batch VGX 3376
Matrix Soil
Samples Lab Control Sample [111291]
Lab Control Sample Duplicate [111292]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	92	88	(65-135)	4.4	(20 MAX)

* Loss of MS/MSD recoveries due to sample matrix effect.

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QC SUMMARY

Client ID Au Energy
QC Batch SMX 1696
Matrix Soil
Samples Lab Control Sample [111296]
Lab Control Sample Duplicate [111297]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Phenol	50	51	(18-110)	2.0	(35 MAX)
2-Chlorophenol	56	58	(20-125)	3.5	(50 MAX)
1,4-Dichlorobenzene	57	58	(28-125)	1.7	(50 MAX)
N-Nitroso-di-propylamine	65	65	(35-150)	00	(45 MAX)
1,2,4-Trichlorobenzene	62	63	(38-120)	1.6	(40 MAX)
4-Chloro-3-methylphenol	57	59	(19-150)	3.4	(33 MAX)
Acenaphthene	83	87	(21-137)	4.7	(36 MAX)
4-Nitrophenol	80	81	(11-114)	1.2	(50 MAX)
2,4-Dinitrotoluene	81	79	(28-135)	2.5	(47 MAX)
Pentachlorophenol	101	102	(17-190)	1.0	(47 MAX)
Pyrene	105	97	(35-142)	7.9	(45 MAX)

Client ID Au Energy
QC Batch PCBX 1419
Matrix Soil
Samples Lab Control Sample [111301]
Lab Control Sample Duplicate [111302]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
PCB 1260	77	75	(35-135)	2.6	(20 MAX)

Client ID Au Energy
QC Batch ICPP 7080
Matrix Soil
Samples Lab Control Sample [111306]
Lab Control Sample Duplicate [111307]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	100	101	(80-120)	0.9950	(20 MAX)
Arsenic	103	106	(80-120)	2.87	(20 MAX)
Barium	104	102	(80-120)	1.94	(20 MAX)
Beryllium	98.7	98.0	(80-120)	0.7120	(20 MAX)
Cadmium	99.1	99.5	(80-120)	0.4030	(20 MAX)
Chromium	94.0	94.8	(80-120)	0.8470	(20 MAX)
Cobalt	91.6	91.8	(80-120)	0.2180	(20 MAX)
Copper	98.1	97.5	(80-120)	0.6130	(20 MAX)
Lead	102	104	(80-120)	1.94	(20 MAX)
Molybdenum	102	102	(80-120)	0000	(20 MAX)
Nickel	95.1	96.0	(80-120)	0.9420	(20 MAX)
Selenium	105	106	(80-120)	0.9480	(20 MAX)
Silver	96.5	96.4	(80-120)	0.1040	(20 MAX)
Thallium	93.8	95.1	(80-120)	1.38	(20 MAX)
Vanadium	92.7	93.7	(80-120)	1.07	(20 MAX)

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QC SUMMARY

Client ID	Au Energy	**Samples**	Lab Control Sample [111306]
QC Batch	ICPP 7080		Lab Control Sample Duplicate [111307]
Matrix	Soil		**(continued)**

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Zinc	97.1	97.7	(80-120)	0.6160	(20 MAX)

Client ID	Au Energy	**Samples**	Lab Control Sample [111312]
QC Batch	ICPP 7081		Lab Control Sample Duplicate [111313]
Matrix	STLC		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	100	99	(80-120)	1.0	(20 MAX)
Arsenic	105	107	(80-120)	1.9	(20 MAX)
Barium	106	105	(80-120)	0.90	(20 MAX)
Beryllium	99	99	(80-120)	00	(20 MAX)
Cadmium	101	101	(80-120)	00	(20 MAX)
Chromium	96	95	(80-120)	1.0	(20 MAX)
Cobalt	93	93	(80-120)	00	(20 MAX)
Copper	98	98	(80-120)	00	(20 MAX)
Lead	102	104	(80-120)	1.9	(20 MAX)
Molybdenum	103	103	(80-120)	00	(20 MAX)
Nickel	98	97	(80-120)	1.0	(20 MAX)
Selenium	106	105	(80-120)	0.90	(20 MAX)
Silver	96	97	(80-120)	1.0	(20 MAX)
Thallium	102	102	(80-120)	00	(20 MAX)
Vanadium	95	95	(80-120)	00	(20 MAX)
Zinc	100	99	(80-120)	1.0	(20 MAX)

Client ID	Au Energy	**Samples**	Lab Control Sample [111318]
QC Batch	DIG 2131		Lab Control Sample Duplicate [111319]
Matrix	Soil		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury	106	104	(80-120)	1.90	(20 MAX)

Client ID	Au Energy	**Samples**	Lab Control Sample [111324]
QC Batch	DIG 2132		Lab Control Sample Duplicate [111325]
Matrix	STLC		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury	96	93	(70-120)	3.2	(20 MAX)

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QC SUMMARY

Client ID Au Energy
QC Batch VMX 3630
Matrix Soil
Samples Lab Control Sample [111330]
Lab Control Sample Duplicate [111331]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Tertiary butanol	108	103	(65-135)	4.7	(20 MAX)
Methyl-tert-butyl-ether	108	104	(65-135)	3.8	(20 MAX)
Di-isopropyl ether	104	100	(65-135)	3.9	(20 MAX)
Ethyl tert butyl ether	106	102	(65-135)	3.8	(20 MAX)
Tert amyl methyl ether	106	102	(65-135)	3.8	(20 MAX)
Benzene	106	104	(65-135)	1.9	(20 MAX)
Toluene	112	110	(65-135)	1.8	(20 MAX)
Ethylbenzene	114	112	(65-135)	1.8	(20 MAX)
Xylene,Total	113	110	(65-135)	2.7	(20 MAX)

Client ID Au Energy
QC Batch SGX 2964
Matrix Soil
Samples Lab Control Sample [111340]
Lab Control Sample Duplicate [111341]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHdiesel	86	92	(65-135)	6.7	(20 MAX)

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Sparger Technology, Inc.
Environmental Laboratories

3738 Bradview Drive
Sacramento, CA 95827
Lab: (916) 369-7688
Fax: (916) 369-7689

Profile/COC No: **20925** — —

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): **Sunny Goyal**	California EDF Report? ☐ Yes ☑ No
Company / Address: **Au Energy** **4185 Albrae Street** **Fremont, CA 94538**	Sampling Company Log Code: NA
Phone #: 510-270-3411 / Fax #: 510-270-3411	Global ID: NA
Project #: / P.O. #: 051914A	PDF/EDF Deliverable To (Email Address): Sunny@vintnersdist.com; johne@vintnersdist.com
Project Name: 1800 Powell Street	Sampler Signature: / Sampler Name (PRINT): Ray James
Project Address:	

	Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: 1-L amber	Container: Tedlar	Container: Other:	Preservative: HCl	Preservative: HNO_3	Preservative: NaOH	Preservative: H_2SO_4	Preservative: Other: 4°C / ICE	Matrix: Water	Matrix: Soil	Matrix: Air	Matrix: Other:	Analysis Request: TPH Gas (EPA 8015M)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	5 Oxygenates / BTEX / Naphthalene (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	7 Oxygenates / BTEX (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Cam 5 (EPA 6010B): Cd, Cr, Pb, Ni, Zn	Cam 17 (EPA 6010B)	Cam 17 WET / TCLP (EPA 6010B)	Organic Lead (LUFT)	8270C SVOCs	8082 PCB	6010B STLC Cam 17				TAT	For Lab Use Only
1	STKP-1A	5/19/14	10:30		X									X		X			X	X	X	X	X		X		X			X	X	X				X	
2	STKP-1B		10:35		X									X		X			X	X	X	X	X		X		X			X	X	X				X	
3	STKP-1C		10:40		X									X		X			X	X	X	X	X		X		X			X	X	X				X	
4	STKP-1D		10:45		X									X		X			X	X	X	X	X		X		X			X	X	X				X	
5	STKP-2A		10:50		X									X		X			X	X	X	X	X		X		X			X	X	X				X	
6	STKP-2B		10:55		X									X		X			X	X	X	X	X		X		X			X	X	X				X	
7	STKP-2C		10:57		X									X		X			X	X	X	X	X		X		X			X	X	X				X	
8	STKP-2D	5/19/14	11:00		X									X		X			X	X	X	X	X		X		X			X	X	X				X	
9																																						
10																																						

Relinquished by:	Date	Time	Received by:	Date	Time
Ray James	5/19/14	15:00	[illegible]	5/19/14	15:00
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Laboratory:	Date	Time

Remarks: Soil Comp 1 and comp 2

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Condition
4	RS	5/19/14	15:00	O.K.

Sparger Technology, Inc.
Environmental Laboratories

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Sunny Goyal
Au Energy
4185 Albrae Street
Fremont, CA 94538

Client	Au Energy
Workorder	20926 1800 Powel Street
Received	05/19/14

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

Sparger Technology, Inc. ID Suffix Keys - These descriptors will follow the Sparger Technology, Inc. ID numbers and help identify the specific sample and clarify the report.

- DUP - Matrix Duplicate
- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- LCS - Lab Control Sample
- LCSD - Lab Control Sample Duplicate
- RPD - Relative Percent Difference
- QC - Additional Quality Control
- DIL - Results from a diluted sample
- ND - None Detected
- RL - Reporting Limit

Note: In an effort to conserve paper, the results are printed on both sides of the paper.

Ray James
Laboratory Director

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Sunny Goyal
Au Energy
4185 Albrae Street
Fremont, CA 94538

Workorder 20926

Enclosed are the results from samples received on May 19, 2014.

The requested analyses are listed below.

SAMPLE	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
20926001	STKP-3 (A,B,C,D)-COMP, Pea Gravel	05/19/14	8015B TEPH S 8015B TPHgas S 8260B BTEX/FOC S 8260B S 6010B STLC 6010B S 7470A STLC HG 7471A S HG 8082 S 8270C
20926002	STKP-4 (A,B,C,D)-COMP, Pea Gravel	05/19/14	8015B TEPH S 8015B TPHgas S 8260B BTEX/FOC S 8260B S 6010B STLC 6010B S 7470A STLC HG 7471A S HG 8082 S 8270C

Test Certificate of Analysis

Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926001 **Sampled** 05/19/14
Sample ID STKP-3 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8015B TEPH

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	**8015B TEPH S**	**05/20/14**	**05/20/14**	**270**	**10**	**mg/Kg**	**1:10**
TPHmotor oil	8015B TEPH S	05/20/14	05/20/14	ND	100	mg/Kg	1:10
TPHkerosene	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:10

Laboratory ID 20926001 **Sampled** 05/19/14
Sample ID STKP-3 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	14.1 ug/kg	70 %	(65 - 135)

Laboratory ID 20926001 **Sampled** 05/19/14
Sample ID STKP-3 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	48 ug/kg	96 %	(65 - 135)

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Sparger Technology, Inc.
Environmental Laboratories

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926001 **Sampled** 05/19/14
Sample ID STKP-3 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8260B GC/MS Volatiles

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1,1,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,1-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromo-3-chloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromoethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3,5-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,4-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2,2-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Butanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chloroethylvinyl ether	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Hexanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Isopropyltoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Methyl-2-pentanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acetone	**8260B S**	**05/21/14**	**05/21/14**	**30**	**2.0**	**ug/kg**	**1:1**
Acrolein	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrylonitrile	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromodichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromoform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926001 **Sampled** 05/19/14
Sample ID STKP-3 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8260B GC/MS Volatiles (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Bromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon disulfide	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon tetrachloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichlorodifluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Hexachlorobutadiene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Iodomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Isopropylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Naphthalene	8260B S	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Styrene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Tetrachloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichlorofluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl acetate	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl chloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
m,p-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Propylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
o-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
sec-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
tert-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	54 ug/kg	108 %	(65 - 135)

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Test Certificate of Analysis

Client ID	Au Energy	**Workorder ID**	1800 Powel Street
Workorder #	20926	**Sampled**	05/19/14
Laboratory ID	20926001	**Received**	05/19/14
Sample ID	STKP-3 (A,B,C,D)-COMP	**Reported**	05/22/14
Matrix	Pea Gravel		

8260B GC/MS Volatiles - 8260B S (continued)

Surrogates	Result	Recovery	Limits
Toluene d8	52 ug/kg	104 %	(65 - 135)
4-Bromofluorobenzene	55 ug/kg	110 %	(65 - 135)

Laboratory ID	20926001	**Sampled**	05/19/14
Sample ID	STKP-3 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

CAM17 STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	**6010B STLC**	**05/21/14**	**05/22/14**	**0.26**	**0.050**	**mg/L**	**1:1**
Barium	**6010B STLC**	**05/21/14**	**05/22/14**	**1.4**	**0.010**	**mg/L**	**1:1**
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	**6010B STLC**	**05/21/14**	**05/22/14**	**0.21**	**0.050**	**mg/L**	**1:1**
Mercury	**7470A STLC HG**	**05/21/14**	**05/21/14**	**0.002**	**0.001**	**mg/L**	**1:1**
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	**6010B STLC**	**05/21/14**	**05/22/14**	**0.63**	**0.075**	**mg/L**	**1:1**

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926001 **Sampled** 05/19/14
Sample ID STKP-3 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

CAM17 TTLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Arsenic	**6010B S**	**05/20/14**	**05/22/14**	**12**	**2.0**	**mg/Kg**	**1:1**
Barium	**6010B S**	**05/20/14**	**05/22/14**	**49**	**2.0**	**mg/Kg**	**1:1**
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	**6010B S**	**05/20/14**	**05/22/14**	**12**	**1.0**	**mg/Kg**	**1:1**
Cobalt	**6010B S**	**05/20/14**	**05/22/14**	**7.7**	**2.0**	**mg/Kg**	**1:1**
Copper	**6010B S**	**05/20/14**	**05/22/14**	**20**	**2.0**	**mg/Kg**	**1:1**
Lead	**6010B S**	**05/20/14**	**05/22/14**	**10.0**	**1.0**	**mg/Kg**	**1:1**
Mercury	**7471A S HG**	**05/20/14**	**05/21/14**	**0.055**	**0.0050**	**mg/Kg**	**1:1**
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	**6010B S**	**05/20/14**	**05/22/14**	**37**	**4.0**	**mg/Kg**	**1:1**
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	**6010B S**	**05/20/14**	**05/22/14**	**21**	**1.0**	**mg/Kg**	**1:1**
Zinc	**6010B S**	**05/20/14**	**05/22/14**	**45**	**1.5**	**mg/Kg**	**1:1**

Laboratory ID 20926001 **Sampled** 05/19/14
Sample ID STKP-3 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8082 GC PCBs

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1016	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1221	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1232	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1242	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1248	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1254	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1260	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Decachlorobiphenyl (DCB)	0.0042mg/Kg	25 %	(30 - 145)
Tetrachlorometaxylene (TCMX)	0.0104mg/Kg	62 %	(30 - 145)

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926001 **Sampled** 05/19/14
Sample ID STKP-3 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8270C GC/MS Semi-Vol.

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,2-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,3-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4,5-Trichlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4,6-Trichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dimethylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dinitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,6-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chloronaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylnaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylphenol(o-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2-Nitrophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
3,3'-Dichlorobenzidine	8270C	05/20/14	05/21/14	ND	660	ug/kg	1:1
3-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4,6-Dinitro-2-methylphenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Bromophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloroaniline	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chlorophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Methylphenol(p-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Acenaphthylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(a)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(a)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(b)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(g,h,i)perylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(k)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzoic acid	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1

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Sample ID STKP-3 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8270C GC/MS Semi-Vol. (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Benzyl alcohol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethoxy)methane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Butylbenzylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Chrysene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-butylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-octylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzo(a,h)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzofuran	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Diethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dimethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluorene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobutadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorocyclopentadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachloroethane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Indeno(1,2,3-cd)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Isophorone	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitrosodiphenylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Naphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Nitrobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Phenanthrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-chloroisopropyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-ethylhexyl)phthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

Surrogates	Result	Recovery	Limits
2,4,6-Tribromophenol	4980 ug/kg	75 %	(10 - 135)
2-Fluorobiphenyl	1330 ug/kg	40 %	(30 - 135)
2-Fluorophenol	2850 ug/kg	43 %	(21 - 110)
p-Terphenyl-D14	2980 ug/kg	89 %	(33 - 145)
Nitrobenzene-D5	1470 ug/kg	44 %	(25 - 134)

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Client ID	Au Energy	**Workorder ID**	1800 Powel Street
Workorder #	20926	**Sampled**	05/19/14
Laboratory ID	20926001	**Received**	05/19/14
Sample ID	STKP-3 (A,B,C,D)-COMP	**Reported**	05/22/14
Matrix	Pea Gravel		

8270C GC/MS Semi-Vol. - 8270C (continued)

Surrogates	Result	Recovery	Limits
Phenol-D6	2760 ug/kg	41 %	(10 - 110)

Laboratory ID	20926002	**Sampled**	05/19/14
Sample ID	STKP-4 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Pea Gravel	**Reported**	05/22/14

8015B TEPH

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	**8015B TEPH S**	**05/20/14**	**05/20/14**	**550**	**10**	**mg/Kg**	**1:10**
TPHmotor oil	8015B TEPH S	05/20/14	05/20/14	ND	100	mg/Kg	1:10
TPHkerosene	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:10

Laboratory ID	20926002	**Sampled**	05/19/14
Sample ID	STKP-4 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Pea Gravel	**Reported**	05/22/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	15.2 ug/kg	76 %	(65 - 135)

Laboratory ID	20926002	**Sampled**	05/19/14
Sample ID	STKP-4 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Pea Gravel	**Reported**	05/22/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

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Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8260B BTEX/Oxygenates (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	47.5 ug/kg	95 %	(65 - 135)

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8260B GC/MS Volatiles

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1,1,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,1-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromo-3-chloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromoethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3,5-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,4-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2,2-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Butanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chloroethylvinyl ether	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8260B GC/MS Volatiles (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
2-Hexanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Isopropyltoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Methyl-2-pentanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acetone	**8260B S**	**05/21/14**	**05/21/14**	**20**	**2.0**	**ug/kg**	**1:1**
Acrolein	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrylonitrile	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromodichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromoform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon disulfide	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon tetrachloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichlorodifluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Hexachlorobutadiene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Iodomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Isopropylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Naphthalene	8260B S	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Styrene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Tetrachloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichlorofluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl acetate	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl chloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8260B GC/MS Volatiles (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
cis-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
m,p-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Propylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
o-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
sec-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
tert-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	53 ug/kg	106 %	(65 - 135)
Toluene d8	51 ug/kg	102 %	(65 - 135)
4-Bromofluorobenzene	54 ug/kg	108 %	(65 - 135)

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

CAM17 STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	**6010B STLC**	**05/21/14**	**05/22/14**	**0.19**	**0.050**	**mg/L**	**1:1**
Barium	**6010B STLC**	**05/21/14**	**05/22/14**	**1.3**	**0.010**	**mg/L**	**1:1**
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	**6010B STLC**	**05/21/14**	**05/22/14**	**0.17**	**0.050**	**mg/L**	**1:1**
Mercury	**7470A STLC HG**	**05/21/14**	**05/21/14**	**0.002**	**0.001**	**mg/L**	**1:1**
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

CAM17 STLC (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Zinc	**6010B STLC**	**05/21/14**	**05/22/14**	**0.49**	**0.075**	**mg/L**	**1:1**

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

CAM17 TTLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Arsenic	**6010B S**	**05/20/14**	**05/22/14**	**4.8**	**2.0**	**mg/Kg**	**1:1**
Barium	**6010B S**	**05/20/14**	**05/22/14**	**50**	**2.0**	**mg/Kg**	**1:1**
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	**6010B S**	**05/20/14**	**05/22/14**	**14**	**1.0**	**mg/Kg**	**1:1**
Cobalt	**6010B S**	**05/20/14**	**05/22/14**	**5.2**	**2.0**	**mg/Kg**	**1:1**
Copper	**6010B S**	**05/20/14**	**05/22/14**	**14**	**2.0**	**mg/Kg**	**1:1**
Lead	**6010B S**	**05/20/14**	**05/22/14**	**6.2**	**1.0**	**mg/Kg**	**1:1**
Mercury	**7471A S HG**	**05/20/14**	**05/21/14**	**0.038**	**0.0050**	**mg/Kg**	**1:1**
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	**6010B S**	**05/20/14**	**05/22/14**	**41**	**4.0**	**mg/Kg**	**1:1**
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	**6010B S**	**05/20/14**	**05/22/14**	**9.8**	**1.0**	**mg/Kg**	**1:1**
Zinc	**6010B S**	**05/20/14**	**05/22/14**	**30**	**1.5**	**mg/Kg**	**1:1**

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8082 GC PCBs

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1016	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1221	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1232	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1242	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1248	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1254	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1260	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1

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Test Certificate of Analysis

Client ID	Au Energy	**Workorder ID**	1800 Powel Street
Workorder #	20926	**Sampled**	05/19/14
Laboratory ID	20926002	**Received**	05/19/14
Sample ID	STKP-4 (A,B,C,D)-COMP	**Reported**	05/22/14
Matrix	Pea Gravel		

8082 GC PCBs - 8082 S (continued)

Surrogates	Result	Recovery	Limits
Decachlorobiphenyl (DCB)	0.0050mg/Kg	30 %	(30 - 145)
Tetrachlorometaxylene (TCMX)	0.0101mg/Kg	61 %	(30 - 145)

Laboratory ID	20926002	**Sampled**	05/19/14
Sample ID	STKP-4 (A,B,C,D)-COMP	**Received**	05/19/14
Matrix	Pea Gravel	**Reported**	05/22/14

8270C GC/MS Semi-Vol.

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,2-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,3-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4,5-Trichlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4,6-Trichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dimethylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dinitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,6-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chloronaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylnaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylphenol(o-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2-Nitrophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
3,3'-Dichlorobenzidine	8270C	05/20/14	05/21/14	ND	660	ug/kg	1:1
3-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4,6-Dinitro-2-methylphenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Bromophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloroaniline	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chlorophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Methylphenol(p-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8270C GC/MS Semi-Vol. (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
4-Nitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Acenaphthylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(a)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(a)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(b)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(g,h,i)perylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(k)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzoic acid	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Benzyl alcohol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethoxy)methane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Butylbenzylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Chrysene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-butylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-octylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzo(a,h)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzofuran	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Diethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dimethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluorene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobutadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorocyclopentadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachloroethane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Indeno(1,2,3-cd)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Isophorone	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitrosodiphenylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Naphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Nitrobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Phenanthrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20926 **Workorder ID** 1800 Powel Street

Laboratory ID 20926002 **Sampled** 05/19/14
Sample ID STKP-4 (A,B,C,D)-COMP **Received** 05/19/14
Matrix Pea Gravel **Reported** 05/22/14

8270C GC/MS Semi-Vol. (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-chloroisopropyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-ethylhexyl)phthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

Surrogates	Result	Recovery	Limits
2,4,6-Tribromophenol	4910 ug/kg	74 %	(10 - 135)
2-Fluorobiphenyl	1360 ug/kg	41 %	(30 - 135)
2-Fluorophenol	2640 ug/kg	40 %	(21 - 110)
p-Terphenyl-D14	2950 ug/kg	88 %	(33 - 145)
Nitrobenzene-D5	1720 ug/kg	51 %	(25 - 134)
Phenol-D6	2600 ug/kg	39 %	(10 - 110)

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472870 [VMXV/3591]
Laboratory ID	111285	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1,1,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,1-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromo-3-chloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromoethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3,5-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,4-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2,2-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Butanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chloroethylvinyl ether	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Hexanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Isopropyltoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Methyl-2-pentanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acetone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrolein	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrylonitrile	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromodichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromoform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon disulfide	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon tetrachloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472870 [VMXV/3591]
Laboratory ID	111285	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Chlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichlorodifluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Hexachlorobutadiene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Iodomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Isopropylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Naphthalene	8260B S	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Styrene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Tetrachloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichlorofluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl acetate	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl chloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
m,p-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Propylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
o-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
sec-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
tert-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	52 ug/kg	104 %	(65 - 135)
Toluene d8	54 ug/kg	108 %	(65 - 135)
4-Bromofluorobenzene	51 ug/kg	102 %	(65 - 135)

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Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111286
Sample ID LCS for HBN 472870 [VMXV/3591]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	41	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	47	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	47	2.0	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111287
Sample ID LCSD for HBN 472870 [VMXV/3591
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	39	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	46	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy
Laboratory ID 111288
Sample ID MS for HBN 472870 [VMXV/3591]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	39	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	47	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	46	2.0	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111289
Sample ID MSD for HBN 472870 [VMXV/3591]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	48	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	46	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	49	2.0	ug/kg	1:1

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Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472870 [VMXV/3591]
Laboratory ID 111289 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Trichloroethene	8260B S	05/21/14	05/21/14	48	2.0	ug/kg	1:1

Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472872 [VGXV/3256]
Laboratory ID 111290 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	14.9 ug/kg	74 %	(65 - 135)

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472872 [VGXV/3256]
Laboratory ID 111291 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	0.92	0.50	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472872 [VGXV/3256
Laboratory ID 111292 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	0.88	0.50	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472872 [VGXV/3256]
Laboratory ID 111293 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	1.4	0.50	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472872 [VGXV/3256]
Laboratory ID 111294 **Matrix** **Pea Gravel**

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	1.4	0.50	mg/Kg	1:1

Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472874 [SMXV/1683]
Laboratory ID 111295 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,2-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,3-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4,5-Trichlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4,6-Trichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dimethylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dinitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,6-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chloronaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylnaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylphenol(o-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2-Nitrophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
3,3'-Dichlorobenzidine	8270C	05/20/14	05/21/14	ND	660	ug/kg	1:1
3-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4,6-Dinitro-2-methylphenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Bromophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloroaniline	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chlorophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Methylphenol(p-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Acenaphthylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(a)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472874 [SMXV/1683]
Laboratory ID	111295	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Benzo(a)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(b)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(g,h,i)perylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(k)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzoic acid	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Benzyl alcohol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethoxy)methane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Butylbenzylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Chrysene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-butylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-octylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzo(a,h)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzofuran	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Diethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dimethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluorene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobutadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorocyclopentadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachloroethane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Indeno(1,2,3-cd)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Isophorone	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitrosodiphenylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Naphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Nitrobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Phenanthrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-chloroisopropyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-ethylhexyl)phthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

Surrogates	Result	Recovery	Limits
2,4,6-Tribromophenol	4920 ug/kg	74 %	(10 - 135)

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Method Blank Report

Client ID Au Energy
Laboratory ID 111295
Sample ID MB for HBN 472874 [SMXV/1683]
Matrix Soil

Surrogates	Result	Recovery	Limits
2-Fluorobiphenyl	2070 ug/kg	62 %	(30 - 135)
2-Fluorophenol	4970 ug/kg	75 %	(21 - 110)
p-Terphenyl-D14	3430 ug/kg	103 %	(33 - 141)
Nitrobenzene-D5	2220 ug/kg	66 %	(25 - 134)
Phenol-D6	5000 ug/kg	75 %	(10 - 110)

Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111296
Sample ID LCS for HBN 472874 [SMXV/1683]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2080	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	1900	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2710	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	3730	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	3820	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	5300	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	2770	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	2160	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	6700	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	3340	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	3500	330	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111297
Sample ID LCSD for HBN 472874 [SMXV/1683
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2100	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	1930	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2640	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	3870	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	3940	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	5380	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	2890	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	2180	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	6830	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	3430	330	ug/kg	1:1

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Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472874 [SMXV/1683
Laboratory ID 111297 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Pyrene	8270C	05/20/14	05/21/14	3240	330	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472874 [SMXV/1683]
Laboratory ID 111298 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2490	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	2450	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2420	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	5660	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	5160	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	3640	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	4290	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	3340	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	5370	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	4950	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	5550	330	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472874 [SMXV/1683]
Laboratory ID 111299 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2420	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	2340	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2040	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	5220	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	4830	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	4950	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	2910	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	3600	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	5090	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	4930	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	5050	330	ug/kg	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472876 [PCBV/1402]
Laboratory ID 111300 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1016	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1221	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1232	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1242	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1248	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1254	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1260	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Decachlorobiphenyl (DCB)	0.0205mg/Kg	123 %	(35 - 145)
Tetrachlorometaxylene (TCMX)	0.0126mg/Kg	76 %	(35 - 145)

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472876 [PCBV/1402]
Laboratory ID 111301 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.255	0.0200	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472876 [PCBV/1402
Laboratory ID 111302 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.251	0.0200	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472876 [PCBV/1402]
Laboratory ID 111303 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.219	0.0200	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111304
Sample ID MSD for HBN 472876 [PCBV/1402]
Matrix Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.186	0.0200	mg/Kg	1:1

Method Blank Report

Client ID Au Energy
Laboratory ID 111305
Sample ID MB for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	ND	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	ND	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	ND	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	ND	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	ND	1.5	mg/Kg	1:1

Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111306
Sample ID LCS for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	50	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	52	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.9	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	20	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	47	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	18	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	49	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	51	1.0	mg/Kg	1:1

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Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472878 [ICPV/7065]
Laboratory ID 111306 **Matrix** Soil

Parameter (continued)	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Molybdenum	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	95	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	53	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.8	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	47	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	19	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	49	1.5	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472878 [ICPV/7065
Laboratory ID 111307 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	50	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	53	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.8	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	20	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	47	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	18	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	49	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	52	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	96	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	53	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.8	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	48	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	19	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	49	1.5	mg/Kg	1:1

Duplicate Report

Client ID Au Energy **Sample ID** DUP for HBN 472878 [ICPV/7065]
Laboratory ID 111308 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1

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Duplicate Report

Client ID Au Energy
Laboratory ID 111308
Sample ID DUP for HBN 472878 [ICPV/7065]
Matrix Pea Gravel

Parameter (continued)	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Arsenic	6010B S	05/20/14	05/22/14	13	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	69	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	26	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	7.6	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	87	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	37	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	33	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	25	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	210	1.5	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy
Laboratory ID 111309
Sample ID MS for HBN 472878 [ICPV/7065]
Matrix Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	43	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	69	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	111	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.4	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	20	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	71	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	23	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	118	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	77	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	49	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	117	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	50	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.3	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	35	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	40	1.0	mg/Kg	1:1

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Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472878 [ICPV/7065]
Laboratory ID 111309 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Zinc	6010B S	05/20/14	05/22/14	189	1.5	mg/Kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472878 [ICPV/7065]
Laboratory ID 111310 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	45	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	71	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	88	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.4	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	19	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	72	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	23	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	91	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	63	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	48	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	116	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	50	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.3	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	35	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	38	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	125	1.5	mg/Kg	1:1

Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472880 [ICPV/7066]
Laboratory ID 111311 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472880 [ICPV/7066]
Laboratory ID 111311 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	ND	0.075	mg/L	1:1

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472880 [ICPV/7066]
Laboratory ID 111312 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.5	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.49	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	1.0	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.4	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.93	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.5	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.9	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.7	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.24	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	0.95	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	2.5	0.075	mg/L	1:1

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Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111313
Sample ID LCSD for HBN 472880 [ICPV/7066
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.5	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	2.7	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.49	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	1.0	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.4	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.93	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.4	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.9	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.24	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	0.95	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	2.5	0.075	mg/L	1:1

Duplicate Report

Client ID Au Energy
Laboratory ID 111314
Sample ID DUP for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	0.60	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	2.0	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	1.1	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	9.9	0.075	mg/L	1:1

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Matrix Spike Report

Client ID Au Energy
Laboratory ID 111315
Sample ID MS for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.2	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	3.1	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	4.1	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.42	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	0.89	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.0	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.84	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.2	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	3.2	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.3	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.2	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.5	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.20	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	1.8	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	1.1	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	12	0.075	mg/L	1:1

Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111316
Sample ID MSD for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.2	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	3.1	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	4.2	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.43	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	0.89	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.0	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.84	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.3	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	3.2	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.3	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.2	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.20	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	1.8	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	1.1	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	12	0.075	mg/L	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472882 [DIGV/2120]
Laboratory ID 111317 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	ND	0.0050	mg/Kg	1:1

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472882 [DIGV/2120]
Laboratory ID 111318 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.053	0.0050	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472882 [DIGV/2120
Laboratory ID 111319 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.052	0.0050	mg/Kg	1:1

Duplicate Report

Client ID Au Energy **Sample ID** DUP for HBN 472882 [DIGV/2120]
Laboratory ID 111320 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.017	0.0050	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472882 [DIGV/2120]
Laboratory ID 111321 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.049	0.0050	mg/Kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472882 [DIGV/2120]
Laboratory ID 111322 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.049	0.0050	mg/Kg	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472884 [DIGV/2121]
Laboratory ID 111323 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	ND	0.001	mg/L	1:1

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472884 [DIGV/2121]
Laboratory ID 111324 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.01	0.001	mg/L	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472884 [DIGV/2121
Laboratory ID 111325 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.009	0.001	mg/L	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472884 [DIGV/2121]
Laboratory ID 111327 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.009	0.001	mg/L	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472884 [DIGV/2121]
Laboratory ID 111328 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.009	0.001	mg/L	1:1

Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472886 [VMXV/3592]
Laboratory ID 111329 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472886 [VMXV/3592]
Laboratory ID 111329 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50.2 ug/kg	100 %	(65 - 135)

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472886 [VMXV/3592]
Laboratory ID 111330 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	271	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	54	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	52	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	56	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	57	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	169	1.0	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472886 [VMXV/3592
Laboratory ID 111331 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	258	10	ug/kg	1:1

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Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472886 [VMXV/3592
Laboratory ID 111331 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	52	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	50	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	51	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	51	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	52	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	55	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	56	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	165	1.0	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472886 [VMXV/3592]
Laboratory ID 111332 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	194	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	49	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	51	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	52	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	55	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	58	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	59	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	176	1.0	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472886 [VMXV/3592]
Laboratory ID 111333 **Matrix** Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	218	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	55	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	54	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	57	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	56	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	59	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	62	1.0	ug/kg	1:1

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Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472886 [VMXV/3592]
Laboratory ID	111333	**Matrix**	Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	63	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	186	1.0	ug/kg	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472900 [SGXV/2937]
Laboratory ID	111339	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	ND	1.0	mg/Kg	1:1
TPHmotor oil	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:1
TPHkerosene	8015B TEPH S	05/20/14	05/20/14	ND	1.0	mg/Kg	1:1

Lab Control Sample Report

Client ID	Au Energy	**Sample ID**	LCS for HBN 472900 [SGXV/2937]
Laboratory ID	111340	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	43	1.0	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID	Au Energy	**Sample ID**	LCSD for HBN 472900 [SGXV/2937
Laboratory ID	111341	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	46	1.0	mg/Kg	1:1

Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 472900 [SGXV/2937]
Laboratory ID	111342	**Matrix**	Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	132	1.0	mg/Kg	1:1

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Mobile Laboratory Division
Scientific Division

Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472900 [SGXV/2937]
Laboratory ID	111343	**Matrix**	Pea Gravel

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	142	1.0	mg/Kg	1:1

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	ICPP 7080	**Sample**	**Duplicate [111308]**
Matrix	Pea Gravel		

Parameter	RPD	RPD Limits
Antimony	17.6	(35)
Arsenic*	45.2*	(35)
Barium	25.0	(35)
Beryllium	0000	(35)
Cadmium	0000	(35)
Chromium	2.32	(35)
Cobalt	16.5	(35)
Copper	117	(35)
Lead	31.1	(35)
Molybdenum	0000	(35)
Nickel	18.6	(35)
Selenium	0000	(35)
Silver	0000	(35)
Thallium	0000	(35)
Vanadium	25.9	(35)
Zinc*	87.9*	(35)

Client ID	Au Energy	**Original**	20925001
QC Batch	ICPP 7081	**Sample**	**Duplicate [111314]**
Matrix	STLC		

Parameter	RPD	RPD Limits
Antimony	00	(35)
Arsenic	1.0	(35)
Barium	2.2	(35)
Beryllium	00	(35)
Cadmium	00	(35)
Chromium	00	(35)
Cobalt	00	(35)
Copper	00	(35)
Lead	1.3	(35)
Molybdenum	00	(35)
Nickel	00	(35)
Selenium	00	(35)
Silver	00	(35)
Thallium	00	(35)
Vanadium	00	(35)
Zinc	2.5	(35)

* High RPD due to sample matrix effect.

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	DIG 2131	**Sample**	**Duplicate [111320]**
Matrix	Pea Gravel		

Parameter	RPD	RPD Limits
Mercury	26.7	(35)

Client ID	Au Energy	**Original**	20925001
QC Batch	VMX 3629	**Samples**	Matrix Spike [111288]
Matrix	Pea Gravel		Matrix Spike Duplicate [111289]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
1,1-Dichloroethene	78	86	(60-135)	9.8	(20 MAX)
Benzene	90	96	(65-135)	6.5	(20 MAX)
Trichloroethene	92	96	(60-135)	4.3	(20 MAX)
Toluene	94	98	(60-135)	4.2	(20 MAX)
Chlorobenzene	86	92	(65-135)	6.7	(20 MAX)

Client ID	Au Energy	**Original**	20925001
QC Batch	VGX 3376	**Samples**	Matrix Spike [111293]
Matrix	Pea Gravel		Matrix Spike Duplicate [111294]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	95	96	(65-135)	1.0	(20 MAX)

Client ID	Au Energy	**Original**	20927001
QC Batch	SMX 1696	**Samples**	Matrix Spike [111298]
Matrix	Pea Gravel		Matrix Spike Duplicate [111299]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Phenol	74	74	(20-110)	00	(35 MAX)
2-Chlorophenol	85	78	(25-123)	8.6	(50 MAX)
1,4-Dichlorobenzene	73	70	(28-120)	4.2	(50 MAX)
N-Nitroso-di-propylamine	100	108	(41-135)	7.7	(45 MAX)
1,2,4-Trichlorobenzene	75	73	(38-135)	2.7	(40 MAX)
4-Chloro-3-methylphenol	77	72	(26-137)	6.7	(33 MAX)
Acenaphthene	129	87	(31-135)	39	(24 MAX)
4-Nitrophenol	55	74	(11-140)	29	(50 MAX)
2,4-Dinitrotoluene	73	61	(20-135)	18	(47 MAX)

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QC SUMMARY

Client ID Au Energy
QC Batch SMX 1696
Matrix Pea Gravel

Original Samples 20927001
Matrix Spike [111298]
Matrix Spike Duplicate [111299]
(continued)

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Pentachlorophenol	81	76	(17-180)	6.4	(47 MAX)
Pyrene	144	129	(35-135)	11	(36 MAX)

Client ID Au Energy
QC Batch PCBX 1419
Matrix Pea Gravel

Original Samples 20927001
Matrix Spike [111303]
Matrix Spike Duplicate [111304]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
PCB 1260	66	56	(35-135)	16	(20 MAX)

Client ID Au Energy
QC Batch ICPP 7080
Matrix Pea Gravel

Original Samples 20925001
Matrix Spike [111309]
Matrix Spike Duplicate [111310]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	82.3	86.7	(75-125)	5.21	(35 MAX)
Arsenic	96.8	100	(75-125)	3.25	(35 MAX)
Barium*	114	68.1*	(75-125)	50.4*	(35 MAX)
Beryllium	94.1	93.6	(75-125)	0.5330	(35 MAX)
Cadmium	97.6	96.4	(75-125)	1.24	(35 MAX)
Chromium	91.1	94.1	(75-125)	3.24	(35 MAX)
Cobalt	82.8	84.4	(75-125)	1.91	(35 MAX)
Copper*	191*	135*	(75-125)	34.4	(35 MAX)
Lead	98.5	70.8	(75-125)	32.7	(35 MAX)
Molybdenum	98.1	96.1	(75-125)	2.06	(35 MAX)
Nickel	89.7	88.6	(75-125)	1.23	(35 MAX)
Selenium	99.1	99.4	(75-125)	0.3020	(35 MAX)
Silver	86.7	85.0	(75-125)	1.98	(35 MAX)
Thallium*	69.5*	70.5*	(75-125)	1.43	(35 MAX)
Vanadium	103	94.3	(75-125)	8.82	(35 MAX)
Zinc*	214*	86.7	(75-125)	84.7*	(35 MAX)

* High/Low MS/MSD recoveries due to sample matrix effect.

* High RPD due to sample matrix effect.

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QC SUMMARY

Client ID Au Energy
QC Batch ICPP 7081
Matrix STLC
Original Samples 20925001
Matrix Spike [111315]
Matrix Spike Duplicate [111316]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	90	90	(60-125)	00	(35 MAX)
Arsenic	99	99	(60-125)	00	(35 MAX)
Barium	85	87	(60-125)	2.3	(35 MAX)
Beryllium	85	86	(60-125)	1.2	(35 MAX)
Cadmium	89	89	(60-125)	00	(35 MAX)
Chromium	81	81	(60-125)	00	(35 MAX)
Cobalt	84	84	(60-125)	00	(35 MAX)
Copper	90	90	(60-125)	00	(35 MAX)
Lead	83	84	(60-125)	1.2	(35 MAX)
Molybdenum	91	91	(60-125)	00	(35 MAX)
Nickel	84	84	(60-125)	00	(35 MAX)
Selenium	102	104	(60-125)	1.9	(35 MAX)
Silver	79	80	(60-125)	1.3	(35 MAX)
Thallium	70	70	(60-125)	00	(35 MAX)
Vanadium	109	111	(60-125)	1.8	(35 MAX)
Zinc	79	85	(60-125)	7.3	(35 MAX)

Client ID Au Energy
QC Batch DIG 2131
Matrix Pea Gravel
Original Samples 20925001
Matrix Spike [111321]
Matrix Spike Duplicate [111322]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury*	72.0*	72.0*	(75-125)	0000	(35 MAX)

Client ID Au Energy
QC Batch DIG 2132
Matrix STLC
Original Samples 20925001
Matrix Spike [111327]
Matrix Spike Duplicate [111328]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury*	68*	68*	(70-125)	00	(35 MAX)

* Low MS/MSD recoveries due to sample matrix effect.

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	VMX 3630	**Samples**	Matrix Spike [111332]
Matrix	Pea Gravel		Matrix Spike Duplicate [111333]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Tertiary butanol	78	87	(65-135)	11	(20 MAX)
Methyl-tert-butyl-ether	98	110	(65-135)	12	(20 MAX)
Di-isopropyl ether	102	108	(65-135)	5.7	(20 MAX)
Ethyl tert butyl ether	106	114	(65-135)	7.3	(20 MAX)
Tert amyl methyl ether	104	112	(65-135)	7.4	(20 MAX)
Benzene	110	118	(65-135)	7.0	(20 MAX)
Toluene	116	124	(65-135)	6.7	(20 MAX)
Ethylbenzene	118	126	(65-135)	6.6	(20 MAX)
Xylene,Total	117	124	(65-135)	5.8	(20 MAX)

Client ID	Au Energy	**Original**	20926001
QC Batch	SGX 2964	**Samples**	Matrix Spike [111342]
Matrix	Pea Gravel		Matrix Spike Duplicate [111343]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHdiesel*	-276*	-256*	(65-135)	-7.5*	(20 MAX)

Client ID	Au Energy	**Samples**	Lab Control Sample [111286]
QC Batch	VMX 3629		Lab Control Sample Duplicate [111287]
Matrix	Soil		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
1,1-Dichloroethene	82	78	(65-135)	5.0	(20 MAX)
Benzene	90	90	(65-135)	00	(20 MAX)
Trichloroethene	94	90	(65-135)	4.3	(20 MAX)
Toluene	94	92	(65-135)	2.2	(20 MAX)
Chlorobenzene	86	86	(65-135)	00	(20 MAX)

Client ID	Au Energy	**Samples**	Lab Control Sample [111291]
QC Batch	VGX 3376		Lab Control Sample Duplicate [111292]
Matrix	Soil		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	92	88	(65-135)	4.4	(20 MAX)

* Loss of MS/MSD recoveries due to sample matrix effect.

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QC SUMMARY

Client ID Au Energy
QC Batch SMX 1696
Matrix Soil
Samples Lab Control Sample [111296]
Lab Control Sample Duplicate [111297]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Phenol	50	51	(18-110)	2.0	(35 MAX)
2-Chlorophenol	56	58	(20-125)	3.5	(50 MAX)
1,4-Dichlorobenzene	57	58	(28-125)	1.7	(50 MAX)
N-Nitroso-di-propylamine	65	65	(35-150)	00	(45 MAX)
1,2,4-Trichlorobenzene	62	63	(38-120)	1.6	(40 MAX)
4-Chloro-3-methylphenol	57	59	(19-150)	3.4	(33 MAX)
Acenaphthene	83	87	(21-137)	4.7	(36 MAX)
4-Nitrophenol	80	81	(11-114)	1.2	(50 MAX)
2,4-Dinitrotoluene	81	79	(28-135)	2.5	(47 MAX)
Pentachlorophenol	101	102	(17-190)	1.0	(47 MAX)
Pyrene	105	97	(35-142)	7.9	(45 MAX)

Client ID Au Energy
QC Batch PCBX 1419
Matrix Soil
Samples Lab Control Sample [111301]
Lab Control Sample Duplicate [111302]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
PCB 1260	77	75	(35-135)	2.6	(20 MAX)

Client ID Au Energy
QC Batch ICPP 7080
Matrix Soil
Samples Lab Control Sample [111306]
Lab Control Sample Duplicate [111307]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	100	101	(80-120)	0.9950	(20 MAX)
Arsenic	103	106	(80-120)	2.87	(20 MAX)
Barium	104	102	(80-120)	1.94	(20 MAX)
Beryllium	98.7	98.0	(80-120)	0.7120	(20 MAX)
Cadmium	99.1	99.5	(80-120)	0.4030	(20 MAX)
Chromium	94.0	94.8	(80-120)	0.8470	(20 MAX)
Cobalt	91.6	91.8	(80-120)	0.2180	(20 MAX)
Copper	98.1	97.5	(80-120)	0.6130	(20 MAX)
Lead	102	104	(80-120)	1.94	(20 MAX)
Molybdenum	102	102	(80-120)	0000	(20 MAX)
Nickel	95.1	96.0	(80-120)	0.9420	(20 MAX)
Selenium	105	106	(80-120)	0.9480	(20 MAX)
Silver	96.5	96.4	(80-120)	0.1040	(20 MAX)
Thallium	93.8	95.1	(80-120)	1.38	(20 MAX)
Vanadium	92.7	93.7	(80-120)	1.07	(20 MAX)

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QC SUMMARY

Client ID	Au Energy	**Samples**	Lab Control Sample [111306]
QC Batch	ICPP 7080		Lab Control Sample Duplicate [111307]
Matrix	Soil		**(continued)**

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Zinc	97.1	97.7	(80-120)	0.6160	(20 MAX)

Client ID	Au Energy	**Samples**	Lab Control Sample [111312]
QC Batch	ICPP 7081		Lab Control Sample Duplicate [111313]
Matrix	STLC		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	100	99	(80-120)	1.0	(20 MAX)
Arsenic	105	107	(80-120)	1.9	(20 MAX)
Barium	106	105	(80-120)	0.90	(20 MAX)
Beryllium	99	99	(80-120)	00	(20 MAX)
Cadmium	101	101	(80-120)	00	(20 MAX)
Chromium	96	95	(80-120)	1.0	(20 MAX)
Cobalt	93	93	(80-120)	00	(20 MAX)
Copper	98	98	(80-120)	00	(20 MAX)
Lead	102	104	(80-120)	1.9	(20 MAX)
Molybdenum	103	103	(80-120)	00	(20 MAX)
Nickel	98	97	(80-120)	1.0	(20 MAX)
Selenium	106	105	(80-120)	0.90	(20 MAX)
Silver	96	97	(80-120)	1.0	(20 MAX)
Thallium	102	102	(80-120)	00	(20 MAX)
Vanadium	95	95	(80-120)	00	(20 MAX)
Zinc	100	99	(80-120)	1.0	(20 MAX)

Client ID	Au Energy	**Samples**	Lab Control Sample [111318]
QC Batch	DIG 2131		Lab Control Sample Duplicate [111319]
Matrix	Soil		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury	106	104	(80-120)	1.90	(20 MAX)

Client ID	Au Energy	**Samples**	Lab Control Sample [111324]
QC Batch	DIG 2132		Lab Control Sample Duplicate [111325]
Matrix	STLC		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury	96	93	(70-120)	3.2	(20 MAX)

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QC SUMMARY

Client ID Au Energy
QC Batch VMX 3630
Matrix Soil
Samples Lab Control Sample [111330]
Lab Control Sample Duplicate [111331]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Tertiary butanol	108	103	(65-135)	4.7	(20 MAX)
Methyl-tert-butyl-ether	108	104	(65-135)	3.8	(20 MAX)
Di-isopropyl ether	104	100	(65-135)	3.9	(20 MAX)
Ethyl tert butyl ether	106	102	(65-135)	3.8	(20 MAX)
Tert amyl methyl ether	106	102	(65-135)	3.8	(20 MAX)
Benzene	106	104	(65-135)	1.9	(20 MAX)
Toluene	112	110	(65-135)	1.8	(20 MAX)
Ethylbenzene	114	112	(65-135)	1.8	(20 MAX)
Xylene,Total	113	110	(65-135)	2.7	(20 MAX)

Client ID Au Energy
QC Batch SGX 2964
Matrix Soil
Samples Lab Control Sample [111340]
Lab Control Sample Duplicate [111341]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHdiesel	86	92	(65-135)	6.7	(20 MAX)

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Page 1 of 1

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California EDF Report? ☐ Yes ☑ No

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Project Name: 1800 Powell Street

Sampler Signature: | Sampler Name (PRINT): RAY JAMES

Project Address:

Chain-of-Custody Record and Analysis Request

	Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: 1-L amber	Container: Tedlar	Container: Other:	Preservative: HCl	Preservative: HNO_3	Preservative: NaOH	Preservative: H_2SO_4	Preservative: Other: 4°C / ICE	Matrix: Water	Matrix: Soil	Matrix: Air	Matrix: Other:
1	STKP-3A	5/19/14	11:05		X									X		X		
2	STKP-3B		11:10		X									X		X		
3	STKP-3C		11:15		X									X		X		
4	STKP-3D		11:20		X									X		X		
5	STKP-4A		11:25		X									X		X		
6	STKP-4B		11:30		X									X		X		
7	STKP-4C		11:35		X									X		X		
8	STKP-4D	5/19/14	11:40		X									X		X		
9																		
10																		

Analysis Request

TPH Gas (EPA 8015M)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	5 Oxygenates / BTEX / Naphthalene (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	7 Oxygenates / BTEX (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Cam 5 (EPA 6010B): Cd, Cr, Pb, Ni, Zn	Cam 17 (EPA 6010B)	Cam 17 WET / ~~TCLP~~ (EPA 6010B)	Organic Lead (LUFT)	8270C SVOCs	8082 PCB					
X	X	X	X			X		X	X		X	X					
X	X	X	X			X		X	X		X	X					
X	X	X	X			X		X	X		X	X					
X	X	X	X			X		X	X		X	X					
X	X	X	X			X		X	X		X	X					
X	X	X	X			X		X	X		X	X					
X	X	X	X			X		X	X		X	X					
X	X	X	X			X		X	X		X	X					

TAT: ☒ 24 hr ☐ 48 hr ☐ 5 DY ☐ 10 DY

For Lab Use Only

Relinquished by:	Date	Time	Received by:	Date	Time
RAY JAMES	5/19/14	15:00	[illegible]	5/19/14	15:00
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Laboratory:	Date	Time

Remarks: Reg Gravel - Comp 3 & Comp 4 TS

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Condition

Sparger Technology, Inc.
Environmental Laboratories

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Sunny Goyal
Au Energy
4185 Albrae Street
Fremont, CA 94538

Client	Au Energy
Workorder	20927 1800 Powel Street
Received	05/19/14

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

Sparger Technology, Inc. ID Suffix Keys - These descriptors will follow the Sparger Technology, Inc. ID numbers and help identify the specific sample and clarify the report.

DUP - Matrix Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
LCS - Lab Control Sample
LCSD - Lab Control Sample Duplicate
RPD - Relative Percent Difference
QC - Additional Quality Control
DIL - Results from a diluted sample
ND - None Detected
RL - Reporting Limit

Note: In an effort to conserve paper, the results are printed on both sides of the paper.

Ray James
Laboratory Director

3738 Bradview Drive • Sacramento, California 95827 • (916) 369-7688 • FAX (916) 369-7689

Sunny Goyal
Au Energy
4185 Albrae Street
Fremont, CA 94538

Workorder 20927

Enclosed are the results from samples received on May 19, 2014.

The requested analyses are listed below.

SAMPLE	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
20927001	Debris-Mix #1, Soil	05/19/14	8015B TEPH S 8015B TPHgas S 8260B BTEX/FOC S 8260B S 6010B STLC 6010B S 7470A STLC HG 7471A S HG 8082 S 8270C
20927002	Debris-Mix #2, Soil	05/19/14	8015B TEPH S 8015B TPHgas S 8260B BTEX/FOC S 8260B S 6010B STLC 6010B S 7470A STLC HG 7471A S HG 8082 S 8270C

Sparger Technology, Inc.
Environmental Laboratories

Analytical Laboratory Division
Mobile Laboratory Division
Scientific Division

Test Certificate of Analysis

Client ID Au Energy
Workorder # 20927 **Workorder ID** 1800 Powel Street

Laboratory ID 20927001 **Sampled** 05/19/14
Sample ID Debris-Mix #1 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8015B TEPH

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:10
TPHmotor oil	**8015B TEPH S**	**05/20/14**	**05/20/14**	**43000**	**100**	**mg/Kg**	**1:10**
TPHkerosene	**8015B TEPH S**	**05/20/14**	**05/20/14**	**5000**	**10**	**mg/Kg**	**1:10**

Laboratory ID 20927001 **Sampled** 05/19/14
Sample ID Debris-Mix #1 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas[1]	**8015B TPHgas S**	**05/21/14**	**05/21/14**	**1900**	**0.50**	**mg/Kg**	**1:1**

Surrogates	Result	Recovery	Limits
Trifluorotoluene	541 ug/kg	2700 %	(65 - 135)

1 - Non-typical TPH pattern present in gas range.

Laboratory ID 20927001 **Sampled** 05/19/14
Sample ID Debris-Mix #1 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	1000	ug/kg	1:100
Methyl-tert-butyl-ether	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**770**	**50**	**ug/kg**	**1:100**
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	100	ug/kg	1:100
Benzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**1500**	**100**	**ug/kg**	**1:100**
Toluene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**590**	**100**	**ug/kg**	**1:100**
Ethylbenzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**7600**	**100**	**ug/kg**	**1:100**
Xylene,Total	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**6300**	**100**	**ug/kg**	**1:100**
Naphthalene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**5600**	**200**	**ug/kg**	**1:100**

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50.2 ug/kg	100 %	(65 - 135)

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Test Certificate of Analysis

Client ID Au Energy
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Laboratory ID 20927001 **Sampled** 05/19/14
Sample ID Debris-Mix #1 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1,1,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,1,1-Trichloroethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,1,2,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,1,2-Trichloroethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,1-Dichloroethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,1-dichloropropane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,2,3-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,2,3-Trichloropropane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,2,4-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,2,4-Trimethylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**5700**	**200**	**ug/kg**	**1:100**
1,2-Dibromo-3-chloropropane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,2-Dibromoethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,2-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,2-Dichloroethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,2-Dichloropropane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,3,5-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,3-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,3-Dichloropropane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
1,4-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
2,2-dichloropropane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
2-Butanone	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
2-Chloroethylvinyl ether	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
2-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
2-Hexanone	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
4-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
4-Isopropyltoluene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
4-Methyl-2-pentanone	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Acetone	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Acrolein	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Acrylonitrile	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Benzene	**8260B S**	**05/21/14**	**05/21/14**	**1700**	**200**	**ug/kg**	**1:100**
Bromobenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Bromochloromethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Bromodichloromethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Bromoform	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20927 **Workorder ID** 1800 Powel Street

Laboratory ID 20927001 **Sampled** 05/19/14
Sample ID Debris-Mix #1 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Bromomethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Carbon disulfide	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Carbon tetrachloride	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Chlorobenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Chloroethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Chloroform	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Chloromethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Dibromochloromethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Dibromomethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Dichlorodifluoromethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Dichloromethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Ethylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**7600**	**200**	**ug/kg**	**1:100**
Hexachlorobutadiene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Iodomethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Isopropylbenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Naphthalene	**8260B S**	**05/21/14**	**05/21/14**	**8600**	**100**	**ug/kg**	**1:100**
Styrene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Tetrachloroethene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Toluene	**8260B S**	**05/21/14**	**05/21/14**	**540**	**200**	**ug/kg**	**1:100**
Trichloroethene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Trichlorofluoromethane	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Vinyl acetate	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
Vinyl chloride	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
cis-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
cis-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
m,p-Xylene	**8260B S**	**05/21/14**	**05/21/14**	**3700**	**200**	**ug/kg**	**1:100**
n-Butylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**16000**	**200**	**ug/kg**	**1:100**
n-Propylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**19000**	**200**	**ug/kg**	**1:100**
o-Xylene	**8260B S**	**05/21/14**	**05/21/14**	**1800**	**200**	**ug/kg**	**1:100**
sec-Butylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**10000**	**200**	**ug/kg**	**1:100**
tert-Butylbenzene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
trans-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100
trans-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	200	ug/kg	1:100

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	53 ug/kg	106 %	(65 - 135)

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Test Certificate of Analysis

Client ID	Au Energy	**Workorder ID**	1800 Powel Street
Workorder #	20927	**Sampled**	05/19/14
Laboratory ID	20927001	**Received**	05/19/14
Sample ID	Debris-Mix #1	**Reported**	05/22/14
Matrix	Soil		

8260B GC/MS Volatiles - 8260B S (continued)

Surrogates	Result	Recovery	Limits
Toluene d8	52 ug/kg	104 %	(65 - 135)
4-Bromofluorobenzene	57 ug/kg	114 %	(65 - 135)

Laboratory ID	20927001	**Sampled**	05/19/14
Sample ID	Debris-Mix #1	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

CAM17 STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	**6010B STLC**	**05/21/14**	**05/22/14**	**0.11**	**0.050**	**mg/L**	**1:1**
Barium	**6010B STLC**	**05/21/14**	**05/22/14**	**1.7**	**0.010**	**mg/L**	**1:1**
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	**6010B STLC**	**05/21/14**	**05/22/14**	**0.12**	**0.050**	**mg/L**	**1:1**
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	**6010B STLC**	**05/21/14**	**05/22/14**	**0.16**	**0.050**	**mg/L**	**1:1**
Mercury	**7470A STLC HG**	**05/21/14**	**05/21/14**	**0.002**	**0.001**	**mg/L**	**1:1**
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	**6010B STLC**	**05/21/14**	**05/22/14**	**0.35**	**0.075**	**mg/L**	**1:1**

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Test Certificate of Analysis

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Laboratory ID 20927001 **Sampled** 05/19/14
Sample ID Debris-Mix #1 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

CAM17 TTLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Arsenic	**6010B S**	**05/20/14**	**05/22/14**	**3.6**	**2.0**	**mg/Kg**	**1:1**
Barium	**6010B S**	**05/20/14**	**05/22/14**	**23**	**2.0**	**mg/Kg**	**1:1**
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	**6010B S**	**05/20/14**	**05/22/14**	**7.6**	**1.0**	**mg/Kg**	**1:1**
Cobalt	**6010B S**	**05/20/14**	**05/22/14**	**2.4**	**2.0**	**mg/Kg**	**1:1**
Copper	**6010B S**	**05/20/14**	**05/22/14**	**8.8**	**2.0**	**mg/Kg**	**1:1**
Lead	**6010B S**	**05/20/14**	**05/22/14**	**7.6**	**1.0**	**mg/Kg**	**1:1**
Mercury	**7471A S HG**	**05/20/14**	**05/21/14**	**0.038**	**0.0050**	**mg/Kg**	**1:1**
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	**6010B S**	**05/20/14**	**05/22/14**	**23**	**4.0**	**mg/Kg**	**1:1**
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	**6010B S**	**05/20/14**	**05/22/14**	**5.5**	**1.0**	**mg/Kg**	**1:1**
Zinc	**6010B S**	**05/20/14**	**05/22/14**	**17**	**1.5**	**mg/Kg**	**1:1**

Laboratory ID 20927001 **Sampled** 05/19/14
Sample ID Debris-Mix #1 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8082 GC PCBs

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1016	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1221	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1232	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1242	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1248	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1254	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1260	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Decachlorobiphenyl (DCB)	0.0050mg/Kg	30 %	(30 - 145)
Tetrachlorometaxylene (TCMX)	0.0094mg/Kg	56 %	(30 - 145)

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Sample ID Debris-Mix #1 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8270C GC/MS Semi-Vol.

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
1,2-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
1,3-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4,5-Trichlorophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
2,4,6-Trichlorophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4-Dichlorophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4-Dimethylphenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4-Dinitrophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,6-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Chloronaphthalene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Chlorophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Methylnaphthalene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Methylphenol(o-Cresol)	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Nitroaniline	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
2-Nitrophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
3,3'-Dichlorobenzidine	8270C	05/20/14	05/21/14	ND	6600	ug/kg	1:10
3-Nitroaniline	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
4,6-Dinitro-2-methylphenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
4-Bromophenylphenylether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Chloroaniline	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Chlorophenylphenylether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Methylphenol(p-Cresol)	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Nitroaniline	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
4-Nitrophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
Acenaphthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Acenaphthylene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Anthracene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(a)anthracene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(a)pyrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(b)fluoranthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(g,h,i)perylene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(k)fluoranthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzoic acid	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20927 **Workorder ID** 1800 Powel Street

Laboratory ID 20927001 **Sampled** 05/19/14
Sample ID Debris-Mix #1 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8270C GC/MS Semi-Vol. (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Benzyl alcohol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Bis(2-Chloroethoxy)methane	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Bis(2-Chloroethyl)ether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Butylbenzylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Chrysene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Di-n-butylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Di-n-octylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Dibenzo(a,h)anthracene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Dibenzofuran	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Diethylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Dimethylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Fluoranthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Fluorene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachlorobutadiene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachlorocyclopentadiene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachloroethane	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Indeno(1,2,3-cd)pyrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Isophorone	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
N-Nitrosodiphenylamine	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Naphthalene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Nitrobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Pentachlorophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
Phenanthrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Phenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Pyrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
bis(2-chloroisopropyl)ether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
bis(2-ethylhexyl)phthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10

Surrogates	Result	Recovery	Limits
2,4,6-Tribromophenol	4420 ug/kg	66 %	(10 - 135)
2-Fluorobiphenyl	1340 ug/kg	40 %	(30 - 135)
2-Fluorophenol	3910 ug/kg	59 %	(21 - 110)
p-Terphenyl-D14	2050 ug/kg	61 %	(33 - 145)
Nitrobenzene-D5	2090 ug/kg	63 %	(25 - 134)

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Client ID	Au Energy	**Workorder ID**	1800 Powel Street
Workorder #	20927	**Sampled**	05/19/14
Laboratory ID	20927001	**Received**	05/19/14
Sample ID	Debris-Mix #1	**Reported**	05/22/14
Matrix	Soil		

8270C GC/MS Semi-Vol. - 8270C (continued)

Surrogates	Result	Recovery	Limits
Phenol-D6	3440 ug/kg	52 %	(10 - 110)

Laboratory ID	20927002	**Sampled**	05/19/14
Sample ID	Debris-Mix #2	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

8015B TEPH

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:10
TPHmotor oil	**8015B TEPH S**	**05/20/14**	**05/20/14**	**68000**	**100**	**mg/Kg**	**1:10**
TPHkerosene	**8015B TEPH S**	**05/20/14**	**05/20/14**	**10000**	**10**	**mg/Kg**	**1:10**

Laboratory ID	20927002	**Sampled**	05/19/14
Sample ID	Debris-Mix #2	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

8015B TPH Gas

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas[1]	**8015B TPHgas S**	**05/21/14**	**05/21/14**	**200**	**0.50**	**mg/Kg**	**1:1**

Surrogates	Result	Recovery	Limits
Trifluorotoluene	358 ug/kg	1790 %	(65 - 135)

1 - Non-typical TPH pattern present in gas range.

Laboratory ID	20927002	**Sampled**	05/19/14
Sample ID	Debris-Mix #2	**Received**	05/19/14
Matrix	Soil	**Reported**	05/22/14

8260B BTEX/Oxygenates

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1
Methyl-tert-butyl-ether	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**820**	**0.50**	**ug/kg**	**1:1**
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1

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Client ID Au Energy
Workorder # 20927 **Workorder ID** 1800 Powel Street

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B BTEX/Oxygenates (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**1100**	**1.0**	**ug/kg**	**1:1**
Toluene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**590**	**1.0**	**ug/kg**	**1:1**
Ethylbenzene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**6800**	**1.0**	**ug/kg**	**1:1**
Xylene,Total	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**17000**	**1.0**	**ug/kg**	**1:1**
Naphthalene	**8260B BTEX/FOC**	**05/21/14**	**05/21/14**	**5900**	**2.0**	**ug/kg**	**1:1**

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50.2 ug/kg	100 %	(65 - 135)

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1,1,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,1-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trimethylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**29000**	**2.0**	**ug/kg**	**1:1**
1,2-Dibromo-3-chloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromoethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3,5-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,4-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2,2-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20927 **Workorder ID** 1800 Powel Street

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
2-Butanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chloroethylvinyl ether	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Hexanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Isopropyltoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Methyl-2-pentanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acetone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrolein	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrylonitrile	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Benzene	**8260B S**	**05/21/14**	**05/21/14**	**1200**	**2.0**	**ug/kg**	**1:1**
Bromobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromodichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromoform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon disulfide	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon tetrachloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichlorodifluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**7100**	**2.0**	**ug/kg**	**1:1**
Hexachlorobutadiene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Iodomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Isopropylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Naphthalene	**8260B S**	**05/21/14**	**05/21/14**	**8900**	**1.0**	**ug/kg**	**1:1**
Styrene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Tetrachloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Toluene	**8260B S**	**05/21/14**	**05/21/14**	**540**	**2.0**	**ug/kg**	**1:1**
Trichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichlorofluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20927 **Workorder ID** 1800 Powel Street

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8260B GC/MS Volatiles (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Vinyl acetate	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl chloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
m,p-Xylene	**8260B S**	**05/21/14**	**05/21/14**	**10000**	**2.0**	**ug/kg**	**1:1**
n-Butylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**18000**	**2.0**	**ug/kg**	**1:1**
n-Propylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**13000**	**2.0**	**ug/kg**	**1:1**
o-Xylene	**8260B S**	**05/21/14**	**05/21/14**	**6000**	**2.0**	**ug/kg**	**1:1**
sec-Butylbenzene	**8260B S**	**05/21/14**	**05/21/14**	**22000**	**2.0**	**ug/kg**	**1:1**
tert-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	53 ug/kg	106 %	(65 - 135)
Toluene d8	52 ug/kg	104 %	(65 - 135)
4-Bromofluorobenzene	54 ug/kg	108 %	(65 - 135)

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

CAM17 STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	**6010B STLC**	**05/21/14**	**05/22/14**	**0.11**	**0.050**	**mg/L**	**1:1**
Barium	**6010B STLC**	**05/21/14**	**05/22/14**	**1.5**	**0.010**	**mg/L**	**1:1**
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	**6010B STLC**	**05/21/14**	**05/22/14**	**0.12**	**0.050**	**mg/L**	**1:1**
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	**6010B STLC**	**05/21/14**	**05/22/14**	**0.18**	**0.050**	**mg/L**	**1:1**
Mercury	**7470A STLC HG**	**05/21/14**	**05/21/14**	**0.002**	**0.001**	**mg/L**	**1:1**
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1

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Workorder # 20927 **Workorder ID** 1800 Powel Street

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

CAM17 STLC (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	**6010B STLC**	**05/21/14**	**05/22/14**	**0.35**	**0.075**	**mg/L**	**1:1**

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

CAM17 TTLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Arsenic	**6010B S**	**05/20/14**	**05/22/14**	**7.9**	**2.0**	**mg/Kg**	**1:1**
Barium	**6010B S**	**05/20/14**	**05/22/14**	**337**	**2.0**	**mg/Kg**	**1:1**
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	**6010B S**	**05/20/14**	**05/22/14**	**20**	**1.0**	**mg/Kg**	**1:1**
Cobalt	**6010B S**	**05/20/14**	**05/22/14**	**4.5**	**2.0**	**mg/Kg**	**1:1**
Copper	**6010B S**	**05/20/14**	**05/22/14**	**15**	**2.0**	**mg/Kg**	**1:1**
Lead	**6010B S**	**05/20/14**	**05/22/14**	**36**	**1.0**	**mg/Kg**	**1:1**
Mercury	**7471A S HG**	**05/20/14**	**05/21/14**	**0.013**	**0.0050**	**mg/Kg**	**1:1**
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	**6010B S**	**05/20/14**	**05/22/14**	**38**	**4.0**	**mg/Kg**	**1:1**
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	**6010B S**	**05/20/14**	**05/22/14**	**16**	**1.0**	**mg/Kg**	**1:1**
Zinc	**6010B S**	**05/20/14**	**05/22/14**	**139**	**1.5**	**mg/Kg**	**1:1**

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20927 **Workorder ID** 1800 Powel Street

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8082 GC PCBs

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1016	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1221	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1232	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1242	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1248	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1254	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1260	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Decachlorobiphenyl (DCB)	0.0030mg/Kg	18 %	(30 - 145)
Tetrachlorometaxylene (TCMX)	0.0093mg/Kg	56 %	(30 - 145)

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8270C GC/MS Semi-Vol.

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
1,2-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
1,3-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4,5-Trichlorophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
2,4,6-Trichlorophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4-Dichlorophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4-Dimethylphenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,4-Dinitrophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2,6-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Chloronaphthalene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Chlorophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Methylnaphthalene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Methylphenol(o-Cresol)	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
2-Nitroaniline	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
2-Nitrophenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
3,3'-Dichlorobenzidine	8270C	05/20/14	05/21/14	ND	6600	ug/kg	1:10
3-Nitroaniline	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10

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Client ID Au Energy
Workorder # 20927 **Workorder ID** 1800 Powel Street

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8270C GC/MS Semi-Vol. (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
4,6-Dinitro-2-methylphenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
4-Bromophenylphenylether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Chloroaniline	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Chlorophenylphenylether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Methylphenol(p-Cresol)	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
4-Nitroaniline	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
4-Nitrophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
Acenaphthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Acenaphthylene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Anthracene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(a)anthracene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(a)pyrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(b)fluoranthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(g,h,i)perylene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzo(k)fluoranthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Benzoic acid	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
Benzyl alcohol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Bis(2-Chloroethoxy)methane	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Bis(2-Chloroethyl)ether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Butylbenzylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Chrysene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Di-n-butylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Di-n-octylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Dibenzo(a,h)anthracene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Dibenzofuran	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Diethylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Dimethylphthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Fluoranthene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Fluorene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachlorobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachlorobutadiene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachlorocyclopentadiene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Hexachloroethane	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Indeno(1,2,3-cd)pyrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Isophorone	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10

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Test Certificate of Analysis

Client ID Au Energy
Workorder # 20927 **Workorder ID** 1800 Powel Street

Laboratory ID 20927002 **Sampled** 05/19/14
Sample ID Debris-Mix #2 **Received** 05/19/14
Matrix Soil **Reported** 05/22/14

8270C GC/MS Semi-Vol. (continued)

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
N-Nitrosodiphenylamine	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Naphthalene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Nitrobenzene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Pentachlorophenol	8270C	05/20/14	05/21/14	ND	16000	ug/kg	1:10
Phenanthrene	**8270C**	**05/20/14**	**05/21/14**	**4400**	**3300**	**ug/kg**	**1:10**
Phenol	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
Pyrene	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
bis(2-chloroisopropyl)ether	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10
bis(2-ethylhexyl)phthalate	8270C	05/20/14	05/21/14	ND	3300	ug/kg	1:10

Surrogates	Result	Recovery	Limits
2,4,6-Tribromophenol	4380 ug/kg	66 %	(10 - 135)
2-Fluorobiphenyl	1480 ug/kg	44 %	(30 - 135)
2-Fluorophenol	4200 ug/kg	63 %	(21 - 110)
p-Terphenyl-D14	2380 ug/kg	72 %	(33 - 145)
Nitrobenzene-D5	2630 ug/kg	79 %	(25 - 134)
Phenol-D6	3710 ug/kg	56 %	(10 - 110)

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472870 [VMXV/3591]
Laboratory ID	111285	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1,1,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,1-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2,2-Tetrachloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1,2-Trichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,1-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,3-Trichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2,4-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromo-3-chloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dibromoethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,2-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3,5-Trimethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,3-Dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
1,4-Dichlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2,2-dichloropropane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Butanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chloroethylvinyl ether	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
2-Hexanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Chlorotoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Isopropyltoluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
4-Methyl-2-pentanone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acetone	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrolein	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Acrylonitrile	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromodichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromoform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Bromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon disulfide	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Carbon tetrachloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472870 [VMXV/3591]
Laboratory ID	111285	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Chlorobenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloroform	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Chloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromochloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dibromomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichlorodifluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Dichloromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Ethylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Hexachlorobutadiene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Iodomethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Isopropylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Naphthalene	8260B S	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Styrene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Tetrachloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Trichlorofluoromethane	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl acetate	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
Vinyl chloride	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
cis-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
m,p-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
n-Propylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
o-Xylene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
sec-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
tert-Butylbenzene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,2-Dichloroethene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1
trans-1,3-Dichloropropene	8260B S	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	52 ug/kg	104 %	(65 - 135)
Toluene d8	54 ug/kg	108 %	(65 - 135)
4-Bromofluorobenzene	51 ug/kg	102 %	(65 - 135)

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Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111286
Sample ID LCS for HBN 472870 [VMXV/3591]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	41	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	47	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	47	2.0	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111287
Sample ID LCSD for HBN 472870 [VMXV/3591
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	39	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	46	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy
Laboratory ID 111288
Sample ID MS for HBN 472870 [VMXV/3591]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	39	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	45	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	47	2.0	ug/kg	1:1
Trichloroethene	8260B S	05/21/14	05/21/14	46	2.0	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111289
Sample ID MSD for HBN 472870 [VMXV/3591]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,1-Dichloroethene	8260B S	05/21/14	05/21/14	43	2.0	ug/kg	1:1
Benzene	8260B S	05/21/14	05/21/14	48	2.0	ug/kg	1:1
Chlorobenzene	8260B S	05/21/14	05/21/14	46	2.0	ug/kg	1:1
Toluene	8260B S	05/21/14	05/21/14	49	2.0	ug/kg	1:1

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Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472870 [VMXV/3591]
Laboratory ID 111289 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Trichloroethene	8260B S	05/21/14	05/21/14	48	2.0	ug/kg	1:1

Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472872 [VGXV/3256]
Laboratory ID 111290 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	ND	0.50	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Trifluorotoluene	14.9 ug/kg	74 %	(65 - 135)

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472872 [VGXV/3256]
Laboratory ID 111291 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	0.92	0.50	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472872 [VGXV/3256
Laboratory ID 111292 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	0.88	0.50	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472872 [VGXV/3256]
Laboratory ID 111293 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	1.4	0.50	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472872 [VGXV/3256]
Laboratory ID	111294	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015B TPHgas S	05/21/14	05/21/14	1.4	0.50	mg/Kg	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472874 [SMXV/1683]
Laboratory ID	111295	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,2-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,3-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4,5-Trichlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4,6-Trichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dichlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dimethylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,4-Dinitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2,6-Dinitrotoluene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chloronaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylnaphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Methylphenol(o-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
2-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
2-Nitrophenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
3,3'-Dichlorobenzidine	8270C	05/20/14	05/21/14	ND	660	ug/kg	1:1
3-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4,6-Dinitro-2-methylphenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Bromophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chloroaniline	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Chlorophenylphenylether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Methylphenol(p-Cresol)	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
4-Nitroaniline	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Acenaphthylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(a)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472874 [SMXV/1683]
Laboratory ID	111295	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Benzo(a)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(b)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(g,h,i)perylene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzo(k)fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Benzoic acid	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Benzyl alcohol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethoxy)methane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Bis(2-Chloroethyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Butylbenzylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Chrysene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-butylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Di-n-octylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzo(a,h)anthracene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dibenzofuran	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Diethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Dimethylphthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluoranthene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Fluorene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorobutadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachlorocyclopentadiene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Hexachloroethane	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Indeno(1,2,3-cd)pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Isophorone	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
N-Nitrosodiphenylamine	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Naphthalene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Nitrobenzene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	ND	1600	ug/kg	1:1
Phenanthrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-chloroisopropyl)ether	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1
bis(2-ethylhexyl)phthalate	8270C	05/20/14	05/21/14	ND	330	ug/kg	1:1

Surrogates	Result	Recovery	Limits
2,4,6-Tribromophenol	4920 ug/kg	74 %	(10 - 135)

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Method Blank Report

Client ID Au Energy
Laboratory ID 111295
Sample ID MB for HBN 472874 [SMXV/1683]
Matrix Soil

Surrogates	Result	Recovery	Limits
2-Fluorobiphenyl	2070 ug/kg	62 %	(30 - 135)
2-Fluorophenol	4970 ug/kg	75 %	(21 - 110)
p-Terphenyl-D14	3430 ug/kg	103 %	(33 - 141)
Nitrobenzene-D5	2220 ug/kg	66 %	(25 - 134)
Phenol-D6	5000 ug/kg	75 %	(10 - 110)

Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111296
Sample ID LCS for HBN 472874 [SMXV/1683]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2080	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	1900	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2710	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	3730	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	3820	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	5300	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	2770	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	2160	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	6700	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	3340	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	3500	330	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111297
Sample ID LCSD for HBN 472874 [SMXV/1683
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2100	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	1930	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2640	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	3870	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	3940	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	5380	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	2890	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	2180	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	6830	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	3430	330	ug/kg	1:1

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Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472874 [SMXV/1683
Laboratory ID 111297 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Pyrene	8270C	05/20/14	05/21/14	3240	330	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472874 [SMXV/1683]
Laboratory ID 111298 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2490	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	2450	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2420	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	5660	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	5160	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	3640	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	4290	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	3340	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	5370	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	4950	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	5550	330	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472874 [SMXV/1683]
Laboratory ID 111299 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
1,2,4-Trichlorobenzene	8270C	05/20/14	05/21/14	2420	330	ug/kg	1:1
1,4-Dichlorobenzene	8270C	05/20/14	05/21/14	2340	330	ug/kg	1:1
2,4-Dinitrotoluene	8270C	05/20/14	05/21/14	2040	330	ug/kg	1:1
2-Chlorophenol	8270C	05/20/14	05/21/14	5220	330	ug/kg	1:1
4-Chloro-3-methylphenol	8270C	05/20/14	05/21/14	4830	330	ug/kg	1:1
4-Nitrophenol	8270C	05/20/14	05/21/14	4950	1600	ug/kg	1:1
Acenaphthene	8270C	05/20/14	05/21/14	2910	330	ug/kg	1:1
N-Nitroso-di-propylamine	8270C	05/20/14	05/21/14	3600	330	ug/kg	1:1
Pentachlorophenol	8270C	05/20/14	05/21/14	5090	1600	ug/kg	1:1
Phenol	8270C	05/20/14	05/21/14	4930	330	ug/kg	1:1
Pyrene	8270C	05/20/14	05/21/14	5050	330	ug/kg	1:1

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Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472876 [PCBV/1402]
Laboratory ID	111300	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1016	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1221	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1232	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1242	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1248	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1254	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1
PCB 1260	8082 S	05/20/14	05/21/14	ND	0.0200	mg/Kg	1:1

Surrogates	Result	Recovery	Limits
Decachlorobiphenyl (DCB)	0.0205mg/Kg	123 %	(35 - 145)
Tetrachlorometaxylene (TCMX)	0.0126mg/Kg	76 %	(35 - 145)

Lab Control Sample Report

Client ID	Au Energy	**Sample ID**	LCS for HBN 472876 [PCBV/1402]
Laboratory ID	111301	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.255	0.0200	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID	Au Energy	**Sample ID**	LCSD for HBN 472876 [PCBV/1402
Laboratory ID	111302	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.251	0.0200	mg/Kg	1:1

Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 472876 [PCBV/1402]
Laboratory ID	111303	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.219	0.0200	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111304
Sample ID MSD for HBN 472876 [PCBV/1402]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
PCB 1260	8082 S	05/20/14	05/21/14	0.186	0.0200	mg/Kg	1:1

Method Blank Report

Client ID Au Energy
Laboratory ID 111305
Sample ID MB for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	ND	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	ND	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	ND	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	ND	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	ND	1.5	mg/Kg	1:1

Lab Control Sample Report

Client ID Au Energy
Laboratory ID 111306
Sample ID LCS for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	50	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	52	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.9	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	20	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	47	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	18	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	49	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	51	1.0	mg/Kg	1:1

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Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472878 [ICPV/7065]
Laboratory ID 111306 **Matrix** Soil

Parameter (continued)	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Molybdenum	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	95	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	53	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.8	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	47	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	19	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	49	1.5	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472878 [ICPV/7065
Laboratory ID 111307 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	50	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	53	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.8	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	20	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	47	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	18	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	49	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	52	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	51	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	96	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	53	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.8	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	48	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	19	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	49	1.5	mg/Kg	1:1

Duplicate Report

Client ID Au Energy **Sample ID** DUP for HBN 472878 [ICPV/7065]
Laboratory ID 111308 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1

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Duplicate Report

Client ID Au Energy
Laboratory ID 111308
Sample ID DUP for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter (continued)	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Arsenic	6010B S	05/20/14	05/22/14	13	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	69	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	ND	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	26	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	7.6	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	87	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	37	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	ND	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	33	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	ND	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	ND	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	25	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	210	1.5	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy
Laboratory ID 111309
Sample ID MS for HBN 472878 [ICPV/7065]
Matrix Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	43	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	69	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	111	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.4	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	20	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	71	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	23	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	118	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	77	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	49	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	117	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	50	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.3	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	35	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	40	1.0	mg/Kg	1:1

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Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 472878 [ICPV/7065]
Laboratory ID	111309	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Zinc	6010B S	05/20/14	05/22/14	189	1.5	mg/Kg	1:1

Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472878 [ICPV/7065]
Laboratory ID	111310	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B S	05/20/14	05/22/14	45	2.0	mg/Kg	1:1
Arsenic	6010B S	05/20/14	05/22/14	71	2.0	mg/Kg	1:1
Barium	6010B S	05/20/14	05/22/14	88	2.0	mg/Kg	1:1
Beryllium	6010B S	05/20/14	05/22/14	9.4	0.30	mg/Kg	1:1
Cadmium	6010B S	05/20/14	05/22/14	19	0.50	mg/Kg	1:1
Chromium	6010B S	05/20/14	05/22/14	72	1.0	mg/Kg	1:1
Cobalt	6010B S	05/20/14	05/22/14	23	2.0	mg/Kg	1:1
Copper	6010B S	05/20/14	05/22/14	91	2.0	mg/Kg	1:1
Lead	6010B S	05/20/14	05/22/14	63	1.0	mg/Kg	1:1
Molybdenum	6010B S	05/20/14	05/22/14	48	2.0	mg/Kg	1:1
Nickel	6010B S	05/20/14	05/22/14	116	4.0	mg/Kg	1:1
Selenium	6010B S	05/20/14	05/22/14	50	5.0	mg/Kg	1:1
Silver	6010B S	05/20/14	05/22/14	4.3	0.50	mg/Kg	1:1
Thallium	6010B S	05/20/14	05/22/14	35	5.0	mg/Kg	1:1
Vanadium	6010B S	05/20/14	05/22/14	38	1.0	mg/Kg	1:1
Zinc	6010B S	05/20/14	05/22/14	125	1.5	mg/Kg	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472880 [ICPV/7066]
Laboratory ID	111311	**Matrix**	STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472880 [ICPV/7066]
Laboratory ID 111311 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	ND	0.075	mg/L	1:1

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472880 [ICPV/7066]
Laboratory ID 111312 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.5	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.49	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	1.0	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.4	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.93	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.5	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.9	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.7	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.24	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	0.95	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	2.5	0.075	mg/L	1:1

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Lab Control Sample Duplicate Report

Client ID Au Energy
Laboratory ID 111313
Sample ID LCSD for HBN 472880 [ICPV/7066
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.5	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	2.7	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.49	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	1.0	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.4	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.93	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.4	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.6	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.9	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.24	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	0.95	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	2.5	0.075	mg/L	1:1

Duplicate Report

Client ID Au Energy
Laboratory ID 111314
Sample ID DUP for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	ND	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	0.60	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	2.0	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	ND	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	1.1	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	ND	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	ND	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	ND	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	ND	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	9.9	0.075	mg/L	1:1

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Matrix Spike Report

Client ID Au Energy
Laboratory ID 111315
Sample ID MS for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.2	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	3.1	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	4.1	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.42	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	0.89	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.0	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.84	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.2	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	3.2	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.3	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.2	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.5	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.20	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	1.8	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	1.1	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	12	0.075	mg/L	1:1

Matrix Spike Duplicate Report

Client ID Au Energy
Laboratory ID 111316
Sample ID MSD for HBN 472880 [ICPV/7066]
Matrix STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Antimony	6010B STLC	05/21/14	05/22/14	2.2	0.030	mg/L	1:1
Arsenic	6010B STLC	05/21/14	05/22/14	3.1	0.050	mg/L	1:1
Barium	6010B STLC	05/21/14	05/22/14	4.2	0.010	mg/L	1:1
Beryllium	6010B STLC	05/21/14	05/22/14	0.43	0.015	mg/L	1:1
Cadmium	6010B STLC	05/21/14	05/22/14	0.89	0.025	mg/L	1:1
Chromium	6010B STLC	05/21/14	05/22/14	2.0	0.050	mg/L	1:1
Cobalt	6010B STLC	05/21/14	05/22/14	0.84	0.025	mg/L	1:1
Copper	6010B STLC	05/21/14	05/22/14	2.3	0.010	mg/L	1:1
Lead	6010B STLC	05/21/14	05/22/14	3.2	0.050	mg/L	1:1
Molybdenum	6010B STLC	05/21/14	05/22/14	2.3	0.010	mg/L	1:1
Nickel	6010B STLC	05/21/14	05/22/14	4.2	0.020	mg/L	1:1
Selenium	6010B STLC	05/21/14	05/22/14	2.6	0.050	mg/L	1:1
Silver	6010B STLC	05/21/14	05/22/14	0.20	0.050	mg/L	1:1
Thallium	6010B STLC	05/21/14	05/22/14	1.8	0.050	mg/L	1:1
Vanadium	6010B STLC	05/21/14	05/22/14	1.1	0.025	mg/L	1:1
Zinc	6010B STLC	05/21/14	05/22/14	12	0.075	mg/L	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472882 [DIGV/2120]
Laboratory ID 111317 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	ND	0.0050	mg/Kg	1:1

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472882 [DIGV/2120]
Laboratory ID 111318 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.053	0.0050	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472882 [DIGV/2120
Laboratory ID 111319 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.052	0.0050	mg/Kg	1:1

Duplicate Report

Client ID Au Energy **Sample ID** DUP for HBN 472882 [DIGV/2120]
Laboratory ID 111320 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.017	0.0050	mg/Kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472882 [DIGV/2120]
Laboratory ID 111321 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.049	0.0050	mg/Kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472882 [DIGV/2120]
Laboratory ID 111322 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7471A S HG	05/20/14	05/21/14	0.049	0.0050	mg/Kg	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472884 [DIGV/2121]
Laboratory ID 111323 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	ND	0.001	mg/L	1:1

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472884 [DIGV/2121]
Laboratory ID 111324 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.01	0.001	mg/L	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472884 [DIGV/2121
Laboratory ID 111325 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.009	0.001	mg/L	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472884 [DIGV/2121]
Laboratory ID 111327 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.009	0.001	mg/L	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472884 [DIGV/2121]
Laboratory ID 111328 **Matrix** STLC

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Mercury	7470A STLC HG	05/21/14	05/21/14	0.009	0.001	mg/L	1:1

Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472886 [VMXV/3592]
Laboratory ID 111329 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	ND	10	ug/kg	1:1

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Method Blank Report

Client ID Au Energy **Sample ID** MB for HBN 472886 [VMXV/3592]
Laboratory ID 111329 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dichloroethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
1,2-Dibromoethane	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	ND	1.0	ug/kg	1:1
Naphthalene	8260B BTEX/FOC	05/21/14	05/21/14	ND	2.0	ug/kg	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50.2 ug/kg	100 %	(65 - 135)

Lab Control Sample Report

Client ID Au Energy **Sample ID** LCS for HBN 472886 [VMXV/3592]
Laboratory ID 111330 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	271	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	54	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	52	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	56	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	57	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	169	1.0	ug/kg	1:1

Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472886 [VMXV/3592
Laboratory ID 111331 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	258	10	ug/kg	1:1

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Lab Control Sample Duplicate Report

Client ID Au Energy **Sample ID** LCSD for HBN 472886 [VMXV/3592
Laboratory ID 111331 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	52	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	50	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	51	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	51	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	52	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	55	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	56	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	165	1.0	ug/kg	1:1

Matrix Spike Report

Client ID Au Energy **Sample ID** MS for HBN 472886 [VMXV/3592]
Laboratory ID 111332 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	194	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	49	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	51	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	53	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	52	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	55	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	58	1.0	ug/kg	1:1
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	59	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	176	1.0	ug/kg	1:1

Matrix Spike Duplicate Report

Client ID Au Energy **Sample ID** MSD for HBN 472886 [VMXV/3592]
Laboratory ID 111333 **Matrix** Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Tertiary butanol	8260B BTEX/FOC	05/21/14	05/21/14	218	10	ug/kg	1:1
Methyl-tert-butyl-ether	8260B BTEX/FOC	05/21/14	05/21/14	55	0.50	ug/kg	1:1
Di-isopropyl ether	8260B BTEX/FOC	05/21/14	05/21/14	54	1.0	ug/kg	1:1
Ethyl tert butyl ether	8260B BTEX/FOC	05/21/14	05/21/14	57	1.0	ug/kg	1:1
Tert amyl methyl ether	8260B BTEX/FOC	05/21/14	05/21/14	56	1.0	ug/kg	1:1
Benzene	8260B BTEX/FOC	05/21/14	05/21/14	59	1.0	ug/kg	1:1
Toluene	8260B BTEX/FOC	05/21/14	05/21/14	62	1.0	ug/kg	1:1

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Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472886 [VMXV/3592]
Laboratory ID	111333	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
Ethylbenzene	8260B BTEX/FOC	05/21/14	05/21/14	63	1.0	ug/kg	1:1
Xylene,Total	8260B BTEX/FOC	05/21/14	05/21/14	186	1.0	ug/kg	1:1

Method Blank Report

Client ID	Au Energy	**Sample ID**	MB for HBN 472900 [SGXV/2937]
Laboratory ID	111339	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	ND	1.0	mg/Kg	1:1
TPHmotor oil	8015B TEPH S	05/20/14	05/20/14	ND	10	mg/Kg	1:1
TPHkerosene	8015B TEPH S	05/20/14	05/20/14	ND	1.0	mg/Kg	1:1

Lab Control Sample Report

Client ID	Au Energy	**Sample ID**	LCS for HBN 472900 [SGXV/2937]
Laboratory ID	111340	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	43	1.0	mg/Kg	1:1

Lab Control Sample Duplicate Report

Client ID	Au Energy	**Sample ID**	LCSD for HBN 472900 [SGXV/2937
Laboratory ID	111341	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	46	1.0	mg/Kg	1:1

Matrix Spike Report

Client ID	Au Energy	**Sample ID**	MS for HBN 472900 [SGXV/2937]
Laboratory ID	111342	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	132	1.0	mg/Kg	1:1

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Matrix Spike Duplicate Report

Client ID	Au Energy	**Sample ID**	MSD for HBN 472900 [SGXV/2937]
Laboratory ID	111343	**Matrix**	Soil

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHdiesel	8015B TEPH S	05/20/14	05/20/14	142	1.0	mg/Kg	1:1

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	ICPP 7080	**Sample**	**Duplicate [111308]**
Matrix	Soil		

Parameter	RPD	RPD Limits
Antimony	17.6	(35)
Arsenic*	45.2*	(35)
Barium	25.0	(35)
Beryllium	0000	(35)
Cadmium	0000	(35)
Chromium	2.32	(35)
Cobalt	16.5	(35)
Copper*	117*	(35)
Lead	31.1	(35)
Molybdenum	0000	(35)
Nickel	18.6	(35)
Selenium	0000	(35)
Silver	0000	(35)
Thallium	0000	(35)
Vanadium	25.9	(35)
Zinc*	87.9*	(35)

Client ID	Au Energy	**Original**	20925001
QC Batch	ICPP 7081	**Sample**	**Duplicate [111314]**
Matrix	STLC		

Parameter	RPD	RPD Limits
Antimony	00	(35)
Arsenic	1.0	(35)
Barium	2.2	(35)
Beryllium	00	(35)
Cadmium	00	(35)
Chromium	00	(35)
Cobalt	00	(35)
Copper	00	(35)
Lead	1.3	(35)
Molybdenum	00	(35)
Nickel	00	(35)
Selenium	00	(35)
Silver	00	(35)
Thallium	00	(35)
Vanadium	00	(35)
Zinc	2.5	(35)

* High RPD due to sample matrix effect.

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	DIG 2131	**Sample**	**Duplicate [111320]**
Matrix	Soil		

Parameter	RPD	RPD Limits
Mercury	26.7	(35)

Client ID	Au Energy	**Original**	20925001
QC Batch	VMX 3629	**Samples**	Matrix Spike [111288]
Matrix	Soil		Matrix Spike Duplicate [111289]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
1,1-Dichloroethene	78	86	(60-135)	9.8	(20 MAX)
Benzene	90	96	(65-135)	6.5	(20 MAX)
Trichloroethene	92	96	(60-135)	4.3	(20 MAX)
Toluene	94	98	(60-135)	4.2	(20 MAX)
Chlorobenzene	86	92	(65-135)	6.7	(20 MAX)

Client ID	Au Energy	**Original**	20925001
QC Batch	VGX 3376	**Samples**	Matrix Spike [111293]
Matrix	Soil		Matrix Spike Duplicate [111294]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	95	96	(65-135)	1.0	(20 MAX)

Client ID	Au Energy	**Original**	20927001
QC Batch	SMX 1696	**Samples**	Matrix Spike [111298]
Matrix	Soil		Matrix Spike Duplicate [111299]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Phenol	74	74	(20-110)	00	(35 MAX)
2-Chlorophenol	85	78	(25-123)	8.6	(50 MAX)
1,4-Dichlorobenzene	73	70	(28-120)	4.2	(50 MAX)
N-Nitroso-di-propylamine	100	108	(41-135)	7.7	(45 MAX)
1,2,4-Trichlorobenzene	75	73	(38-135)	2.7	(40 MAX)
4-Chloro-3-methylphenol	77	72	(26-137)	6.7	(33 MAX)
Acenaphthene	129	87	(31-135)	39	(24 MAX)
4-Nitrophenol	55	74	(11-140)	29	(50 MAX)
2,4-Dinitrotoluene	73	61	(20-135)	18	(47 MAX)

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QC SUMMARY

Client ID	Au Energy	**Original**	20927001
QC Batch	SMX 1696	**Samples**	Matrix Spike [111298]
Matrix	Soil		Matrix Spike Duplicate [111299]
			(continued)

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Pentachlorophenol	81	76	(17-180)	6.4	(47 MAX)
Pyrene*	144*	129	(35-135)	11	(36 MAX)

Client ID	Au Energy	**Original**	20927001
QC Batch	PCBX 1419	**Samples**	Matrix Spike [111303]
Matrix	Soil		Matrix Spike Duplicate [111304]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
PCB 1260	66	56	(35-135)	16	(20 MAX)

Client ID	Au Energy	**Original**	20925001
QC Batch	ICPP 7080	**Samples**	Matrix Spike [111309]
Matrix	Soil		Matrix Spike Duplicate [111310]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	82.3	86.7	(75-125)	5.21	(35 MAX)
Arsenic	96.8	100	(75-125)	3.25	(35 MAX)
Barium*	114	68.1*	(75-125)	50.4*	(35 MAX)
Beryllium	94.1	93.6	(75-125)	0.5330	(35 MAX)
Cadmium	97.6	96.4	(75-125)	1.24	(35 MAX)
Chromium	91.1	94.1	(75-125)	3.24	(35 MAX)
Cobalt	82.8	84.4	(75-125)	1.91	(35 MAX)
Copper*	191*	135*	(75-125)	34.4	(35 MAX)
Lead*	98.5	70.8*	(75-125)	32.7	(35 MAX)
Molybdenum	98.1	96.1	(75-125)	2.06	(35 MAX)
Nickel	89.7	88.6	(75-125)	1.23	(35 MAX)
Selenium	99.1	99.4	(75-125)	0.3020	(35 MAX)
Silver	86.7	85.0	(75-125)	1.98	(35 MAX)
Thallium*	69.5*	70.5*	(75-125)	1.43	(35 MAX)
Vanadium	103	94.3	(75-125)	8.82	(35 MAX)
Zinc*	214*	86.7	(75-125)	84.7*	(35 MAX)

* High/Low MS/MSD recoveries due to sample matrix effect.

* High RPD due to sample matrix effect.

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QC SUMMARY

Client ID	Au Energy	**Original**	20925001
QC Batch	ICPP 7081	**Samples**	Matrix Spike [111315]
Matrix	STLC		Matrix Spike Duplicate [111316]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	90	90	(60-125)	00	(35 MAX)
Arsenic	99	99	(60-125)	00	(35 MAX)
Barium	85	87	(60-125)	2.3	(35 MAX)
Beryllium	85	86	(60-125)	1.2	(35 MAX)
Cadmium	89	89	(60-125)	00	(35 MAX)
Chromium	81	81	(60-125)	00	(35 MAX)
Cobalt	84	84	(60-125)	00	(35 MAX)
Copper	90	90	(60-125)	00	(35 MAX)
Lead	83	84	(60-125)	1.2	(35 MAX)
Molybdenum	91	91	(60-125)	00	(35 MAX)
Nickel	84	84	(60-125)	00	(35 MAX)
Selenium	102	104	(60-125)	1.9	(35 MAX)
Silver	79	80	(60-125)	1.3	(35 MAX)
Thallium	70	70	(60-125)	00	(35 MAX)
Vanadium	109	111	(60-125)	1.8	(35 MAX)
Zinc	79	85	(60-125)	7.3	(35 MAX)

Client ID	Au Energy	**Original**	20925001
QC Batch	DIG 2131	**Samples**	Matrix Spike [111321]
Matrix	Soil		Matrix Spike Duplicate [111322]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury*	72.0*	72.0*	(75-125)	0000	(35 MAX)

Client ID	Au Energy	**Original**	20925001
QC Batch	DIG 2132	**Samples**	Matrix Spike [111327]
Matrix	STLC		Matrix Spike Duplicate [111328]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury*	68*	68*	(70-125)	00	(35 MAX)

* Low MS/MSD recoveries due to sample matrix effect.

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QC SUMMARY

Client ID Au Energy
QC Batch VMX 3630
Matrix Soil
Original Samples 20925001
Matrix Spike [111332]
Matrix Spike Duplicate [111333]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Tertiary butanol	78	87	(65-135)	11	(20 MAX)
Methyl-tert-butyl-ether	98	110	(65-135)	12	(20 MAX)
Di-isopropyl ether	102	108	(65-135)	5.7	(20 MAX)
Ethyl tert butyl ether	106	114	(65-135)	7.3	(20 MAX)
Tert amyl methyl ether	104	112	(65-135)	7.4	(20 MAX)
Benzene	110	118	(65-135)	7.0	(20 MAX)
Toluene	116	124	(65-135)	6.7	(20 MAX)
Ethylbenzene	118	126	(65-135)	6.6	(20 MAX)
Xylene,Total	117	124	(65-135)	5.8	(20 MAX)

Client ID Au Energy
QC Batch SGX 2964
Matrix Soil
Original Samples 20926001
Matrix Spike [111342]
Matrix Spike Duplicate [111343]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHdiesel*	-276*	-256*	(65-135)	-7.5*	(20 MAX)

Client ID Au Energy
QC Batch VMX 3629
Matrix Soil
Samples Lab Control Sample [111286]
Lab Control Sample Duplicate [111287]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
1,1-Dichloroethene	82	78	(65-135)	5.0	(20 MAX)
Benzene	90	90	(65-135)	00	(20 MAX)
Trichloroethene	94	90	(65-135)	4.3	(20 MAX)
Toluene	94	92	(65-135)	2.2	(20 MAX)
Chlorobenzene	86	86	(65-135)	00	(20 MAX)

Client ID Au Energy
QC Batch VGX 3376
Matrix Soil
Samples Lab Control Sample [111291]
Lab Control Sample Duplicate [111292]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	92	88	(65-135)	4.4	(20 MAX)

* Loss of MS/MSD recoveries due to sample matrix effect.

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QC SUMMARY

Client ID Au Energy
QC Batch SMX 1696
Matrix Soil
Samples Lab Control Sample [111296]
Lab Control Sample Duplicate [111297]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Phenol	50	51	(18-110)	2.0	(35 MAX)
2-Chlorophenol	56	58	(20-125)	3.5	(50 MAX)
1,4-Dichlorobenzene	57	58	(28-125)	1.7	(50 MAX)
N-Nitroso-di-propylamine	65	65	(35-150)	00	(45 MAX)
1,2,4-Trichlorobenzene	62	63	(38-120)	1.6	(40 MAX)
4-Chloro-3-methylphenol	57	59	(19-150)	3.4	(33 MAX)
Acenaphthene	83	87	(21-137)	4.7	(36 MAX)
4-Nitrophenol	80	81	(11-114)	1.2	(50 MAX)
2,4-Dinitrotoluene	81	79	(28-135)	2.5	(47 MAX)
Pentachlorophenol	101	102	(17-190)	1.0	(47 MAX)
Pyrene	105	97	(35-142)	7.9	(45 MAX)

Client ID Au Energy
QC Batch PCBX 1419
Matrix Soil
Samples Lab Control Sample [111301]
Lab Control Sample Duplicate [111302]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
PCB 1260	77	75	(35-135)	2.6	(20 MAX)

Client ID Au Energy
QC Batch ICPP 7080
Matrix Soil
Samples Lab Control Sample [111306]
Lab Control Sample Duplicate [111307]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	100	101	(80-120)	0.9950	(20 MAX)
Arsenic	103	106	(80-120)	2.87	(20 MAX)
Barium	104	102	(80-120)	1.94	(20 MAX)
Beryllium	98.7	98.0	(80-120)	0.7120	(20 MAX)
Cadmium	99.1	99.5	(80-120)	0.4030	(20 MAX)
Chromium	94.0	94.8	(80-120)	0.8470	(20 MAX)
Cobalt	91.6	91.8	(80-120)	0.2180	(20 MAX)
Copper	98.1	97.5	(80-120)	0.6130	(20 MAX)
Lead	102	104	(80-120)	1.94	(20 MAX)
Molybdenum	102	102	(80-120)	0000	(20 MAX)
Nickel	95.1	96.0	(80-120)	0.9420	(20 MAX)
Selenium	105	106	(80-120)	0.9480	(20 MAX)
Silver	96.5	96.4	(80-120)	0.1040	(20 MAX)
Thallium	93.8	95.1	(80-120)	1.38	(20 MAX)
Vanadium	92.7	93.7	(80-120)	1.07	(20 MAX)

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QC SUMMARY

Client ID	Au Energy	**Samples**	Lab Control Sample [111306]
QC Batch	ICPP 7080		Lab Control Sample Duplicate [111307]
Matrix	Soil		**(continued)**

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Zinc	97.1	97.7	(80-120)	0.6160	(20 MAX)

Client ID	Au Energy	**Samples**	Lab Control Sample [111312]
QC Batch	ICPP 7081		Lab Control Sample Duplicate [111313]
Matrix	STLC		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Antimony	100	99	(80-120)	1.0	(20 MAX)
Arsenic	105	107	(80-120)	1.9	(20 MAX)
Barium	106	105	(80-120)	0.90	(20 MAX)
Beryllium	99	99	(80-120)	00	(20 MAX)
Cadmium	101	101	(80-120)	00	(20 MAX)
Chromium	96	95	(80-120)	1.0	(20 MAX)
Cobalt	93	93	(80-120)	00	(20 MAX)
Copper	98	98	(80-120)	00	(20 MAX)
Lead	102	104	(80-120)	1.9	(20 MAX)
Molybdenum	103	103	(80-120)	00	(20 MAX)
Nickel	98	97	(80-120)	1.0	(20 MAX)
Selenium	106	105	(80-120)	0.90	(20 MAX)
Silver	96	97	(80-120)	1.0	(20 MAX)
Thallium	102	102	(80-120)	00	(20 MAX)
Vanadium	95	95	(80-120)	00	(20 MAX)
Zinc	100	99	(80-120)	1.0	(20 MAX)

Client ID	Au Energy	**Samples**	Lab Control Sample [111318]
QC Batch	DIG 2131		Lab Control Sample Duplicate [111319]
Matrix	Soil		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury	106	104	(80-120)	1.90	(20 MAX)

Client ID	Au Energy	**Samples**	Lab Control Sample [111324]
QC Batch	DIG 2132		Lab Control Sample Duplicate [111325]
Matrix	STLC		

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Mercury	96	93	(70-120)	3.2	(20 MAX)

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QC SUMMARY

Client ID Au Energy
QC Batch VMX 3630
Matrix Soil
Samples Lab Control Sample [111330]
Lab Control Sample Duplicate [111331]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Tertiary butanol	108	103	(65-135)	4.7	(20 MAX)
Methyl-tert-butyl-ether	108	104	(65-135)	3.8	(20 MAX)
Di-isopropyl ether	104	100	(65-135)	3.9	(20 MAX)
Ethyl tert butyl ether	106	102	(65-135)	3.8	(20 MAX)
Tert amyl methyl ether	106	102	(65-135)	3.8	(20 MAX)
Benzene	106	104	(65-135)	1.9	(20 MAX)
Toluene	112	110	(65-135)	1.8	(20 MAX)
Ethylbenzene	114	112	(65-135)	1.8	(20 MAX)
Xylene,Total	113	110	(65-135)	2.7	(20 MAX)

Client ID Au Energy
QC Batch SGX 2964
Matrix Soil
Samples Lab Control Sample [111340]
Lab Control Sample Duplicate [111341]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHdiesel	86	92	(65-135)	6.7	(20 MAX)

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Profile/COC No: **20927**

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): **Sunny Goyal**	California EDF Report? ☐ Yes ☑ No
Company / Address: **Au Energy** **4185 Albrae Street** **Fremont, CA 94538**	Sampling Company Log Code: NA
Phone #: 510-270-3411 / Fax #: 510-270-3411	Global ID: NA
Project #: / P.O. #: 091914C	PDF/EDF Deliverable To (Email Address): Sunny@vintnersdist.com; johne@vintnersdist.com
Project Name: 1800 Powell Street	Sampler Signature: / Sampler Name (PRINT): RAY JAMES
Project Address:	

	Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Sleeve	Poly	1-L amber	Tedlar	Other: Jar	Preservative: HCl	HNO_3	NaOH	H_2SO_4	Other: 4°C / ICE	Matrix: Water	Soil	Air	Other:	Analysis Request: TPH Gas (EPA 8015M)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	5 Oxygenates / BTEX / Naphthalene (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	7 Oxygenates / BTEX (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Cam 5 (EPA 6010B): Cd Cr, Pb, Ni, Zn	Cam 17 (EPA 6010B)	Cam 17 WET / ~~TCLP (EPA 6010B)~~	Organic Lead (LUFT)	8270C - SVOC + Volatiles	8082 - PCBs	TAT
1	Debri-Mix #1	5-19-14	11:45						X					X		X			X	X	X				X		X	X		X	X
2																															
3	Debri-Mix #2	5-19-14	11:50						X					X		X			X	X	X				X		X	X		X	X
4																															
5																															
6																															
7																															
8																															
9																															
10																															

TAT: ☐ 24 hr ☐ 48 hr ☐ 5 DY ☐ 10 DY

For Lab Use Only

Relinquished by:	Date	Time	Received by:	Date	Time
RAY JAMES	5/19/14	15:00	[illegible]	5/19/14	15:00
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Laboratory:	Date	Time

Remarks: Debri-Mix #1 and Mix #2

Bill to:

For Lab Use Only Sample Receipt

Temp °C	Initials	Date	Time	Condition