ConocoPhillips
76 Broadway
Sacramento, California 95818

February 16, 2010

Mr. Paresh C. Khatri
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

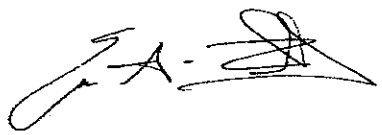
Re: **Site Assessment Report**
76 Service Station Facility No. 2611270
3255 Mecartney Road
Alameda, California

Dear Mr. Khatri:

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

If you have any questions or need additional information, please call me at (916) 558-7604.

Sincerely,



Eric G. Hetrick
Site Manager
Risk Management & Remediation

February 22, 2010

Mr. Paresh C. Khatri
Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

RE: Site Assessment Report
76 Service Station No. 11270
3255 Mecartney Road
Alameda, California
Fuel Leak Case No. RO0000511

DELTA

Dear Mr. Khatri:

Delta Consultants (Delta) has prepared this report presenting the results of the advancement of five borings and the installation of five soil vapor wells (SV-1 through SV-5) at the above-referenced site (**Figure 1**). The work was performed as proposed in Delta's *Soil Vapor Survey - Work Plan Addendum* dated September 8, 2009 and *Work Plan – Soil Vapor Survey* dated June 8, 2009.

The additional work performed was directed by the Alameda County Health Care Services Agency (ACHCSA) in a letter dated October 22, 2009. The ACHCSA letter is presented as **Attachment A**.

The purpose of this assessment was to collect soil and soil vapor samples to assess the overall site conditions. The location of soil vapor points (SV-1 through SV-5) is shown on **Figure 2**.

- SV-1 and SV-2 was installed to assess the extent of the potential for vapor intrusion into the station building.
- SV-3 was installed to assess the extent of the potential for vapor migration off-site. Groundwater previously collected in the vicinity of (SV-3) was observed at 1,500 parts per billion (ppb).
- (SV-4) was installed to assess the potential for vapor intrusion in the vicinity of the fuel underground storage tanks (USTs). Liquid phase hydrocarbons were previously observed in the groundwater, in August 1992, at wells MW-1 and MW-2.
- SV-5 was installed to assess the potential for vapor intrusion in the vicinity of the fuel dispenser islands.

a member of: Inogen Environmental Alliance

11050 White Rock Road Suite 110 Rancho Cordova, California 95670 USA
Phone +1 916.638.2085 / USA Toll Free 800.477.7411
Fax +1 916.638.8385 www.deltaenv.com

SITE DESCRIPTION

The site is an operational 76 service station located within a developed shopping center located on the northwest corner of the intersection of Mecartney Road and Island Drive in Alameda, California. The site is located in a mixed commercial and residential neighborhood.

Site features include three (3) gasoline underground storage tanks (USTs), two fuel dispenser islands, and a station building with a service bay containing two hoists. The on-site USTs include one 12,000-gallon, one 10,000-gallon, and one 6,000-gallon fiberglass USTs installed in 1981. Site features are shown on **Figure 2**.

PREVIOUS SITE ACTIVITY

May 1990 - Two soil samples (P1 and P2) were collected from beneath the product dispensers at a depth of approximately 4.5 feet below ground surface (bgs). After additional excavation in the vicinity of sample location P1, one additional soil sample P1(8) was collected at a depth of approximately 8 feet bgs. Two sidewall samples (SW1 and SW2) were collected from the sidewalls of the product line trench in the vicinity of sample point P1 at a depth of approximately 4.5 feet bgs. Based on the petroleum hydrocarbon concentrations reported in sample SW1, an additional soil sample was collected a depth of 8 feet bgs in the vicinity of sample location SW1. Historical soil analytical results are summarized in **Table 1**. Soil sample locations are shown on **Figure 2A**.

During over-excavation, water was encountered at approximately 8 feet bgs. Three soil samples (SW3, SW4, and SW5) were subsequently collected at depths of 8 feet bgs, 4.5 feet bgs, and 4.5 feet bgs, respectively. Four soil samples (SW6 through SW9) were collected at a depth of approximately 4.5 feet bgs. A total of approximately 195 cubic yards of soil was excavated, aerated on-site and appropriately disposed of off-site. Soil sample locations are shown on **Figure 2A**.

August 1992 - A preliminary site assessment was conducted at the site including the sampling of two pre-existing Mobil groundwater monitoring wells MW-2 and MW-4. Samples could not be collected from monitoring wells MW-1 and MW-3 due to insufficient recharge. Product sheen was observed in the purge water in all of the monitoring wells. The monitoring well locations are shown on **Figure 2**.

October 1994 - Two exploratory borings (TB-1 and TB-2) were advanced to a depth of 11.5 feet bgs. Analytical results from the borings indicated that petroleum hydrocarbons were not present above the laboratory's indicated reporting limits. Groundwater samples collected from borings, TB-1 and TB-2, contained 1,500 parts per billion (ppb) and 310 ppb total petroleum hydrocarbons as gasoline (TPH-G), respectively. Historical groundwater analytical results are summarized in **Table 2**. Soil sample locations are shown on **Figure 2A**.

June 1993 - A 4-inch diameter groundwater monitoring well, MW-5, was installed off-site, near the western corner of the site to a depth of 15 feet bgs. The monitoring well location is shown on **Figure 2**.

January 1995 - One 4-inch diameter monitoring well, MW-6, was installed on-site and one 2-inch diameter monitoring well, MW-7, was installed off-site. Monitoring well MW-6 was constructed to a depth of 15 feet bgs and MW-7 was constructed to a depth of 16.5 feet bgs. The monitoring well locations are shown on **Figure 2.**

Groundwater was encountered in the monitoring wells at depths ranging from 5 to 7.5 feet bgs. Monitoring wells, MW-1 through MW-4, were subsequently destroyed in January 1995.

November 1996 - A Tier 2 risk-based corrective action (RBCA) evaluation was conducted to assess the potential exposure risk of residual benzene concentrations in on-site soils. The results of the evaluation indicated that the levels of benzene in soil 8 feet bgs should not pose a risk to on-site workers. Risks to potential hypothetical future residents reportedly exceeded the lower, more protective end of the Environmental Protection Agency (EPA) acceptable risk range. The evaluation also concluded that ongoing natural attenuation was likely to reduce residual benzene concentrations to below the acceptable risk range prior to the unlikely scenario of the site being converted to residential use.

December 1996 - The oil/water separator located on the floor of the vehicle service bay at the west side of the service station building was cleaned and removed. Two soil samples (OWS-1, 0.5' and OWS-1, 2') were subsequently collected from beneath the former oil/water separator location. Analytical results indicated that total recoverable petroleum hydrocarbons (TRPH) were present in the soil with a maximum concentration of 49 parts per million (ppm). All other constituents tested were below the laboratory's indicated reporting limits.

August 1997 - Samples of pea gravel base material (S-1, through S-4) were collected from below each fuel dispenser. Historical soil analytical results are summarized in **Table 1.**

July 1998 - One 1,000-gallon single-walled fiberglass used-oil UST was removed from the site. The removed UST was noted to be intact with no visible holes or cracks. One native soil sample (S-6-T1E) was collected from the eastern sidewall of the UST cavity at a depth of approximately 7 feet bgs. Historical soil analytical results are summarized in **Table 1.** Soil sample locations are shown on **Figure 2A.**

August 2000 - Site fuel dispensers and product lines were removed and replaced. A total of four pea gravel samples (PD-1-2', PD-2-1.5', PD-3-1.5', and PD-4-1.5') were collected from beneath each of the four fuel dispensers, and four pea gravel samples (PL-3-1.5', PL-4-1.5', PL-6-1.5', and PL-7-1.5') were collected from beneath the product lines. Three pea gravel samples were also collected at each of the ends of the fuel USTs (F-1-4', F-2-4', and F-5-3'). Historical soil analytical results are summarized in **Table 1.** Soil sample locations are shown on **Figure 2A**.

In February 2009, Stratus attempted to advance soil boring B-4, but they stopped field activities after encountering pea gravel. According to the manager who has operated the facility for 24 years, during original construction, a large area of the subsurface soil was excavated from the site and backfilled with pea gravel. The approximate extent of the pea gravel is shown on **Figure 2**.

SENSITIVE RECEPTORS

November 1992 - A sensitive receptor survey and existing well search were conducted. No public water supply wells were identified within approximately 2,500 feet of the site. No private water supply wells were identified within 1,000 feet of the site. Additionally, no subways, basements, and schools were identified within 1,000 feet of the site.

The survey identified a surface water body located approximately 500 feet from the site, but did not name it. As observed during a site visit by URS, this surface water body is a channel excavated as part of a residential development. The channel appears to connect to the San Francisco Bay which is located, at its closest, approximately 3,500 feet southwest of the site.

SITE GEOLOGY AND HYDROGEOLOGY

The site is situated approximately 4,500 feet south of San Leandro Bay, and approximately 3,500 feet northeast of the present shoreline of San Francisco Bay. Sediments encountered at the site generally consisted of silty to gravelly sand and sandy gravel to the maximum explored depth of 16.5 feet bgs. Lean clay was encountered in boring MW-5 from 13 to 15 feet bgs, and gravelly clay (possibly fill) from 3.5 to 5 feet bgs in boring MW-7. Groundwater was encountered during drilling at a depths ranging from 5 to 7.5 feet bgs.

Groundwater Monitoring

October 1992 - Groundwater monitoring was initiated using monitoring wells MW-1 through MW-4 and was continued until September 2001, incorporating wells MW-5 through MW-7, and off-site wells XW-I through XW-3 that are not associated with the site. The monitoring program was discontinued in September 2001, while awaiting ACHCSA assessment if the site was qualified for case closure.

Groundwater monitoring and sampling was re-initiated on an annual basis at the site following a directive letter from Mr. Paresh Khatri of ACHCSA, dated 21 August 2008. Well development activities took place on September 5, 2008, two weeks prior to re-starting the sampling program. Analytical results from the groundwater samples collected in September 2008 indicated the following:

- TPH-G was above the laboratory's indicated reporting limit in one of the six wells sampled at a concentration of 83 micrograms per liter (µg/L) in monitoring well MW-6.
- Toluene, ethylbenzene, and total xylenes were above the laboratory's indicated reporting limits in the groundwater sample collected from monitoring well MW-6 at concentrations of 4.1 µg/L, 2.0 µg/L, and 17 µg/L, respectively
- Methyl tertiary-butyl ether (MTBE) was above the laboratory's indicated reporting limit in the groundwater samples collected from three of the six wells. MTBE was reported at concentrations of 3.4 µg/L in monitoring in monitoring well MW-6, 1.6 µg/L in monitoring well MW-7, and 1.3 µg/L in well XW-3.

The remaining fuel oxygenates were below the laboratory's indicated reporting limits in each of the six wells sampled.

SOIL INVESTIGATION

Pre-field Activities

Delta prepared a site-specific Health and Safety Plan (HASP) in accordance with Title 8, Section 5192 of the California Code of Regulations. The HASP contained a list of emergency contacts, as well as a hospital route map to the nearest emergency facility.

A drilling permit was obtained from the Alameda County Public Works Agency for the six exploratory borings. Copies of the drilling permits are presented as **Attachment B**.

A utility survey was conducted prior to the field investigation. The proposed boring locations were marked prior to drilling and Delta contacted Underground Service Alert (USA ticket number 201-806) to locate and mark all underground utilities in the vicinity of the proposed boring locations. Delta also employed a private utility locator to investigate possible private underground utilities in the vicinity of the proposed boring locations.

Borings and Vapor Well Installation

On December 10, 2009, Gregg Drilling and Testing (Gregg), under supervision of a Delta field geologist, advanced five borings for soil characterization and for the installation of soil vapor wells SV-1 through SV-5.

The borings were advanced to a depth of approximately 5 feet bgs using a hand auger. The soils encountered in the boring were logged using the Unified Soil Classification System (USCS) for lithologic interpretation and field screened using a pre-calibrated (PID).

Soil samples were collected for lithologic interpretation, field screening, and analytical testing, at a depth of approximately 5 feet bgs in each boring location. Groundwater was not observed in each of the borings. Boring logs are included as **Attachment C.**

The soil samples were collected in clean brass liners, capped with Teflon® sheets and tight-fitting plastic end caps, labeled, and placed in an ice-chilled cooler pending transportation to the laboratory. A chain-of-custody accompanied the soil samples to Pace Analytical Services, Inc. (PACE) in Seattle, Washington, a California-certified laboratory.

The soil samples were analyzed for TPH as diesel (TPH-D) [silica gel treated] and TPH-G by EPA Method 8015B, benzene, toluene, ethyl-benzene, and total xylenes (BTEX), MTBE, di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), tertiary-amyl methyl ether (TAME), tertiary-butyl alcohol (TBA), 1,2-dichloroethane (1,2-DCA), ethylene di-bromide (EDB), and ethanol by EPA Method 8260.

A copy of the laboratory report and chain-of-custody documentation is presented as **Attachment D.**

The following constituents were reported in the soil samples:

- All TPH-G, TPH-D, BTEX, and fuel oxygenate constituents were below the laboratory's indicated reporting limits in the soil samples collected from soil vapor wells SV-1 through SV-4.
- In boring SV-5, TPH-D was reported at a concentration of 50.9 milligrams per kilogram (mg/kg), MTBE was reported at a concentration of 0.022 mg/kg, and TBA was reported at a concentration of 0.032 mg/kg.

The soil analytical results are shown in **Table 3** and **Table 4.**

Soil Vapor Well Details

The soil vapor wells were completed to 5 feet bgs. A ¼-inch Nylaflow tubing was connected to a vapor tip (which was 6 inches in length and 1-inch in diameter) at a depth of 4 feet bgs and run to ground surface. A Swagelok connector was attached to the ¼ inch tubing at the ground surface.

A sand pack consisting of RMC Lonestar #2/12 sand was placed in the annular space from 3.5 feet bgs to 5 feet bgs to allow vapor extraction in this interval. A 1-foot thick bentonite seal was placed on top of the sand pack. The remainder of the annular space was filled with neat cement and the wells encased in a traffic-rated protective 7-inch diameter vault placed at existing ground level. Well construction details are shown on the boring logs presented as **Attachment C**.

COLLECTION OF SOIL VAPOR SAMPLES

On January 8, 2010 soil vapor wells SV-1 through SV-5 were sampled by Blaine Tech, under the supervision of Delta. The soil vapor wells were allowed to stabilize a minimum of two weeks in the absence of significant measurable precipitation at the site. The soil vapor wells were sampled in accordance with the Department of Toxic Substance Control (DTSC) *Advisory-Active Soil Gas Investigations* guidelines, dated January 28, 2003.

A new and clean soil vapor sampling apparatus was constructed for each well by Blaine Tech using brass Swagelok union crosses and ¼-inch outside diameter (OD) Teflon tubing. This sampling apparatus was then connected to the previously installed brass Swagelok valves at each soil vapor well. The other end of the sampling apparatus was connected to one 6-liter summa canister with an in-line 100 milliliter per minute (ml/min) flow regulator. Additionally, a Lantec Gem 2000 multimeter was connected in-line on the sampling train in order to provide real-time measurements of oxygen (O_2), nitrogen (N_2), methane (CH_4), and carbon dioxide (CO_2) during the purge cycles. Blaine Tech field logs are included as **Attachment E.**

Following sampling apparatus construction and summa canister connection, a three to five minute vacuum test was performed at each soil gas well using one 6-liter summa canister. Following a successful vacuum test, each soil vapor well was then purged a total of 126 ml (3 line volumes) using a 60ml syringe while recording fixed gases with a multimeter. A sampling shroud constructed of plastic was wrapped with a liquid leak check tracer compound (isopropanol) and placed over the sampling train.

Subsequent to construction of the sampling train, vacuum test, purging, and placing to the shroud, a soil vapor sample was collected into a 6-liter summa canister at approximately 100 ml/min. Field notes from the purge activities and sample collection are included in **Attachment E.**

The soil gas samples were submitted to Pace Laboratories with chain-of-custody documentation. Soil vapor samples were analyzed for TPH-G, BTEX, MTBE, 1,2-DCA, EDB, ethanol, isopropanol, TBA, isopropyl ether, tertiary-butyl ethyl ether, and TAME by EPA Method TO-15. Fixed gases O_2/AR, N_2, CH_4, CO_2, and CO were analyzed by EPA Method 3C. The analytical results for the soil vapor samples are presented in **Table 5 and Table 5A.** A copy of the soil gas laboratory analytical report and chain-of-custody documentation is presented as **Attachment D.**

SOIL VAPOR LABORATORY ANALYTICAL RESULTS

The following concentrations were reported for the soil vapor analyses by EPA Method TO-15:

- TPH-G was reported at concentrations of 1,400 µg/m^3 (micrograms per cubic meter) (SV-2), 35,000 µg/m^3 (SV-4), and 16,000 µg/m^3 (SV-5). TPH-G was below the laboratory reporting limit (LRL) in wells SV-1 and SV-3.
- MTBE was reported at concentrations of 60 µg/m^3 (SV-2), 92 µg/m^3 (SV-4), and 4,700 µg/m^3 (SV-5). MTBE was below the LRL in wells SV-1 and SV-3.
- Benzene was reported at concentrations of 9.9 µg/m^3 (SV-1), 33 µg/m^3 (SV-2), 12 µg/m^3 (SV-3), 13 µg/m^3 (SV-4), and 14 µg/m^3 (SV-5).
- Toluene was reported at concentrations of 40 µg/m^3 (SV-1), 60 µg/m^3 (SV-2), 49 µg/m^3 (SV-3), 54 µg/m^3 (SV-4), and 45 µg/m^3 (SV-5).
- P,m-xylenes were reported at a concentration of 8.2 µg/m^3 in well SV-4. P,m-xylenes were below the LRL in wells SV-1, SV-3, SV-3, SV-5.
- O-xylenes were reported at concentrations of 10 µg/m^3 (SV-2), 11 µg/m^3 (SV-3), 12 µg/m^3 (SV-4), and 13 µg/m^3 (SV-5). O-xylenes were below the LRL in well SV-1.
- Ethylbenzene, 1,2-DCA, EDB, ethanol, TBA, isopropyl ether, tertiary-butyl ethyl ether, and TAME were below the laboratory's indicated reporting limits in each of the soil vapor samples submitted for analysis.
- Isopropanol (tracer compound) was reported at concentrations of 1,200 µg/m^3 (SV-1), 60 µg/m^3 (SV-2), 6,200 µg/m^3 (SV-4), and 3,800 µg/m^3 (SV-5). Isopropanol was not reported in well SV-3.

The following concentrations were reported for the soil vapor analyses by EPA Method C3:

- Fixed gases oxygen/argon were reported at concentrations ranging from 1.6% volume of gas per volume of air (% v/v) (SV-2) and 16% v/v (SV-1).
- Fixed gas nitrogen was reported at concentrations ranging from 35% v/v (SV-2) and 87% v/v (SV-4).
- Fixed gas methane was reported at concentrations ranging from 0.89% v/v (SV-4) and 55% v/v (SV-2).
- Fixed gas CO_2 was reported at concentrations ranging from 4% v/v (SV-1) and 10% v/v (SV-2).

- Fixed gas CO was below the laboratory's indicated reporting limit in each of the soil vapor samples submitted for analysis.

Disposal of Drill Cuttings

Two 55-gallon Department of Transportation (DOT)-approved steel drums were generated and stored on-site during this site investigation. One drum was used for soil cuttings and the additional drum contained construction debris. The soil cutting drum was profiled for proper waste disposal.

Samples of the drill cuttings were collected, labeled, placed on ice, and transported to PACE with chain-of-custody documentation. The samples were analyzed for TPH-G, BTEX, and MTBE by EPA Method 8260, total lead by EPA Method 6010, and total petroleum hydrocarbons as diesel range organics (TPH-DRO) by EPA Method 8015B.

All analyzed constituents were below the laboratory reporting limits, with the exception of total lead which was reported at 9.9 mg/kg. The laboratory report for the composite sample is presented as **Attachment D**.

The drums were transported off-site by Belshire Environmental Services, Inc. (BESI) and disposed of at a ConocoPhillips-approved disposal facility on January 21, 2010.

CONCLUSIONS AND RECOMMENDATIONS

In the May 8, 2009 letter, the ACHCSA expressed concerns that the potential contaminant volatilization of hydrocarbons to the indoor air exposure pathway needed to be assessed. In response to this letter, Delta conducted a soil vapor survey of the five on-site soil vapor wells.

Analytical results from the soil vapor samples collected in a summa canister from SV-1, SV-2, SV-4, and SV-5 indicated the leak detection compound isopropanol was reported between 60 µg/m^3 to 6,200 µg/m^3. According to Air Toxic's report, *Evaluating Leaks in a Soil Gas Sampling Train*, Delta's highest reported leak detection compound concentration (6,200 µg/m^3 or 6.2 µg/L) corresponds to a less than 0.005% leak rate. In general, a leak rate of 10% or less is considered to be insignificant. Therefore, the reported concentrations of isopropanol in the samples collected during the sampling event are insignificant, and the analytical results should be considered valid.

The reported soil vapor concentrations in wells SV-1 through SV-5 were well below the San Francisco Bay Regional Water Quality Control Board's (SFBRWQCB) Environmental Screening Levels (ESLs) for commercial land use for benzene (380 µg/m^3), MTBE (31,000 µg/m^3), toluene (180,000 µg/m^3), and ethylbenzene (3,300 µg/m^3). An ESL for xylenes has not been established. The remaining analyzed fuel oxygenates were not reported above the laboratory LRL.

The reported soil vapor TPHg concentration in soil vapor wells SV-2 (1,400 µg/m^3) and SV-5 (16,000 µg/m^3) are both well below the ESL of 29,000 µg/m^3 for commercial land use. However, the soil vapor sample collected from SV-4 (35,000 µg/m^3) is above the ESL. Soil vapor well SV-4 is located on the western portion of the property, approximately 50 feet northwest of the station building (**Figure 2**).

Based on the distance from the station building and the soil vapor TPHg concentrations in wells SV-1 (<920 µg/m^3) and SV-2 (1,400 µg/m^3) adjacent to the station building, it does not appear intrusion of soil vapor into the service station building is a concern at the site. Additionally, the site is capped with asphalt and concrete, impeding the upward movement of soil vapor towards potential receptors. Therefore, Delta recommends suspension of additional soil vapor sampling events.

The previous groundwater sampling event was conducted by Delta on July 22, 2009. TPH-G was below the laboratory's indicated reporting limits in each of the groundwater samples collected for the six wells associated with the site. The highest benzene concentration was reported at 1.5 µg/L in well XW-2, northeast of the pump islands. The highest MTBE concentration was reported at 2.6 µg/L in monitoring well MW-6, in the southwestern portion of the fuel UST basin.

In January 1995, soil samples were collected at the boring for well MW-6. TPH-G was reported 89,000 mg/kg and TPH-D was reported at 480,000 mg/kg at a depth of 5 feet bgs. During the December 2009 investigation in soil gas well SV-4, which is in the vicinity of monitoring well MW-6, at a depth of 4.5 feet bgs, both TPH-G and TPH-D were below the laboratory's indicated reporting limits in the soil sample collected at this location.

The groundwater and soil have been assessed. No potential risk by vapor intrusion is expected at this time. Therefore, Delta recommends that the site be considered as a "Low Risk Site", and considered for a "No Further Action" status based on the January 1996 RWQCB criteria. The following items for site closure are listed below.

- The leak has been stopped and ongoing sources, including free product, removed or remediated.
- The site has been adequately characterized.
- The dissolved hydrocarbon plume is stable and decreasing.
- No water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted.
- The site presents no significant risk to human health; and
- The site presents no significant risk to the environment

REMARKS/SIGNATURES

The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report will be performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report.

Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no expressed or implied warranty as to the contents of this report.

If you have any questions regarding this project, please contact Tony Perini at (408) 826-1867.

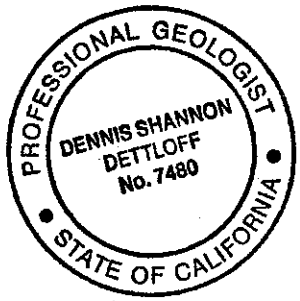
Sincerely,
DELTA CONSULTANTS

FOR

Tony Perini
Senior Project Engineer

Dennis S. Dettloff

Dennis S. Dettloff, P.G.
California Registered Professional Geologist No. 7480



Tables:
- Table 1 - Historical Soil Analytical Results
- Table 2 - Historical Grab Groundwater Analytical Results
- Table 3 - Soil Analytical Results (TPH-G, TPH-D, BTEX, MTBE)
- Table 4 - Soil Analytical Results (Fuel Oxygenates)
- Table 5 - Soil Gas Sampling Results (TPH-G, BTEX, MTBE, Fuel Oxygenates)
- Table 5A - Soil Gas Sampling Results (Expanded List & Fixed Gases)

Figures:
- Figure 1 - Site Location Map
- Figure 2 - Site Plan
- Figure 2A - Site Plan with Historical Sample Locations

Attachments:
- Attachment A - Agency letter
- Attachment B - Drilling Permits
- Attachment C - Boring Logs
- Attachment D - Laboratory Reports and Chain-of-Custody Documentation
- Attachment E - Blaine Tech Soil Gas Sampling Field Logs

cc: Mr. Eric Hetrick, ConocoPhillips (electronic copy only)

Tables

Table 1

HISTORICAL SOIL ANALYTICAL RESULTS
76 Station No.11270
Alameda, California

Sample ID	Date	Sample Depth (feet)	TPH-G (mg/kg)	TPH-D (mg/kg)	Oil & Grease (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	DIPE (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Ethanol (mg/kg)	Total Lead (mg/kg)
SW1		4.5	**2,000**	--	--	**18**	**56**	**39**	**270**	--	--	--	--	--	--	--	--	**6.5**
SW2		4.5	**8.0**	--	--	**0.31**	**0.084**	**0.26**	**1.2**	--	--	--	--	--	--	--	--	**1.7**
SW3		8	**860**	--	--	**5**	**2.8**	**7.5**	**13**	--	--	--	--	--	--	--	--	**5.7**
SW4		4.5	**1.0**	--	--	**0.009**	**0.017**	**0.0099**	**0.03**	--	--	--	--	--	--	--	--	**0.071**
SW5		4.5	**15**	--	--	**0.035**	**0.26**	**0.14**	**0.49**	--	--	--	--	--	--	--	--	**2.1**
SW6		4.5	**1.5**	--	--	**0.0079**	**0.0052**	**0.023**	**0.069**	--	--	--	--	--	--	--	--	**2.9**
SW7		4.5	<1.0	--	--	**0.034**	**0.0073**	**0.042**	**0.076**	--	--	--	--	--	--	--	--	**36**
SW8		4.5	<1.0	--	--	**0.01**	**0.0098**	**0.016**	**0.035**	--	--	--	--	--	--	--	--	**5.8**
SW9		4.5	<1.0	--	--	**0.024**	<0.005	**0.02**	**0.026**	--	--	--	--	--	--	--	--	**11**
P1		4.5	**6,900**	--	--	**70**	**260**	**120**	**700**	--	--	--	--	--	--	--	--	**0.91**
P1(8)		8	**7.0**	--	--	**1.0**	**0.025**	**0.19**	**0.47**	--	--	--	--	--	--	--	--	**1.7**
P2		4.5	<1.0	--	--	**0.0058**	**0.005**	**0.01**	**0.023**	--	--	--	--	--	--	--	--	**1.6**
TB1-S, 2.5-3	10/26/94	ND	ND	ND	ND	0	ND	ND	ND	--	--	--	--	--	--	--	--	--
TB1-S, 5.5-6	10/26/94	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
TB2-S, 2.5-3	10/26/94	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
TB2-S, 6.5-7	10/26/94	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
MW-5-5	6/17/93	5	<1,000	**11,000**	--	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--
MW-6-5	1/19/95	5	**89,000**	**480,000**	--	<50	**210**	**630**	**4,800**	--	--	--	--	--	--	--	--	--
MW-7-5	1/18/95	5	<50	**111,000**	--	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--	--	--
OWS-1-0.5	12/12/96	0.5	ND	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
OWS-1-2	12/12/96	2	ND	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
S-1	8/15/97	0.5-1	<0.1	--	--	<0.001	**0.085**	<0.002	**0.0047**	<0.1	--	--	--	--	--	--	--	--
S-2	8/15/97	0.5-1	<0.1	--	--	<0.001	**0.047**	<0.002	<0.002	<0.1	--	--	--	--	--	--	--	--
S-3	8/15/97	0.5-1	<0.1	--	--	<0.001	**0.058**	<0.002	<0.002	<0.1	--	--	--	--	--	--	--	--
S-4	8/15/97	0.5-1	<0.1	--	--	<0.001	**0.049**	<0.002	<0.002	<0.1	--	--	--	--	--	--	--	--
S-6-T1E	7/9/98	6	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--	--	--	--	ND
PD-1-2	8/7/00	2	<1.0	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	<10
PD-2-1.5	8/7/00	1.5	<1.0	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	<10
PD-3-1.5	8/7/00	1.5	<1.0	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	<10
PD-4-1.5	8/7/00	1.5	<1.0	--	--	<0.005	<0.005	<0.005	<0.005	**0.0582**	--	--	--	--	--	--	--	<10
PL-3-1.5	8/7/00	1.5	<1.0	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	<10
PL-6-.15	8/7/00	1.5	<1.0	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	<10
PL-7-1.5	8/7/00	1.5	<1.0	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	<10
F-1-4	8/7/00	4	<1.0	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	<10
F-2-4	8/7/00	4	<1.0	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	<10
F-5-3	8/7/00	4	<1.0	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	<10

TPH-G = total purgeable petroleum hydrocarbons as gasoline by EPA Method 8260B
TPH-D = total purgeable petroleum hydrocarbons as diesel by EPA Method 8015
TPH-O = total purgeable petroleum hydrocarbons as oil by EPA Method 8015
BTEX = benzene, toluene, ethylbenzene, total xylenes by EPA Method 8020 or 8260B
MTBE = methyl tertiary butyl ether by EPA Method 8020 or 8260B
TBA = tertiary butyl alcohol by EPA Method 8260B
ETBE = ethyl tertiary butyl ether by EPA Method 8260B
TAME = tertiary amyl methyl ether by EPA Method 8260B
DIPE = di-isopropyl ether by EPA Method 8260B

1,2-DCA = 1,2-Dichloroethane (also known as ethylene dichloride) by EPA Method 8260B
EDB = ethylene dibromide (also known as 1,2-Dibromoethane) by EPA method 8260B
Ethanol was analyzed by EPA Method 8260B

mg/kg = milligrams per kilogram
ND = not detected above the laboratory detection limit (reporting limit unkown)
-- = not analyzed
Bold = detected compound concentration
EPA = US Environmental Protection Agency

Table 2
HISTORICAL GRAB GROUNDWATER ANALYTICAL RESULTS
76 Station No. 1270
Alameda, California

Sample ID	Date	Sample Depth (feet)	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	ETBE (µg/L)	TAME (µg/L)	DIPE (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)
TB1-W-11.5	10/26/94	11.5	**1,500**	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--
TB-2-W-11.5	10/26/94	11.5	**310**	ND	ND	ND	1.0	ND	1.0	--	--	--	--	--	--	--	--

TPH-G = total purgeable petroleum hydrocarbons as gasoline by EPA Method 8260B
TPH-D = total purgeable petroleum hydrocarbons as diesel by EPA Method 8015
TPH-O = total purgeable petroleum hydrocarbons as oil by EPA Method 8015
BTEX = benzene, toluene, ethylbenzene, total xylenes by EPA Method 8020 or 8260B
MTBE = methyl tertiary butyl ether by EPA Method 8260B
TBA = tertiary butyl alcohol by EPA Method 8260B
ETBE = ethyl tertiary butyl ether by EPA Method 8260B
TAME = tertiary amyl methyl ether by EPA Method 8260B
DIPE = di-isopropyl ether by EPA Method 8260B
1,2-DCA = 1,2-Dichloroethane (also known as ethylene dichloride) by EPA Method 8260B
EDB = ethylene dibromide (also known as 1,2-Dibromoethane) by EPA method 8260B
Ethanol was analyzed by EPA Method 8260B

mg/kg = milligrams per kilogram
ND = not detected above the laboratory detection limit (no reporting limit available)
-- = not analyzed
Bold = detected compound concentration
EPA = US Environmental Protection Agency

Table 3
Soil Analytical Results (TPH-G, TPH-D, BTEX, MTBE)
76 Service Station No. 11270
3255 Mecartney Road, Alameda, CA

Sample ID	Date	TPH-G (mg/kg)	TPH-D (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MtBE (mg/kg)	Total Lead (mg/kg)
SV-1 @4.5 feet	**12/10/2010**	<0.23	<5.9	<0.0027	<0.0027	<0.0027	<0.0055	<0.0027	NA
SV-2 @4.5 feet	**12/10/2010**	<0.22	<5.8	<0.0027	<0.0027	<0.0027	<0.0054	<0.0027	NA
SV-3 @4.5 feet	**12/11/2010**	<0.23	<5.8	<0.0028	<0.0028	<0.0028	<0.0055	<0.0028	NA
SV-4 @4.5 feet	**12/11/2010**	<0.24	<6.0	<0.0028	<0.0028	<0.0028	<0.0056	<0.0028	NA
SV-5 @4.5 feet	**12/10/2010**	<0.24	**50.9**	<0.0029	<0.0029	<0.0029	<0.0058	**0.022**	NA
comp ABCD	**12/11/2009**	<0.25	<5.9	<0.0030	<0.0030	<0.0030	<0.0059	<0.0030	**9.9**

Notes:
TPH-G: Total petroleum hydrocarbons as gasoline (C5-C12)
TPH-D: Total petroleum hydrocarbons as diesel (C10-C24)
MtBE: Methyl tertiary butyl ether

mg/Kg: milligrams per kilogram
<: Below the laboratory
NA: Not Analyzed

Table 4
Soil Analytical Results (Fuel Oxygenates)
76 Service Station No.11270
3255 Mecartney Road, Alameda, CA

Sample ID	Date	TAME (mg/kg)	TBA (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	DIPE (mg/kg)	Ethanol (mg/kg)	ETBE (mg/kg)
SV-1 @4.5 feet	12/10/2010	<0.0027	<0.014	<0.0027	<0.0027	<0.0027	<0.37	<0.0027
SV-2 @4.5 feet	12/10/2010	<0.0027	<0.013	<0.0027	<0.0027	<0.0027	<0.36	<0.0027
SV-3 @4.5 feet	12/11/2010	<0.0028	<0.014	<0.0028	<0.0028	<0.0028	<0.37	<0.0028
SV-4 @4.5 feet	12/11/2010	<0.0028	<0.014	<0.0028	<0.0028	<0.0028	<0.38	<0.0028
SV-5 @4.5 feet	12/10/2010	<0.0029	**0.032**	<0.0029	<0.0029	<0.0029	<0.38	<0.0029
comp ABCD	12/11/2010	<0.0030	<0.015	<0.0030	<0.0030	<0.0030	<0.39	<0.0030

Notes
TBA: Tertiary butyl alcohol
ETBE: Ethyl tertiary butyl ether
TAME: Tertiary amyl methyl ether
DIPE: Di-isopropyl ether
ETBE: Ethyl tertiary butyl ether

EDB: 1,2-Dibromoethane
1,2-DCA: 1,2-dichloroethane

mg/Kg: milligrams per kilogram
<: Below the laboratory indicated

Table 5
Soil Gas Analytical Results (TPH-G, BTEX, MTBE, Fuel Oxygenates)
76 Service Station No.11270
3255 Mecartney Road, Alameda, CA

Sample ID	Date	TPH-G ($\mu g/m^3$)	MTBE ($\mu g/m^3$)	Benzene ($\mu g/m^3$)	Toluene ($\mu g/m^3$)	Ethyl-benzene ($\mu g/m^3$)	M,P-Xylenes ($\mu g/m^3$)	O-Xylenes ($\mu g/m^3$)	1,2-DCA ($\mu g/m^3$)	EDB ($\mu g/m^3$)	Ethanol ($\mu g/m^3$)	TAME ($\mu g/m^3$)
SV-1	1/8/2010	<920	<8.1	9.9	40	<9.7	<9.7	<9.7	<9.0	<17	<21	<47
SV-2	1/8/2010	1,400	60	33	60	<8.7	<8.7	10	<8.1	<16	<19	<42
SV-3	1/8/2010	<770	<6.7	12	49	<8.0	<8.0	11	<7.5	<14	<18	<39
SV-4	1/8/2010	35,000	92	13	54	<7.7	8.2	12	<7.2	<14	<17	<38
SV-5	1/8/2010	16000	4,700	14	45	<8.5	<8.5	13	<7.9	<15	<19	<42

notes:
<: below the laboratory reporting limit
$\mu g/m^3$: micrograms per cubic meter

MTBE: Methyl tertiary butyl ether
1,2-DCA: 1,2-dichloroethane

EDB: 1,2-dibromoethane
TAME: tertiary amyl methyl ether
TPH-G: total petroleum hydrocarbons as gasoline

Table 5A
Soil Gas Analytical Results (Expanded List & Fixed Gases)
76 Service Station No. 11270
3255 Mecartney Road, Alameda, CA

Sample ID	Date	Iso-propanol ($\mu g/m^3$)	t-butanol ($\mu g/m^3$)	Isopropyl ether ($\mu g/m^3$)	TBEE ($\mu g/m^3$)	Oxygen/ Argon (% v/v)	Nitrogen (% v/v)	Methane (% v/v)	CO_2 (% v/v)	CO (% v/v)
SV-1	1/8/2010	1,200	<34	<47	<47	16	82	<0.0022	4.0	<0.0022
SV-2	1/8/2010	60	<30	<42	<42	1.6	35	55	10	<0.0020
SV-3	1/8/2010	<22	<28	<39	<39	12	78	<0.0019	8.6	<0.0019
SV-4	1/8/2010	6,200	<27	<38	<38	2.9	87	0.89	9.3	<0.0018
SV-5	1/8/2010	3,800	<30	<42	<42	5.1	76	10	9.0	<0.0020

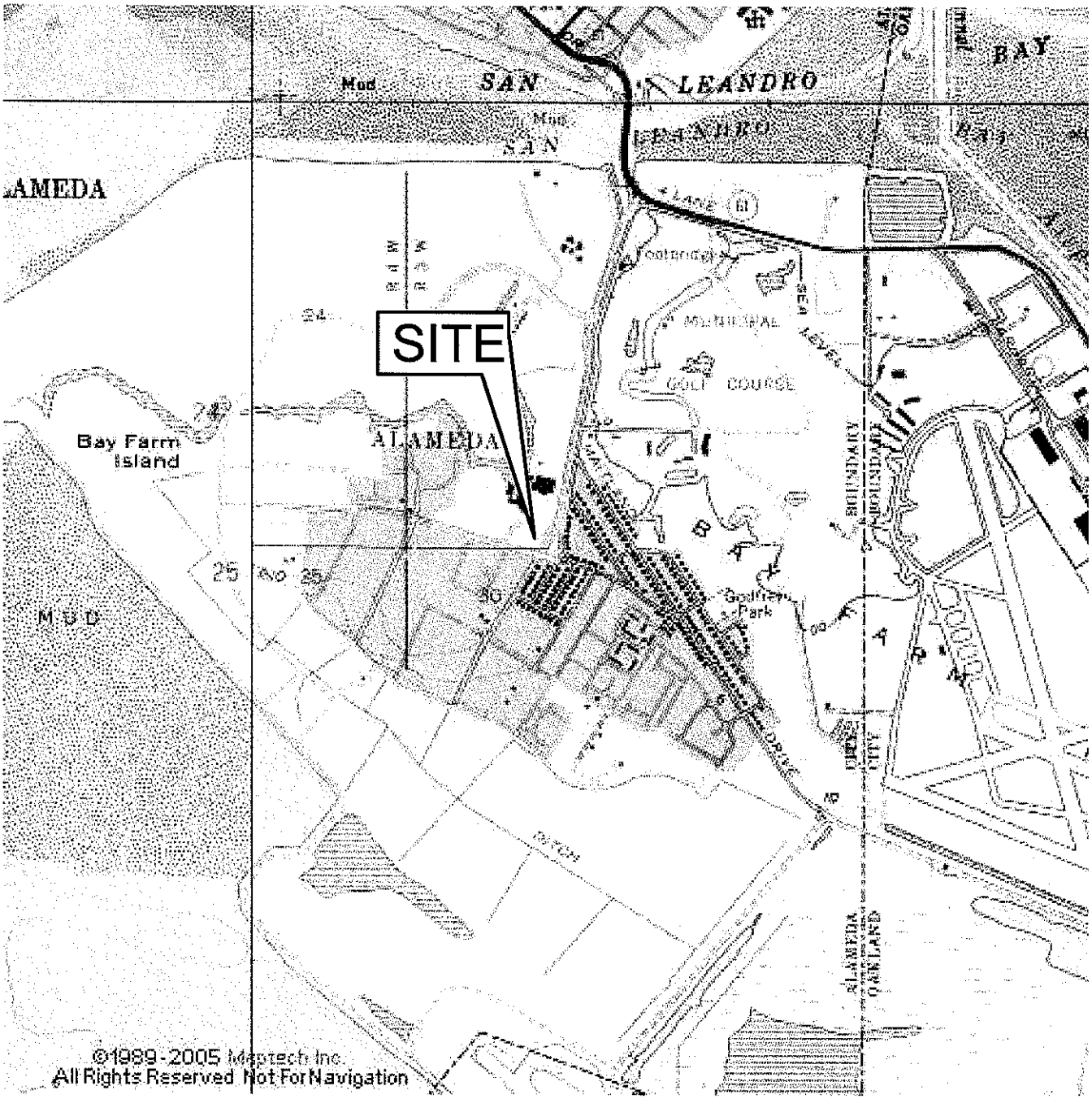
notes:
<: below the laboratory reporting limit
$\mu g/m^3$: micrograms per cubic meter
MTBE: Methyl tertiary butyl ether
1,2-DCA: 1,2-dichloroethane

(%) v/v: percent volume of gas per volume of air

TBEE: tertiary butyl ethyl ether
CO_2: Carbon Dioxide

CO: Carbon Monoxide

Figures



North

0 900 1800 FT

SCALE

FIGURE 1

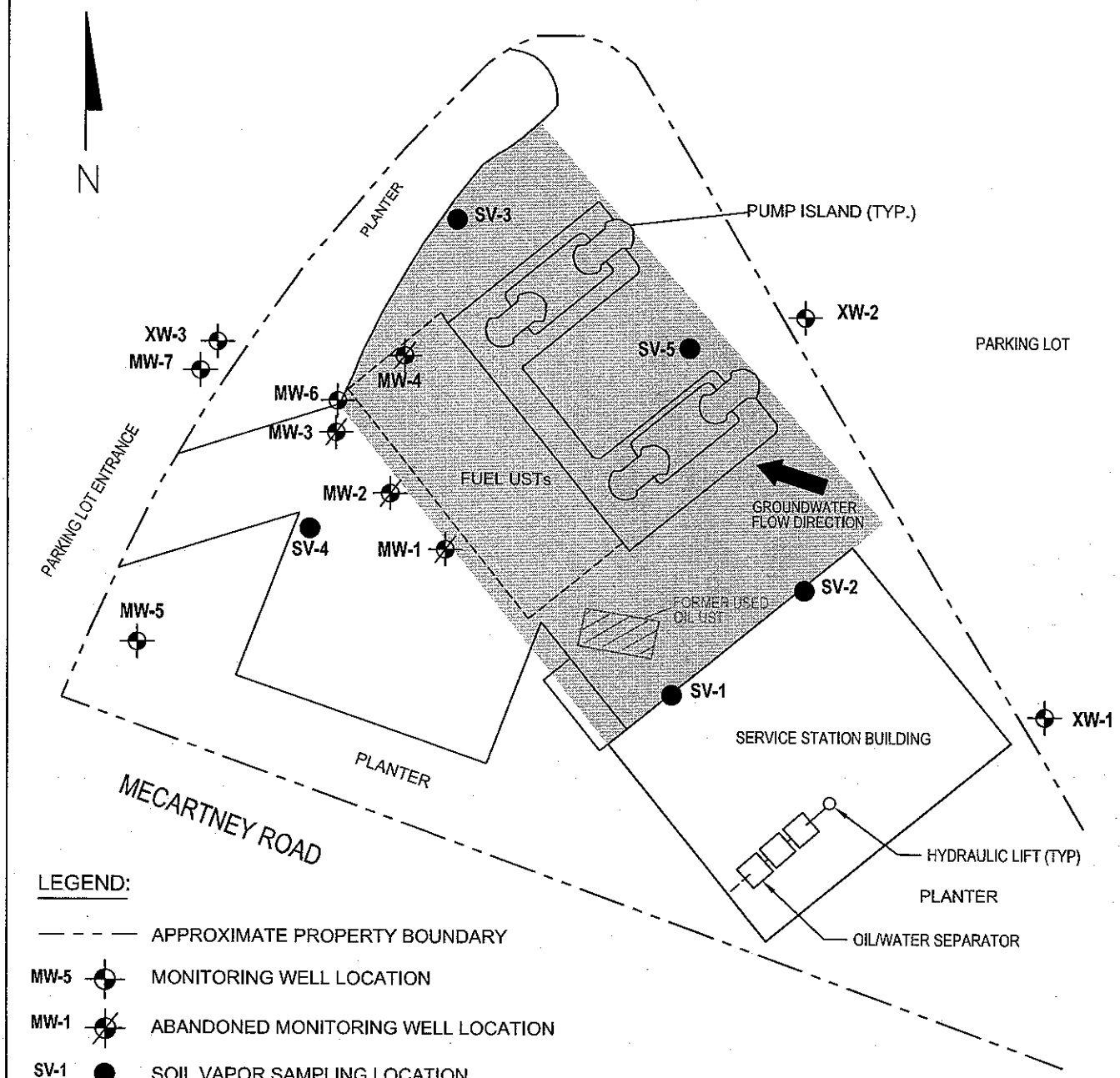
SITE LOCATION MAP

76 STATION NO. 11270
3255 MECARTNEY ROAD
ALAMEDA, CALIFORNIA

PROJECT NO. 142611270	DRAWN BY JH 06/02/09
FILE NO. 11270-SiteLocator	PREPARED BY DD
REVISION NO.	REVIEWED BY

DELTA®

SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, SAN LEANDRO & HUNTERS POINTE QUADRANGLES (1973)



LEGEND:

- APPROXIMATE PROPERTY BOUNDARY
- MW-5 MONITORING WELL LOCATION
- MW-1 ABANDONED MONITORING WELL LOCATION
- SV-1 SOIL VAPOR SAMPLING LOCATION
- APPROXIMATE AREA FILLED WITH PEA GRAVEL IN THE SHALLOW SUB-SURFACE PER FACILITY OPERATOR

0 20 FT

SCALE

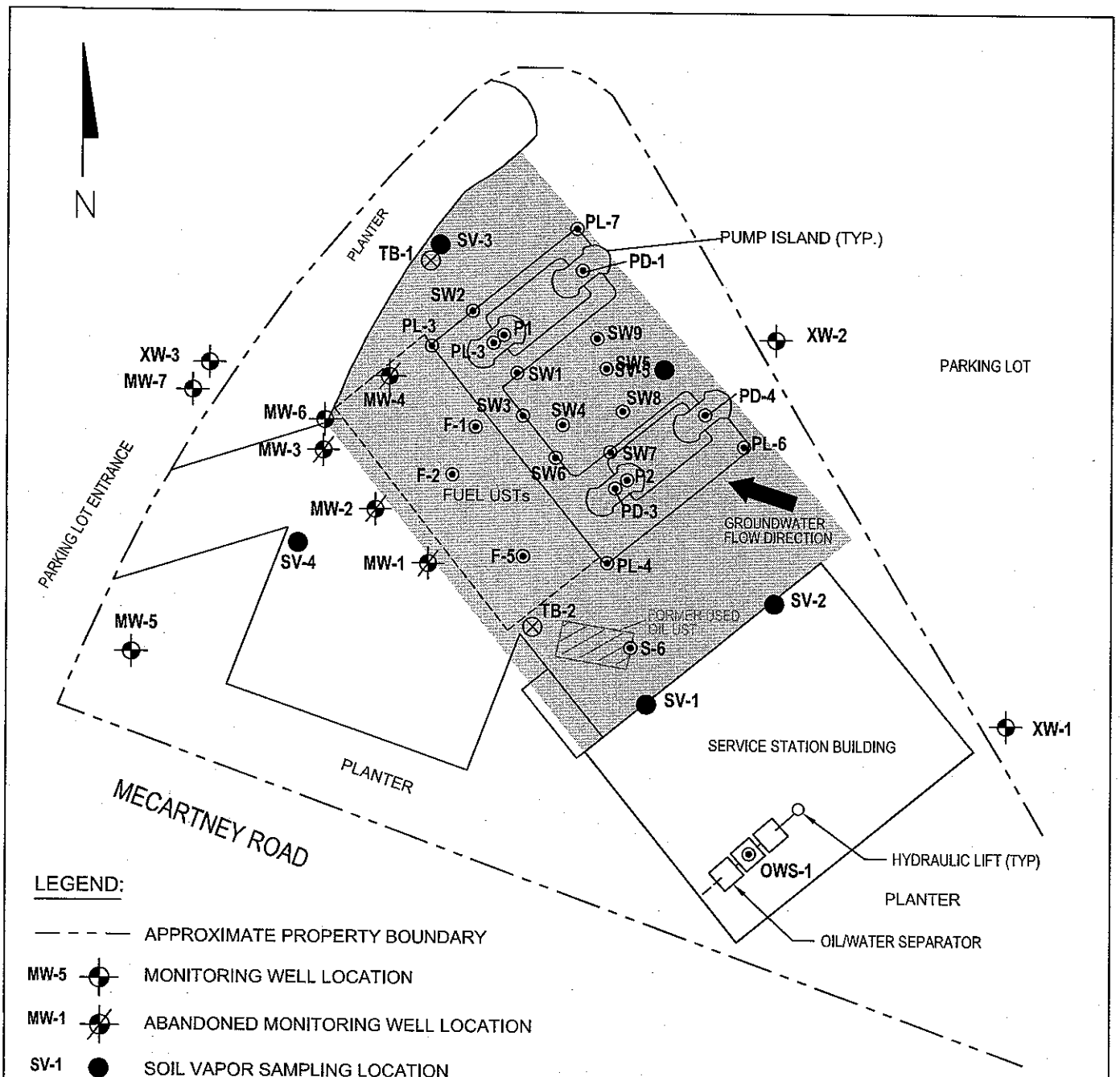
MAP ADAPTED FROM A MAP DATED 10/14/08 BY BROADBENT & ASSOCIATES, INC ENTITLED "SITE MAP".

FIGURE 2
SITE PLAN

BP STATION NO. 11270
3255 MECARTNEY ROAD
ALAMEDA, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142611270	TP	JH
DATE	REVIEWED BY	FILE NAME
02/09/10	DD	11270-Site

DELTA®



LEGEND:

- APPROXIMATE PROPERTY BOUNDARY
- MW-5 — MONITORING WELL LOCATION
- MW-1 — ABANDONED MONITORING WELL LOCATION
- SV-1 — SOIL VAPOR SAMPLING LOCATION
- APPROXIMATE AREA FILLED WITH PEA GRAVEL IN THE SHALLOW SUB-SURFACE PER FACILITY OPERATOR
- TB-2 — TOSCO BORING LOCATION
- S-6 — SOIL SAMPLE LOCATION

0 20 FT
SCALE

MAP ADAPTED FROM A MAP DATED 10/14/08 BY BROADBENT & ASSOCIATES, INC ENTITLED "SITE MAP".

FIGURE 2A
SITE PLAN WITH HISTORICAL SAMPLE LOCATIONS
BP STATION NO. 11270
3255 MECARTNEY ROAD
ALAMEDA, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
142611270	TP	JH
DATE	REVIEWED BY	FILE NAME
02/09/10	DD	11270-Site

DELTA®

Attachment A

Agency Letter

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

October 22, 2009

Paul Supple (*Sent via E-mail to: paul.supple@bp.com*)
Atlantic Richfield Company
(A BP Affiliated Company)
P.O. Box 1257
San Ramon, CA 94583

Terry Grayson (*Sent via E-mail to: Terry.L.Grayson@contractor.conocophillips.com*)
ConocoPhillips
76 Broadway
Sacramento, CA 95818

Ping Liu Chien (*Sent via E-mail to: JamesLiu2000@aol.com*)
Harbor Bay Landing, LLC.
P.O. Box 117610
Burlingame, CA 94011

Subject: Work Plan Addendum for Fuel Leak Case No. RO0000511 and GeoTracker Global ID T0600101198, BP #11270, 3255 Mecartney Road, Alameda, CA 94501

Dear Messrs. Supple, Grayson, and Chien:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site including the recently submitted document entitled, "Soil Vapor Survey-Work Plan Addendum," dated September 14, 2009, which was prepared by Delta Consultants for the subject site. In response to concerns stated in our August 13, 2009 correspondence, Delta proposes to collect three additional soil vapor (five total) to characterize the site. Also, Delta proposes to install vapor monitoring points into borings excavated by a two-inch diameter hand-auger and use isopropyl alcohol as a tracer gas.

ACEH generally concurs with the proposed scope of work and request that you perform the proposed work, and send us the technical reports requested below.

TECHNICAL REPORT REQUEST

Please submit technical reports to ACEH (Attention: Paresh Khatri), according to the following schedule:

- **January 20, 2010** – Soil and Water Investigation Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the

responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml.

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

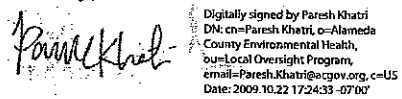
Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

Thank you for your cooperation. Should you have any questions regarding this letter, please call me at (510) 777-2478 or send me an electronic mail message at paresh.khatri@acgov.org.

Sincerely,



Paresh C. Khatri
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Dennis S. Dettloff, Delta, 11050 White Rock Road, Suite 110, Rancho Cordova, CA 95670
Tony Perini, Delta, 11050 White Rock Road, Suite 110, Rancho Cordova, CA 95670
Donna Drogos, ACEH (*Sent via E-mail to: donna.drogos@acgov.org*)
Paresh Khatri, ACEH (*Sent via E-mail to: paresh.khatri@acgov.org*)
GeoTracker
File

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**ISSUE DATE:** July 5, 2005
	REVISION DATE: March 27, 2009
	PREVIOUS REVISIONS: December 16, 2005, October 31, 2005
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection**. (Please do not submit reports as attachments to electronic mail.)
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements **must** be included and have either original or electronic signature.
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted**.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:
  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in **Excel** format. These are for use by assigned Caseworker only.

Submission Instructions

1) Obtain User Name and Password:
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to dehloptoxic@acgov.org
         Or
      ii) Send a fax on company letterhead to (510) 337-9335, to the attention of My Le Huynh.
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for.**

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape and Firefox browsers will not open the FTP site.
   b) Click on File, then on Login As.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO# use the street address instead.
   d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

Attachment B

Drilling Permits

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 12/01/2009 By jamesy

Permit Numbers: W2009-1057 to W2009-1061
Permits Valid from 12/10/2009 to 12/10/2009

Application Id: 1259178022272
Site Location: 3255 MeCartney Rd, Alameda, CA
City of Project Site: Alameda
Project Start Date: 12/10/2009
Completion Date: 12/10/2009
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

Applicant: Delta - Jonathan Fillingame
11050 White Rock Rd, Ste 110, Rancho Cordova, CA 95670
Phone: 916-288-0150

Property Owner: RP-Ping Liu Chien
PO Box 117610, Burlingame, CA 94011
Phone: --

Client: ** same as Property Owner **

Receipt Number: WR2009-0425
Payer Name : Delta

Total Due: $1985.00
Total Amount Paid: $1985.00
Paid By: CHECK
PAID IN FULL

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 5 Wells
Driller: Gregg Drilling - Lic #: 485165 - Method: Hand

Work Total: $1985.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2009-1057	12/01/2009	03/10/2010	SV-1	2.00 in.	0.25 in.	2.00 ft	5.00 ft
W2009-1058	12/01/2009	03/10/2010	SV-2	2.00 in.	0.25 in.	2.00 ft	5.00 ft
W2009-1059	12/01/2009	03/10/2010	SV-3	2.00 in.	0.25 in.	2.00 ft	5.00 ft
W2009-1060	12/01/2009	03/10/2010	SV-4	2.00 in.	0.25 in.	2.00 ft	5.00 ft
W2009-1061	12/01/2009	03/10/2010	SV-5	2.00 in.	0.25 in.	2.00 ft	5.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permitte, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities

or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

8. Minimum surface seal thickness is two inches of cement grout placed by tremie

9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

Attachment C

Boring Logs

Delta

Consultants, Inc.

Project No:	I42611270	Client:	ELT	Well No: SV-1	
Logged By:	Joe Dumas	Location:	3255 Mecartney Rd, Alameda, CA	Page 1 of 1	
Driller:	Gregg Drilling	Date Drilled:	12/10/2009	Location Map - See Site Map for Location	
Drilling Method:	Hand Auger	Hole Diameter:	3"		
Sampling Method:	Hand Auger	Hole Depth:	5' 2"		
Casing Type:	1/4"OD, 0.17"ID Nylaflow	Well Diameter:	1/4"		
Slot Size:	Vapor Tip	Well Depth:	5'		
Gravel Pack:	-	Casing Stickup:	-		
Elevation		Northing		Easting	

Well Completion (Backfill / Casing / Backfill)	Well Details	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
	7" diam vault									Concrete
	grout					1				Pea Gravel
	1/4"Nylaflow tubing					2			CL	**Lean Clay with Sand:** brown, 20% fine sand, medium plastic, medium stiff, moist
	bentonite					3				
	sand					4				
	vapor tip		MOIST	0.1		5				As above: becoming dark brown in color
										Boring terminated at 5 feet 2 inches below ground surface.
						6				
						7				
						8				
						9				
						10				
						11				
						12				
						13				
						14				
						15				
						16				
						17				
						18				
						19				
						20				
						21				
						22				
						23				
						24				
						25				

Delta
Consultants, Inc.

Project No:	142611270	Client:	ELT	Well No: SV-2
Logged By:	Joe Dumas	Location:	3255 Mecartney Rd, Alameda, CA	Page 1 of 1
Driller:	Gregg Drilling	Date Drilled:	12/10/2009	Location Map - See Site Map for Location
Drilling Method:	Hand Auger	Hole Diameter:	3"	
Sampling Method:	Hand Auger	Hole Depth:	5' 2"	
Casing Type:	1/4"OD, 0.17"ID Nylaflow	Well Diameter:	1/4"	
Slot Size:	Vapor Tip	Well Depth:	5'	
Gravel Pack:	-	Casing Stickup:	-	
Elevation		Northing		Easting

Well Completion (Backfill / Casing / Backfill)	Well Details	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
	7" diam vault									9" Concrete
	grout									3" Pea Gravel
	1/4"Nylaflow tubing					1			CL	**Lean Clay with Sand:** dark brown, 20% fine sand, medium plastic, medium stiff, moist
	bentonite					2				
						3				
	sand					4				
	vapor tip		MOIST	0.4		5			ML	**Silt**: black, 10% fine sand, non-plastic, soft, moist
						6				Boring terminated at 5 feet 2 inches below ground surface.
						7				
						8				
						9				
						10				
						11				
						12				
						13				
						14				
						15				
						16				
						17				
						18				
						19				
						20				
						21				
						22				
						23				
						24				
						25				

Delta

Consultants, Inc.

Project No:	I42611270	Client:	ELT	Well No: SV-3	
Logged By:	Joe Dumas	Location:	3255 Mecartney Rd, Alameda, CA	Page 1 of 1	
Driller:	Gregg Drilling	Date Drilled:	12/11/2009	Location Map - See Site Map for Location	
Drilling Method:	Hand Auger	Hole Diameter:	3"		
Sampling Method:	Hand Auger	Hole Depth:	5' 2"		
Casing Type:	1/4"OD, 0.17"ID Nylaflow	Well Diameter:	1/4"		
Slot Size:	Vapor Tip	Well Depth:	5'		
Gravel Pack:	-	Casing Stickup:	-		
Elevation		Northing		Easting	

Well Completion: Backfill	Well Completion: Casing	Well Completion: Backfill	Well Details	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
			7" diam vault									4" Concrete; 2" Pea Gravel
			grout								SW-SC	**Well Graded Sand with Clay**: tan with white
			1/4"Nylaflow tubing					1			SW	(trace white substance has the consistency of clay), 10% fines, medium dense
			bentonite					2				**Well Graded Sand:** light brown, <5% fines, loose
								3			SC	**Clayey Sand**: light brown-red with trace gray clay, 25% fines, 10% coarse gravel, dense
			sand					4				
			vapor tip		MOIST						SM	**Silty Sand:** brown, 20% fines, 10% organic matter, medium dense
								5				Boring terminated at 5 feet 2 inches below ground surface.
								6				
								7				
								8				
								9				
								10				
								11				
								12				
								13				
								14				
								15				
								16				
								17				
								18				
								19				
								20				
								21				
								22				
								23				
								24				
								25				

Delta

Consultants, Inc.

Project No:	I42611270	Client:	ELT	Well No: SV-4	
Logged By:	Joe Dumas	Location:	3255 Mecartney Rd, Alameda, CA	Page 1 of 1	
Driller:	Gregg Drilling	Date Drilled:	12/11/2009	Location Map - See Site Map for Location	
Drilling Method:	Hand Auger	Hole Diameter:	3"		
Sampling Method:	Hand Auger	Hole Depth:	5' 2"		
Casing Type:	1/4"OD, 0.17"ID Nylaflow	Well Diameter:	1/4"		
Slot Size:	Vapor Tip	Well Depth:	5'		
Gravel Pack:	-	Casing Stickup:	-		
Elevation		Northing		Easting	

Well Completion: Backfill	Well Completion: Casing	Well Completion: Backfill	Well Details	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
			7" diam vault									Concrete
			grout					1			SW	**Well Graded Sand:** tan, 85% fine sand, 15% medium sand, loose
			1/4"Nylaflow tubing					2			CL	**Lean Clay**: brown, 10% fine sand, medium plastic, moist
			bentonite					3			CL	**Lean Clay with Sand:** brown-red, 15% fine sand, medium plastic, moist
			sand					4			ML	**Silt:** black, 5% fine sand, low plastic, moist
			vapor tip		MOIST			5				Boring terminated at 5 feet 2 inches below ground surface.
								6				
								7				
								8				
								9				
								10				
								11				
								12				
								13				
								14				
								15				
								16				
								17				
								18				
								19				
								20				
								21				
								22				
								23				
								24				
								25				

Delta

Consultants, Inc.

Project No:	I42611270	Client:	ELT	Well No: SV-5
Logged By:	Joe Dumas	Location:	3255 Mecartney Rd, Alameda, CA	Page 1 of 1
Driller:	Gregg Drilling	Date Drilled:	12/10/2009	Location Map - See Site Map for Location
Drilling Method:	Hand Auger	Hole Diameter:	3"	
Sampling Method:	Hand Auger	Hole Depth:	5' 2"	
Casing Type:	1/4"OD, 0.17"ID Nylaflow	Well Diameter:	1/4"	
Slot Size:	Vapor Tip	Well Depth:	5'	
Gravel Pack:	-	Casing Stickup:	-	
Elevation		Northing		Easting

Well Completion: Backfill	Well Completion: Casing	Well Completion: Backfill	Well Details	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
			7" diam vault									Concrete
			grout					1				Pea Gravel
			1/4"Nylaflow tubing					2			CL	**Lean Clay:** dark brown, 10% fine gravel, medium plastic, medium stiff, moist, trace sand
			bentonite					3				
			sand					4			ML	**Silt:** black, <5% fine sand, non-plastic, soft, moist
			vapor tip		MOIST	0.4		5				Boring terminated at 5 feet 2 inches below ground surface.
								6				
								7				
								8				
								9				
								10				
								11				
								12				
								13				
								14				
								15				
								16				
								17				
								18				
								19				
								20				
								21				
								22				
								23				
								24				
								25				

Attachment D

Laboratory Reports
and
Chain-of-Custody Documentation

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

December 23, 2009

Tony Perini
ELT_Delta Consultants San Jose
312 Percy Rd.
San Jose, CA 95138

RE: Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

Dear Tony Perini:
Enclosed are the analytical results for sample(s) received by the laboratory on December 12, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Regina Ste. Marie

Regina SteMarie

regina.stemarie@pacelabs.com
Project Manager

Enclosures

cc: Tara Bosch, ELT_Delta Consultants Sacramento
Dennis Dettloff, ELT_Delta Consultants Sacramen
Jonathon Fillingame, ELT_Delta Consultants Sacramento
Meghann Hurt, ELT_Delta Consultants Sacramento
Josh Mahoney, ELT_Delta Consultants San Jose
Don Pinkerton, ELT_Delta Consultants Sacramento
David Sowle, ELT_Delta Consultants Sacramento
Doug Umland, ELT_Delta Consultants San Jose
Ed Weyrens, ELT_Delta Consultants San Jose

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

CERTIFICATIONS

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

Washington Certification IDs
940 South Harney Street Seattle, WA 98108
Washington Certification #: C1229
Oregon Certification #: WA200007
Alaska CS Certification #: UST-025
California Certification #: 01153CA
Alaska Drinking Water Micro Certification #: WA01230
Alaska Drinking Water VOC Certification #: WA01-09
Florida/NELAP Certification #: E87617

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

SAMPLE ANALYTE COUNT

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
252653001	SV-1@ 4.5 _20021210	EPA 8015B	DMT	3	PASI-S
		EPA 8260	LPM	16	PASI-S
		CA LUFT	LPM	2	PASI-S
252653002	SV-2@4.5_20091210	EPA 8015B	DMT	3	PASI-S
		EPA 8260	LPM	16	PASI-S
		CA LUFT	LPM	2	PASI-S
252653003	SV-3@4.5_20091211	EPA 8015B	DMT	3	PASI-S
		EPA 8260	LPM	16	PASI-S
		CA LUFT	LPM	2	PASI-S
252653004	SV-4@4.5_20091211	EPA 8015B	DMT	3	PASI-S
		EPA 8260	LPM	16	PASI-S
		CA LUFT	LPM	2	PASI-S
252653005	SV-5@4.5_20091210	EPA 8015B	DMT	3	PASI-S
		EPA 8260	LPM	16	PASI-S
		CA LUFT	LNH	2	PASI-S

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

PROJECT NARRATIVE

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

Method: EPA 8015B
Description: 8015B CA Diesel Range Organics
Client: ELT_Delta San Jose, CA
Date: December 23, 2009

General Information:
5 samples were analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/1735

2n: Result was obtained from silica gel treated extract.

- BLANK (Lab ID: 17270)
  - TPH-DRO (C10-C24)
  - n-Octacosane (S)
  - o-Terphenyl (S)
- LCS (Lab ID: 17271)
  - TPH-DRO (C10-C24)
  - n-Octacosane (S)
  - o-Terphenyl (S)

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

PROJECT NARRATIVE

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

Method: **EPA 8015B**
Description: 8015B CA Diesel Range Organics
Client: ELT_Delta San Jose, CA
Date: December 23, 2009

Analyte Comments:

QC Batch: OEXT/1735

2n: Result was obtained from silica gel treated extract.

- MS (Lab ID: 17274)
  - TPH-DRO (C10-C24)
  - n-Octacosane (S)
  - o-Terphenyl (S)
- MSD (Lab ID: 17275)
  - TPH-DRO (C10-C24)
  - n-Octacosane (S)
  - o-Terphenyl (S)
- SV-1@ 4.5 _20021210 (Lab ID: 252653001)
  - TPH-DRO (C10-C24)
  - n-Octacosane (S)
  - o-Terphenyl (S)
- SV-2@4.5_20091210 (Lab ID: 252653002)
  - TPH-DRO (C10-C24)
  - n-Octacosane (S)
  - o-Terphenyl (S)
- SV-3@4.5_20091211 (Lab ID: 252653003)
  - TPH-DRO (C10-C24)
  - n-Octacosane (S)
  - o-Terphenyl (S)
- SV-4@4.5_20091211 (Lab ID: 252653004)
  - TPH-DRO (C10-C24)
  - n-Octacosane (S)
  - o-Terphenyl (S)
- SV-5@4.5_20091210 (Lab ID: 252653005)
  - TPH-DRO (C10-C24)
  - n-Octacosane (S)
  - o-Terphenyl (S)

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

PROJECT NARRATIVE

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

Method: **EPA 8260**
Description: 8260/5035A Volatile Organics
Client: ELT_Delta San Jose, CA
Date: December 23, 2009

General Information:
5 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/1794

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 252653001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 17532)
  - 1,2-Dichloroethane

QC Batch: MSV/1795

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 252653005

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 17445)
  - 1,2-Dichloroethane
  - Methyl-tert-butyl ether
- MSD (Lab ID: 17446)
  - 1,2-Dibromoethane (EDB)
  - 1,2-Dichloroethane
  - Ethyl-tert-butyl ether
  - Ethylbenzene

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

PROJECT NARRATIVE

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

Method: **EPA 8260**
Description: 8260/5035A Volatile Organics
Client: ELT_Delta San Jose, CA
Date: December 23, 2009

QC Batch: MSV/1795

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 252653005

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- Methyl-tert-butyl ether
- Xylene (Total)
- tert-Amylmethyl ether

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

PROJECT NARRATIVE

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

Method: CA LUFT
Description: CA LUFT MSV GRO
Client: ELT_Delta San Jose, CA
Date: December 23, 2009

General Information:
5 samples were analyzed for CA LUFT. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

QC Batch: MSV/1797

IS: The internal standard response is below criteria. Results may be biased high.
- MS (Lab ID: 17521)
  - TPH-Gasoline (C05-C12)
- MSD (Lab ID: 17522)
  - TPH-Gasoline (C05-C12)

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

PROJECT NARRATIVE

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

Method: **CA LUFT**
Description: CA LUFT MSV GRO
Client: ELT_Delta San Jose, CA
Date: December 23, 2009

Analyte Comments:

QC Batch: MSV/1797

1n: Matrix spike recovery and/or matrix spike duplicate recovery exceeded laboratory control limits due to low internal standard areas.

- MS (Lab ID: 17521)
  - TPH-Gasoline (C05-C12)
- MSD (Lab ID: 17522)
  - TPH-Gasoline (C05-C12)

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

Sample: SV-1@ 4.5 _20021210 **Lab ID: 252653001** Collected: 12/10/09 14:55 Received: 12/12/09 10:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	ND	mg/kg	5.9	1	12/14/09 16:05	12/16/09 17:48		2n
o-Terphenyl (S)	103	%	50-150	1	12/14/09 16:05	12/16/09 17:48	84-15-1	2n
n-Octacosane (S)	107	%	50-150	1	12/14/09 16:05	12/16/09 17:48	630-02-4	2n
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0027	1		12/16/09 16:29	994-05-8	
Benzene	ND	mg/kg	0.0027	1		12/16/09 16:29	71-43-2	
tert-Butyl Alcohol	ND	mg/kg	0.014	1		12/16/09 16:29	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0027	1		12/16/09 16:29	106-93-4	
1,2-Dichloroethane	ND	mg/kg	0.0027	1		12/16/09 16:29	107-06-2	M0
Diisopropyl ether	ND	mg/kg	0.0027	1		12/16/09 16:29	108-20-3	
Ethanol	ND	mg/kg	0.37	1		12/16/09 16:29	64-17-5	
Ethylbenzene	ND	mg/kg	0.0027	1		12/16/09 16:29	100-41-4	
Ethyl-tert-butyl ether	ND	mg/kg	0.0027	1		12/16/09 16:29	637-92-3	
Methyl-tert-butyl ether	ND	mg/kg	0.0027	1		12/16/09 16:29	1634-04-4	
Toluene	ND	mg/kg	0.0027	1		12/16/09 16:29	108-88-3	
Xylene (Total)	ND	mg/kg	0.0055	1		12/16/09 16:29	1330-20-7	
Dibromofluoromethane (S)	89	%	80-136	1		12/16/09 16:29	1868-53-7	
Toluene-d8 (S)	102	%	80-120	1		12/16/09 16:29	2037-26-5	
4-Bromofluorobenzene (S)	99	%	72-122	1		12/16/09 16:29	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	80-143	1		12/16/09 16:29	17060-07-0	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	mg/kg	0.23	1		12/16/09 16:29		M0
4-Bromofluorobenzene (S)	99	%	72-122	1		12/16/09 16:29	460-00-4	

Sample: SV-2@4.5_20091210 **Lab ID: 252653002** Collected: 12/10/09 14:30 Received: 12/12/09 10:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	ND	mg/kg	5.8	1	12/14/09 16:05	12/16/09 18:07		2n
o-Terphenyl (S)	102	%	50-150	1	12/14/09 16:05	12/16/09 18:07	84-15-1	2n
n-Octacosane (S)	107	%	50-150	1	12/14/09 16:05	12/16/09 18:07	630-02-4	2n
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0027	1		12/16/09 16:49	994-05-8	
Benzene	ND	mg/kg	0.0027	1		12/16/09 16:49	71-43-2	
tert-Butyl Alcohol	ND	mg/kg	0.013	1		12/16/09 16:49	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0027	1		12/16/09 16:49	106-93-4	
1,2-Dichloroethane	ND	mg/kg	0.0027	1		12/16/09 16:49	107-06-2	
Diisopropyl ether	ND	mg/kg	0.0027	1		12/16/09 16:49	108-20-3	
Ethanol	ND	mg/kg	0.36	1		12/16/09 16:49	64-17-5	

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

Sample: SV-2@4.5_20091210 **Lab ID: 252653002** Collected: 12/10/09 14:30 Received: 12/12/09 10:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Ethylbenzene	ND	mg/kg	0.0027	1		12/16/09 16:49	100-41-4	
Ethyl-tert-butyl ether	ND	mg/kg	0.0027	1		12/16/09 16:49	637-92-3	
Methyl-tert-butyl ether	ND	mg/kg	0.0027	1		12/16/09 16:49	1634-04-4	
Toluene	ND	mg/kg	0.0027	1		12/16/09 16:49	108-88-3	
Xylene (Total)	ND	mg/kg	0.0054	1		12/16/09 16:49	1330-20-7	
Dibromofluoromethane (S)	92	%	80-136	1		12/16/09 16:49	1868-53-7	
Toluene-d8 (S)	103	%	80-120	1		12/16/09 16:49	2037-26-5	
4-Bromofluorobenzene (S)	99	%	72-122	1		12/16/09 16:49	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	80-143	1		12/16/09 16:49	17060-07-0	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	mg/kg	0.22	1		12/16/09 16:49		
4-Bromofluorobenzene (S)	99	%	72-122	1		12/16/09 16:49	460-00-4	

Sample: SV-3@4.5_20091211 **Lab ID: 252653003** Collected: 12/11/09 09:25 Received: 12/12/09 10:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	ND	mg/kg	5.8	1	12/14/09 16:05	12/16/09 18:26		2n
o-Terphenyl (S)	101	%	50-150	1	12/14/09 16:05	12/16/09 18:26	84-15-1	2n
n-Octacosane (S)	107	%	50-150	1	12/14/09 16:05	12/16/09 18:26	630-02-4	2n
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0028	1		12/16/09 17:10	994-05-8	
Benzene	ND	mg/kg	0.0028	1		12/16/09 17:10	71-43-2	
tert-Butyl Alcohol	ND	mg/kg	0.014	1		12/16/09 17:10	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0028	1		12/16/09 17:10	106-93-4	
1,2-Dichloroethane	ND	mg/kg	0.0028	1		12/16/09 17:10	107-06-2	
Diisopropyl ether	ND	mg/kg	0.0028	1		12/16/09 17:10	108-20-3	
Ethanol	ND	mg/kg	0.37	1		12/16/09 17:10	64-17-5	
Ethylbenzene	ND	mg/kg	0.0028	1		12/16/09 17:10	100-41-4	
Ethyl-tert-butyl ether	ND	mg/kg	0.0028	1		12/16/09 17:10	637-92-3	
Methyl-tert-butyl ether	ND	mg/kg	0.0028	1		12/16/09 17:10	1634-04-4	
Toluene	ND	mg/kg	0.0028	1		12/16/09 17:10	108-88-3	
Xylene (Total)	ND	mg/kg	0.0055	1		12/16/09 17:10	1330-20-7	
Dibromofluoromethane (S)	91	%	80-136	1		12/16/09 17:10	1868-53-7	
Toluene-d8 (S)	103	%	80-120	1		12/16/09 17:10	2037-26-5	
4-Bromofluorobenzene (S)	100	%	72-122	1		12/16/09 17:10	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	80-143	1		12/16/09 17:10	17060-07-0	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	mg/kg	0.23	1		12/16/09 17:10		

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

Sample: SV-3@4.5_20091211 **Lab ID: 252653003** Collected: 12/11/09 09:25 Received: 12/12/09 10:30 Matrix: Solid
Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
CA LUFT MSV GRO	Analytical Method: CA LUFT							
4-Bromofluorobenzene (S)	100	%	72-122	1		12/16/09 17:10	460-00-4	

Sample: SV-4@4.5_20091211 **Lab ID: 252653004** Collected: 12/11/09 08:05 Received: 12/12/09 10:30 Matrix: Solid
Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	ND	mg/kg	6.0	1	12/14/09 16:05	12/16/09 19:23		2n
o-Terphenyl (S)	105	%	50-150	1	12/14/09 16:05	12/16/09 19:23	84-15-1	2n
n-Octacosane (S)	111	%	50-150	1	12/14/09 16:05	12/16/09 19:23	630-02-4	2n
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0028	1		12/16/09 17:30	994-05-8	
Benzene	ND	mg/kg	0.0028	1		12/16/09 17:30	71-43-2	
tert-Butyl Alcohol	ND	mg/kg	0.014	1		12/16/09 17:30	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0028	1		12/16/09 17:30	106-93-4	
1,2-Dichloroethane	ND	mg/kg	0.0028	1		12/16/09 17:30	107-06-2	
Diisopropyl ether	ND	mg/kg	0.0028	1		12/16/09 17:30	108-20-3	
Ethanol	ND	mg/kg	0.38	1		12/16/09 17:30	64-17-5	
Ethylbenzene	ND	mg/kg	0.0028	1		12/16/09 17:30	100-41-4	
Ethyl-tert-butyl ether	ND	mg/kg	0.0028	1		12/16/09 17:30	637-92-3	
Methyl-tert-butyl ether	ND	mg/kg	0.0028	1		12/16/09 17:30	1634-04-4	
Toluene	ND	mg/kg	0.0028	1		12/16/09 17:30	108-88-3	
Xylene (Total)	ND	mg/kg	0.0056	1		12/16/09 17:30	1330-20-7	
Dibromofluoromethane (S)	92	%	80-136	1		12/16/09 17:30	1868-53-7	
Toluene-d8 (S)	102	%	80-120	1		12/16/09 17:30	2037-26-5	
4-Bromofluorobenzene (S)	99	%	72-122	1		12/16/09 17:30	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	80-143	1		12/16/09 17:30	17060-07-0	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	mg/kg	0.24	1		12/16/09 17:30		
4-Bromofluorobenzene (S)	99	%	72-122	1		12/16/09 17:30	460-00-4	

Sample: SV-5@4.5_20091210 **Lab ID: 252653005** Collected: 12/10/09 14:05 Received: 12/12/09 10:30 Matrix: Solid
Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	**50.9**	mg/kg	6.0	1	12/14/09 16:05	12/16/09 19:42		2n
o-Terphenyl (S)	90	%	50-150	1	12/14/09 16:05	12/16/09 19:42	84-15-1	2n
n-Octacosane (S)	97	%	50-150	1	12/14/09 16:05	12/16/09 19:42	630-02-4	2n

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

Sample: SV-5@4.5_20091210 **Lab ID: 252653005** Collected: 12/10/09 14:05 Received: 12/12/09 10:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0029	1		12/17/09 11:55	994-05-8	M0
Benzene	ND	mg/kg	0.0029	1		12/17/09 11:55	71-43-2	
tert-Butyl Alcohol	**0.032**	mg/kg	0.014	1		12/17/09 11:55	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0029	1		12/17/09 11:55	106-93-4	M0
1,2-Dichloroethane	ND	mg/kg	0.0029	1		12/17/09 11:55	107-06-2	M0
Diisopropyl ether	ND	mg/kg	0.0029	1		12/17/09 11:55	108-20-3	
Ethanol	ND	mg/kg	0.38	1		12/17/09 11:55	64-17-5	
Ethylbenzene	ND	mg/kg	0.0029	1		12/17/09 11:55	100-41-4	M0
Ethyl-tert-butyl ether	ND	mg/kg	0.0029	1		12/17/09 11:55	637-92-3	M0
Methyl-tert-butyl ether	**0.022**	mg/kg	0.0029	1		12/17/09 11:55	1634-04-4	M0
Toluene	ND	mg/kg	0.0029	1		12/17/09 11:55	108-88-3	
Xylene (Total)	ND	mg/kg	0.0058	1		12/17/09 11:55	1330-20-7	M0
Dibromofluoromethane (S)	93	%	80-136	1		12/17/09 11:55	1868-53-7	
Toluene-d8 (S)	99	%	80-120	1		12/17/09 11:55	2037-26-5	
4-Bromofluorobenzene (S)	102	%	72-122	1		12/17/09 11:55	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-143	1		12/17/09 11:55	17060-07-0	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	mg/kg	0.24	1		12/17/09 11:55		
4-Bromofluorobenzene (S)	102	%	72-122	1		12/17/09 11:55	460-00-4	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

QC Batch: OEXT/1735 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B CA TPH
Associated Lab Samples: 252653001, 252653002, 252653003, 252653004, 252653005

METHOD BLANK: 17270 Matrix: Solid
Associated Lab Samples: 252653001, 252653002, 252653003, 252653004, 252653005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C24)	mg/kg	ND	6.0	12/16/09 17:09	2n
n-Octacosane (S)	%	108	50-150	12/16/09 17:09	2n
o-Terphenyl (S)	%	103	50-150	12/16/09 17:09	2n

LABORATORY CONTROL SAMPLE: 17271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C24)	mg/kg	250	212	85	56-124	2n
n-Octacosane (S)	%			108	50-150	2n
o-Terphenyl (S)	%			95	50-150	2n

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17274 17275

Parameter	Units	252653003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-DRO (C10-C24)	mg/kg	ND	231	248	191	201	82	80	56-124	5	2n
n-Octacosane (S)	%						105	104	50-150		2n
o-Terphenyl (S)	%						93	92	50-150		2n

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

QC Batch: MSV/1794 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 252653001, 252653002, 252653003, 252653004

METHOD BLANK: 17395 Matrix: Solid
Associated Lab Samples: 252653001, 252653002, 252653003, 252653004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0030	12/16/09 11:14	
1,2-Dichloroethane	mg/kg	ND	0.0030	12/16/09 11:14	
Benzene	mg/kg	ND	0.0030	12/16/09 11:14	
Diisopropyl ether	mg/kg	ND	0.0030	12/16/09 11:14	
Ethanol	mg/kg	ND	0.40	12/16/09 11:14	
Ethyl-tert-butyl ether	mg/kg	ND	0.0030	12/16/09 11:14	
Ethylbenzene	mg/kg	ND	0.0030	12/16/09 11:14	
Methyl-tert-butyl ether	mg/kg	ND	0.0030	12/16/09 11:14	
tert-Amylmethyl ether	mg/kg	ND	0.0030	12/16/09 11:14	
tert-Butyl Alcohol	mg/kg	ND	0.015	12/16/09 11:14	
Toluene	mg/kg	ND	0.0030	12/16/09 11:14	
Xylene (Total)	mg/kg	ND	0.0060	12/16/09 11:14	
1,2-Dichloroethane-d4 (S)	%	87	80-143	12/16/09 11:14	
4-Bromofluorobenzene (S)	%	97	72-122	12/16/09 11:14	
Dibromofluoromethane (S)	%	91	80-136	12/16/09 11:14	
Toluene-d8 (S)	%	100	80-120	12/16/09 11:14	

LABORATORY CONTROL SAMPLE: 17396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	mg/kg	.04	0.041	103	71-123	
1,2-Dichloroethane	mg/kg	.04	0.038	96	71-124	
Benzene	mg/kg	.04	0.045	114	68-124	
Diisopropyl ether	mg/kg	.04	0.042	106	20-160	
Ethanol	mg/kg	.8	0.67	84	60-140	
Ethyl-tert-butyl ether	mg/kg	.04	0.044	110	70-140	
Ethylbenzene	mg/kg	.04	0.042	105	63-131	
Methyl-tert-butyl ether	mg/kg	.04	0.040	100	68-139	
tert-Amylmethyl ether	mg/kg	.04	0.045	112	74-125	
tert-Butyl Alcohol	mg/kg	.2	0.20	100	49-122	
Toluene	mg/kg	.04	0.041	103	61-126	
Xylene (Total)	mg/kg	.12	0.13	108	68-129	
1,2-Dichloroethane-d4 (S)	%			87	80-143	
4-Bromofluorobenzene (S)	%			96	72-122	
Dibromofluoromethane (S)	%			100	80-136	
Toluene-d8 (S)	%			91	80-120	

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17532 17533

Parameter	Units	252653001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	mg/kg	ND	.038	.043	0.027	0.033	71	77	71-123	20	
1,2-Dichloroethane	mg/kg	ND	.038	.043	0.026	0.031	67	73	71-124	19	M0
Benzene	mg/kg	ND	.038	.043	0.029	0.035	75	81	68-124	19	
Diisopropyl ether	mg/kg	ND	.038	.043	0.027	0.033	72	77	20-160	18	
Ethanol	mg/kg	ND	.76	.86	0.48	0.63	62	74	60-140	28	
Ethyl-tert-butyl ether	mg/kg	ND	.038	.043	0.027	0.033	72	78	70-140	19	
Ethylbenzene	mg/kg	ND	.038	.043	0.026	0.031	69	73	63-131	16	
Methyl-tert-butyl ether	mg/kg	ND	.038	.043	0.027	0.032	71	75	68-139	17	
tert-Amylmethyl ether	mg/kg	ND	.038	.043	0.029	0.035	76	82	74-125	19	
tert-Butyl Alcohol	mg/kg	ND	.19	.21	0.14	0.17	73	81	49-122	22	
Toluene	mg/kg	ND	.038	.043	0.026	0.031	68	72	61-126	17	
Xylene (Total)	mg/kg	ND	.11	.13	0.082	0.097	71	75	68-129	17	
1,2-Dichloroethane-d4 (S)	%						95	92	80-143		
4-Bromofluorobenzene (S)	%						93	98	72-122		
Dibromofluoromethane (S)	%						99	99	80-136		
Toluene-d8 (S)	%						94	93	80-120		

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

QC Batch: MSV/1795
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 252653005

METHOD BLANK: 17443
Matrix: Solid
Associated Lab Samples: 252653005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0030	12/17/09 11:19	
1,2-Dichloroethane	mg/kg	ND	0.0030	12/17/09 11:19	
Benzene	mg/kg	ND	0.0030	12/17/09 11:19	
Diisopropyl ether	mg/kg	ND	0.0030	12/17/09 11:19	
Ethanol	mg/kg	ND	0.40	12/17/09 11:19	
Ethyl-tert-butyl ether	mg/kg	ND	0.0030	12/17/09 11:19	
Ethylbenzene	mg/kg	ND	0.0030	12/17/09 11:19	
Methyl-tert-butyl ether	mg/kg	ND	0.0030	12/17/09 11:19	
tert-Amylmethyl ether	mg/kg	ND	0.0030	12/17/09 11:19	
tert-Butyl Alcohol	mg/kg	ND	0.015	12/17/09 11:19	
Toluene	mg/kg	ND	0.0030	12/17/09 11:19	
Xylene (Total)	mg/kg	ND	0.0060	12/17/09 11:19	
1,2-Dichloroethane-d4 (S)	%	90	80-143	12/17/09 11:19	
4-Bromofluorobenzene (S)	%	99	72-122	12/17/09 11:19	
Dibromofluoromethane (S)	%	89	80-136	12/17/09 11:19	
Toluene-d8 (S)	%	103	80-120	12/17/09 11:19	

LABORATORY CONTROL SAMPLE: 17444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	mg/kg	.04	0.038	96	71-123	
1,2-Dichloroethane	mg/kg	.04	0.037	93	71-124	
Benzene	mg/kg	.04	0.043	107	68-124	
Diisopropyl ether	mg/kg	.04	0.040	100	20-160	
Ethanol	mg/kg	.8	0.72	90	60-140	
Ethyl-tert-butyl ether	mg/kg	.04	0.040	99	70-140	
Ethylbenzene	mg/kg	.04	0.040	101	63-131	
Methyl-tert-butyl ether	mg/kg	.04	0.037	93	68-139	
tert-Amylmethyl ether	mg/kg	.04	0.041	103	74-125	
tert-Butyl Alcohol	mg/kg	.2	0.18	88	49-122	
Toluene	mg/kg	.04	0.039	98	61-126	
Xylene (Total)	mg/kg	.12	0.13	105	68-129	
1,2-Dichloroethane-d4 (S)	%			93	80-143	
4-Bromofluorobenzene (S)	%			93	72-122	
Dibromofluoromethane (S)	%			101	80-136	
Toluene-d8 (S)	%			92	80-120	

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17445 17446

Parameter	Units	252653005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	mg/kg	ND	.04	.04	0.028	0.025	71	64	71-123	11	M0
1,2-Dichloroethane	mg/kg	ND	.04	.04	0.027	0.025	69	63	71-124	10	M0
Benzene	mg/kg	ND	.04	.04	0.032	0.029	81	74	68-124	10	
Diisopropyl ether	mg/kg	ND	.04	.04	0.031	0.028	78	71	20-160	9	
Ethanol	mg/kg	ND	.8	.8	0.69	0.66	86	83	60-140	5	
Ethyl-tert-butyl ether	mg/kg	ND	.04	.04	0.030	0.027	76	69	70-140	10	M0
Ethylbenzene	mg/kg	ND	.04	.04	0.027	0.023	67	57	63-131	16	M0
Methyl-tert-butyl ether	mg/kg	0.022	.04	.04	0.041	0.039	49	44	68-139	5	M0
tert-Amylmethyl ether	mg/kg	ND	.04	.04	0.032	0.029	79	72	74-125	9	M0
tert-Butyl Alcohol	mg/kg	0.032	.2	.2	0.16	0.16	63	66	49-122	4	
Toluene	mg/kg	ND	.04	.04	0.029	0.026	71	64	61-126	11	
Xylene (Total)	mg/kg	ND	.12	.12	0.081	0.069	68	58	68-129	16	M0
1,2-Dichloroethane-d4 (S)	%						93	93	80-143		
4-Bromofluorobenzene (S)	%						98	101	72-122		
Dibromofluoromethane (S)	%						100	98	80-136		
Toluene-d8 (S)	%						96	97	80-120		

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

QC Batch: MSV/1797 Analysis Method: CA LUFT
QC Batch Method: CA LUFT Analysis Description: CA LUFT MSV GRO
Associated Lab Samples: 252653001, 252653002, 252653003, 252653004

METHOD BLANK: 17519 Matrix: Solid
Associated Lab Samples: 252653001, 252653002, 252653003, 252653004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	mg/kg	ND	0.25	12/16/09 11:14	
4-Bromofluorobenzene (S)	%	97	72-122	12/16/09 11:14	

LABORATORY CONTROL SAMPLE: 17520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	mg/kg	.5	0.46	91	60-140	
4-Bromofluorobenzene (S)	%			101	72-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17521 17522

Parameter	Units	252653001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	mg/kg	ND	.48	.44	3.1	2.7	644	605	60-140	14	1n,IS
4-Bromofluorobenzene (S)	%						100	99	72-122		

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

QC Batch: MSV/1802
QC Batch Method: CA LUFT
Analysis Method: CA LUFT
Analysis Description: CA LUFT MSV GRO
Associated Lab Samples: 252653005

METHOD BLANK: 17687
Matrix: Solid
Associated Lab Samples: 252653005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	mg/kg	ND	0.25	12/17/09 11:19	
4-Bromofluorobenzene (S)	%	99	72-122	12/17/09 11:19	

LABORATORY CONTROL SAMPLE: 17688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	mg/kg	.5	0.44	88	60-140	
4-Bromofluorobenzene (S)	%			104	72-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17689 17690

Parameter	Units	252653005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	mg/kg	ND	.2	.2	.18J	.2J	68	75	60-140		
4-Bromofluorobenzene (S)	%						106	107	72-122		

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALIFIERS

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-S	Pace Analytical Services - Seattle

ANALYTE QUALIFIERS

1n	Matrix spike recovery and/or matrix spike duplicate recovery exceeded laboratory control limits due to low internal standard areas.
2n	Result was obtained from silica gel treated extract.
IS	The internal standard response is below criteria. Results may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252653

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
252653001	SV-1@ 4.5 _20021210	EPA 3546	OEXT/1735	EPA 8015B	GCSV/1382
252653002	SV-2@4.5_20091210	EPA 3546	OEXT/1735	EPA 8015B	GCSV/1382
252653003	SV-3@4.5_20091211	EPA 3546	OEXT/1735	EPA 8015B	GCSV/1382
252653004	SV-4@4.5_20091211	EPA 3546	OEXT/1735	EPA 8015B	GCSV/1382
252653005	SV-5@4.5_20091210	EPA 3546	OEXT/1735	EPA 8015B	GCSV/1382
252653001	SV-1@ 4.5 _20021210	EPA 8260	MSV/1794		
252653002	SV-2@4.5_20091210	EPA 8260	MSV/1794		
252653003	SV-3@4.5_20091211	EPA 8260	MSV/1794		
252653004	SV-4@4.5_20091211	EPA 8260	MSV/1794		
252653005	SV-5@4.5_20091210	EPA 8260	MSV/1795		
252653001	SV-1@ 4.5 _20021210	CA LUFT	MSV/1797		
252653002	SV-2@4.5_20091210	CA LUFT	MSV/1797		
252653003	SV-3@4.5_20091211	CA LUFT	MSV/1797		
252653004	SV-4@4.5_20091211	CA LUFT	MSV/1797		
252653005	SV-5@4.5_20091210	CA LUFT	MSV/1802		

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Delta Consultants	Report To:	tperini@deltaenv.com	Attention:	Tony Perini
Address:	312 Piercy Rd	Copy To:	shayes@deltaenv.com,	Company Name:	Delta Consultants
	San Jose, CA 95138		jdumas@deltaenv.com *	Address:	312 Piercy Rd, San Jose, CA 95138
Email To:	tperini@deltaenv.com	Purchase Order No.	142611270 3255 McCartney Rd	Pace Quote Reference:	
Phone:	408.826.1867 Fax:	Client Project ID:	142611270	Pace Project Manager:	Regina SteMarie
Requested Due Date/TAT:	Std	Container Order Number:		Pace Profile #:	31780, 1

Regulatory Agency: —

State / Location: California

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8015m - TPHd Extractable (silica gel cleanup)	8260B - TPHg/BTEX/MBE	Sulfate	Nitrate	Total Iron	Ferric Iron	Ferrous Iron	8260B - TPHg / BTEX / 8 Oxygenates			Residual Chlorine (Y/N)	Requested Analysis Filtered (Y/N)
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																	Y/N		N	N	N	N	N	N					
1	SV-1 @ 4.5 - 20091210* RSL 12/14/09	SL	G	12/10/09	14:55				1										X						X				25216.53-001	
2	SV-2 @ 4.5 - 20091210	SL	G	12/10/09	14:30				1										X						X				-002	
3	SV-3 @ 4.5 - 20091211	SL	G	12/10/09	9:25				1										X						X				-003	
4	SV-4 @ 4.5 - 20091211	SL	G	12/10/09	8:05				1										X						X				-004	
5	SV-5 @ 4.5 - 20091210	SL	G	12/10/09	14:05				1										X						X				-005	
6																														
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Global ID: T0607500430				Chassity / Pace	12/12/09	1030	1.9	Y	Y	Y
* Project ID & Sample IDs edited to match Delta naming conventions. RSL 12/14/09										

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Joe Dumas		
SIGNATURE of SAMPLER:	Joe Dumas	DATE Signed:	12-11-09

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Sample Condition Upon Receipt

Pace Analytical

Client Name: DeHa Consultants

Project # 252653

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Optional: Proj. Due Date: Proj. Name:

Tracking #: 853125016 9801

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals Intact: ☑ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used: Horiba 132013 Type of Ice: (Wet) Blue None ☐ Samples on Ice, cooling process has begun

Cooler Temperature: 1.9 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 12/12/09 AR

				Comments
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☐Yes	☑No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9. Samples received in Sleeves - transfered to 8oz jars in lab.
-Pace Containers Used:	☐Yes	☑No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: Soil				
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes	☐No	☐N/A	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☑No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

January 28, 2010

Mr. Tony Perini
Delta Consultants
312 Piercy Road
San Jose, CA 95138

RE: Project: 2611270 Alameda SoilGas Survey
Pace Project No.: 10121316

Dear Mr. Perini:
Enclosed are the analytical results for sample(s) received by the laboratory on January 14, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Colin Schuft

Colin Schuft

colin.schuft@pacelabs.com
Project Manager

Enclosures

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 2611270 Alameda SoilGas Survey
Pace Project No.: 10121316

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10121316001	SV-1	Air	01/08/10 10:24	01/14/10 10:55
10121316002	SV-2	Air	01/08/10 09:38	01/14/10 10:55
10121316003	SV-3	Air	01/08/10 09:14	01/14/10 10:55
10121316004	SV-4	Air	01/08/10 08:45	01/14/10 10:55
10121316005	SV-5	Air	01/08/10 10:45	01/14/10 10:55

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project:
Pace Project No.:

Method:
Description:
Client:
Date:

This data package has been reviewed for quality and completeness and is approved for release.

AIR TECHNOLOGY
Laboratories, Inc.

February 10, 2010

FL Cert #E87847/LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C
RSK-175
TX Cert #T104704450-09-TX
EPA Methods TO14A,TO15

Pace Analytical
ATTN: Colin Schuft
1700 Elm St. SE, Suite 200
Minneapolis, MN 55414

LABORATORY TEST RESULTS

Project Reference: 2611270; Alameda Soil Gas Survey
Lab Number: B011401-01/05

Enclosed are **revised** results for sample(s) received 1/14/10 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Report revised to include results for TO15 reported in ug/m^3, per client's request.
- Sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- All results are reported without qualifications.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Client: Pace Analytical
Attn: Colin Schuft

Client's Project: 2611270
Date Received: 01/14/10
Matrix: Air
Units: ppbv

EPA Method TO15

Lab No:		B011401-01		B011401-02		B011401-03		B011401-04		B011401-05	
Client Sample I.D.:		SV-1		SV-2		SV-3		SV-4		SV-5	
Date Sampled:		01/08/10		01/08/10		01/08/10		01/08/10		01/08/10	
Date Analyzed:		01/26/10		01/26/10		01/26/10		01/26/10		01/26/10	
QC Batch No:		100126MS2A1		100126MS2A1		100126MS2A1		100126MS2A1		100126MS2A1	
Analyst Initials:		MJJ		MJJ		MJJ		MJJ		MJJ	
Dilution Factor:		2.3		2.0		1.9		1.8		2.0	
ANALYTE	PQL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
t-Butyl Methyl Ether (MTBE)	1.0	ND	2.3	17	2.0	ND	1.9	25	1.8	1,300	2.0
Benzene	1.0	3.1	2.3	10	2.0	3.7	1.9	3.9	1.8	4.4	2.0
1,2-Dichloroethane	1.0	ND	2.3	ND	2.0	ND	1.9	ND	1.8	ND	2.0
Toluene	1.0	11	2.3	16	2.0	13	1.9	14	1.8	12	2.0
1,2-Dibromoethane	1.0	ND	2.3	ND	2.0	ND	1.9	ND	1.8	ND	2.0
Ethylbenzene	4.3	ND	9.7	ND	8.7	ND	8.0	ND	7.7	ND	8.5
p,&m-Xylene	4.3	ND	9.7	ND	8.7	ND	8.0	8.2	7.7	ND	8.5
o-Xylene	4.3	ND	9.7	10	8.7	11	8.0	12	7.7	13	8.5
Ethanol	5.0	ND	11	ND	10	ND	9.4	ND	9.0	ND	9.9
Isopropanol	5.0	480	11	24	10	ND	9.4	2,500	9.0	1,500	9.9
t-Butanol	5.0	ND	11	ND	10	ND	9.4	ND	9.0	ND	9.9
Isopropyl ether	5.0	ND	11	ND	10	ND	9.4	ND	9.0	ND	9.9
t-Butyl ethyl ether	5.0	ND	11	ND	10	ND	9.4	ND	9.0	ND	9.9
t-Amyl methyl ether	5.0	ND	11	ND	10	ND	9.4	ND	9.0	ND	9.9
TPH as Gasoline	100	ND	230	350	200	ND	190	8,700	180	3,900	200

PQL = Practical Quantitation Limit
ND= Not Detected (below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date 1/28/10
Mayir Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: Pace Analytical
Attn: Colin Schuft

Client's Project: 2611270
Date Received: 01/14/10
Matrix: Air
Units: ug/m3

EPA Method TO15

Lab No:		B011401-01		B011401-02		B011401-03		B011401-04		B011401-05	
Client Sample I.D.:		SV-1		SV-2		SV-3		SV-4		SV-5	
Date Sampled:		01/08/10		01/08/10		01/08/10		01/08/10		01/08/10	
Date Analyzed:		01/26/10		01/26/10		01/26/10		01/26/10		01/26/10	
QC Batch No:		100126MS2A1		100126MS2A1		100126MS2A1		100126MS2A1		100126MS2A1	
Analyst Initials:		MJJ		MJJ		MJJ		MJJ		MJJ	
Dilution Factor:		2.3		2.0		1.9		1.8		2.0	
ANALYTE	PQL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
t-Butyl Methyl Ether (MTBE)	3.6	ND	8.1	60	7.3	ND	6.7	92	6.5	4,700	7.1
Benzene	3.2	9.9	7.2	33	6.5	12	6.0	13	5.8	14	6.3
1,2-Dichloroethane	4.0	ND	9.0	ND	8.1	ND	7.5	ND	7.2	ND	7.9
Toluene	3.8	40	8.6	60	7.7	49	7.1	54	6.8	45	7.5
1,2-Dibromoethane	7.7	ND	17	ND	16	ND	14	ND	14	ND	15
Ethylbenzene	4.3	ND	9.7	ND	8.7	ND	8.0	ND	7.7	ND	8.5
p,&m-Xylene	4.3	ND	9.7	ND	8.7	ND	8.0	8.2	7.7	ND	8.5
o-Xylene	4.3	ND	9.7	10	8.7	11	8.0	12	7.7	13	8.5
Ethanol	9.4	ND	21	ND	19	ND	18	ND	17	ND	19
Isopropanol	12	1,200	27	60	24	ND	22	6,200	22	3,800	24
t-Butanol	15	ND	34	ND	30	ND	28	ND	27	ND	30
Isopropyl ether	21	ND	47	ND	42	ND	39	ND	38	ND	42
t-Butyl ethyl ether	21	ND	47	ND	42	ND	39	ND	38	ND	42
t-Amyl methyl ether	21	ND	47	ND	42	ND	39	ND	38	ND	42
TPH as Gasoline	410	ND	920	1,400	830	ND	770	35,000	740	16,000	810

PQL = Practical Quantitation Limit
ND= Not Detected (below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ **Date** 1/28/10
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch #: 100126MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	01/26/10		01/26/10		01/26/10						
Data File ID:	26JAN007.D		26JAN004.D		26JAN005.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.5	105	9.9	99	5.8	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.2	102	9.8	98	3.6	70	130	30	Pass
Trichloroethene	0.0	10.0	10.1	101	9.8	98	3.0	70	130	30	Pass
Toluene	0.8	10.0	10.2	94	9.9	91	2.5	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	10.3	103	10.1	101	1.5	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 2/10/10

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 100127MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	01/27/10		01/27/10		01/27/10						
Data File ID:	27JAN007.D		27JAN004.D		27JAN005.D						
Analyst Initials:	DT		DT		DT						
Dilution Factor:	0.2		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.0	100	9.6	96	4.3	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.2	102	9.9	99	3.1	70	130	30	Pass
Trichloroethene	0.0	10.0	9.9	99	9.3	93	6.3	70	130	30	Pass
Toluene	0.0	10.0	9.8	98	9.3	93	4.8	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	10.2	102	9.8	98	3.9	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 2/10/10

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: **Pace Analytical**
Attn: **Colin Schuft**

Client's Project: 2611270
Date Received: 1/14/2010
Matrix: Air
Units: % v/v

Fixed Gases by EPA Method 3C

Lab No.:		B0111401-01		B0111401-02		B0111401-03		B0111401-04		B0111401-05	
Client Sample I.D.:		SV-1		SV-2		SV-3		SV-4		SV-5	
Date Sampled:		1/8/2010		1/8/2010		1/8/2010		1/8/2010		1/8/2010	
Date Analyzed:		1/19/2010		1/19/2010		1/25/2010		1/19/2010		1/19/2010	
Analyst Initials:		ZK		ZK		ZK		ZK		ZK	
Data File:		19jan024 / 025		19jan026 / 027		25jan009 / 010 / 011		19jan031 / 032		19jan034 / 035	
QC Batch:		100119GC8A1		100119GC8A1		100125GC8A1		100119GC8A1		100119GC8A1	
Dilution Factor:		2.2		2.0		1.9		1.8		2.0	
ANALYTE	PQL	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results
Oxygen/Argon	0.50	1.1	16	1.0	1.6	0.94	12	0.90	2.9	0.99	5.1
Nitrogen	1.0	2.2	82	2.0	35	1.9	78	1.8	87	2.0	76
Methane	0.0010	0.0022	ND	0.0020	55	0.0019	ND	0.0018	0.89	0.0020	10
Carbon Dioxide	0.010	0.022	4.0	0.020	10	0.019	8.6	0.018	9.3	0.020	9.0
Carbon Monoxide	0.001	0.0022	ND	0.0020	ND	0.0019	ND	0.0018	ND	0.0020	ND

PQL = Practical Quantitation Limit
ND = Not Detected (Below PQL)
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date: 2/10/10
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report

QC Batch No.: 100119GC8A1
Matrix: Air
Units: % v/v

QC for Fixed Gases by EPA Method 3C

Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		01/19/10		01/19/10		01/19/10			
Analyst Initials:		ZK		ZK		ZK			
Datafile:		19jan005		19jan002		29jul002			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Oxygen/Argon	0.50	0.50	ND	105	70-130%	100	70-130%	4.6	<30
Nitrogen	1.0	1.0	ND	102	70-130%	100	70-130%	2.0	<30
Methane	0.0010	0.0010	ND	102	70-130%	102	70-130%	0.2	<30
Carbon Dioxide	0.010	0.010	ND	98	70-130%	101	70-130%	2.7	<30
Carbon Monoxide	0.0010	0.0010	ND	97	70-130%	97	70-130%	0.0	<30

PQL = Pratical Quantitation Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date: 2/10/10
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report.

QC Batch No.: 100125GC8A1
Matrix: Air
Units: % v/v

QC for Fixed Gases by EPA Method 3C

Lab No.:		Method Blank		LCS		LCSD			
Date Analyzed:		01/25/10		01/25/10		01/25/10			
Analyst Initials:		ZK		ZK		ZK			
Datafile:		25jan008		25jan006		25jan007			
Dilution Factor:		1.0		1.0		1.0			
ANALYTE	PQL	RL	Results	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Oxygen/Argon	0.50	0.50	ND	107	70-130%	98	70-130%	8.8	<30
Nitrogen	1.0	1.0	ND	103	70-130%	99	70-130%	4.0	<30
Methane	0.0010	0.0010	ND	103	70-130%	100	70-130%	2.8	<30
Carbon Dioxide	0.010	0.010	ND	95	70-130%	107	70-130%	11.4	<30
Carbon Monoxide	0.0010	0.0010	ND	96	70-130%	95	70-130%	0.3	<30

PQL = Pratical Quantitation Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date: 2/12/10
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

December 23, 2009

Tony Perini
ELT_Delta Consultants San Jose
312 Percy Rd.
San Jose, CA 95138

RE: Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252654

Dear Tony Perini:
Enclosed are the analytical results for sample(s) received by the laboratory on December 12, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Regina Ste. Marie

Regina SteMarie

regina.stemarie@pacelabs.com
Project Manager

Enclosures

cc: Tara Bosch, ELT_Delta Consultants Sacramento
Dennis Dettloff, ELT_Delta Consultants Sacramen
Jonathon Fillingame, ELT_Delta Consultants Sacramento
Meghann Hurt, ELT_Delta Consultants Sacramento
Josh Mahoney, ELT_Delta Consultants San Jose
Don Pinkerton, ELT_Delta Consultants Sacramento
David Sowle, ELT_Delta Consultants Sacramento
Doug Umland, ELT_Delta Consultants San Jose
Ed Weyrens, ELT_Delta Consultants San Jose

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

CERTIFICATIONS

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252654

Washington Certification IDs
940 South Harney Street Seattle, WA 98108
Washington Certification #: C1229
Oregon Certification #: WA200007
Alaska CS Certification #: UST-025
California Certification #: 01153CA
Alaska Drinking Water Micro Certification #: WA01230
Alaska Drinking Water VOC Certification #: WA01-09
Florida/NELAP Certification #: E87617

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

SAMPLE ANALYTE COUNT

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252654

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
252654001	**COMP-ABCD_20091211**	EPA 8015B	DMT	3	PASI-S
		EPA 6010	BGA	1	PASI-S
		EPA 8260	LPM	16	PASI-S
		CA LUFT	LNH	2	PASI-S

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

PROJECT NARRATIVE

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252654

Method: **EPA 8015B**
Description: 8015B CA Diesel Range Organics
Client: ELT_Delta San Jose, CA
Date: December 23, 2009

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/1735

1n: Result was obtained from silica gel treated extract.

- BLANK (Lab ID: 17270)
  - TPH-DRO (C10-C24)
  - n-Octacosane (S)
  - o-Terphenyl (S)
- COMP-ABCD_20091211 (Lab ID: 252654001)
  - TPH-DRO (C10-C24)
  - n-Octacosane (S)
  - o-Terphenyl (S)

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

PROJECT NARRATIVE

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252654

Method: **EPA 8015B**
Description: 8015B CA Diesel Range Organics
Client: ELT_Delta San Jose, CA
Date: December 23, 2009

Analyte Comments:

QC Batch: OEXT/1735

1n: Result was obtained from silica gel treated extract.

- LCS (Lab ID: 17271)
  - TPH-DRO (C10-C24)
  - n-Octacosane (S)
  - o-Terphenyl (S)
- MS (Lab ID: 17274)
  - TPH-DRO (C10-C24)
  - n-Octacosane (S)
  - o-Terphenyl (S)
- MSD (Lab ID: 17275)
  - TPH-DRO (C10-C24)
  - n-Octacosane (S)
  - o-Terphenyl (S)

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

PROJECT NARRATIVE

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252654

Method: **EPA 6010**
Description: 6010 MET ICP
Client: ELT_Delta San Jose, CA
Date: December 23, 2009

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

PROJECT NARRATIVE

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252654

Method: EPA 8260
Description: 8260/5035A Volatile Organics
Client: ELT_Delta San Jose, CA
Date: December 23, 2009

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/1795

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 252653005

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 17445)
  - 1,2-Dichloroethane
  - Methyl-tert-butyl ether
- MSD (Lab ID: 17446)
  - 1,2-Dibromoethane (EDB)
  - 1,2-Dichloroethane
  - Ethyl-tert-butyl ether
  - Ethylbenzene
  - Methyl-tert-butyl ether
  - Xylene (Total)
  - tert-Amylmethyl ether

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

PROJECT NARRATIVE

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252654

Method: **EPA 8260**
Description: 8260/5035A Volatile Organics
Client: ELT_Delta San Jose, CA
Date: December 23, 2009

Additional Comments:

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

PROJECT NARRATIVE

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252654

Method: **CA LUFT**
Description: CA LUFT MSV GRO
Client: ELT_Delta San Jose, CA
Date: December 23, 2009

General Information:
1 sample was analyzed for CA LUFT. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252654

Sample: COMP-ABCD_20091211 **Lab ID: 252654001** Collected: 12/11/09 09:25 Received: 12/12/09 10:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B CA Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3546							
TPH-DRO (C10-C24)	ND	mg/kg	5.9	1	12/14/09 16:05	12/16/09 20:02		1n
o-Terphenyl (S)	97	%	50-150	1	12/14/09 16:05	12/16/09 20:02	84-15-1	1n
n-Octacosane (S)	103	%	50-150	1	12/14/09 16:05	12/16/09 20:02	630-02-4	1n
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	**9.9**	mg/kg	0.99	**1**	12/15/09 08:23	12/16/09 11:25	7439-92-1	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
tert-Amylmethyl ether	ND	mg/kg	0.0030	1		12/17/09 12:16	994-05-8	
Benzene	ND	mg/kg	0.0030	1		12/17/09 12:16	71-43-2	
tert-Butyl Alcohol	ND	mg/kg	0.015	1		12/17/09 12:16	75-65-0	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.0030	1		12/17/09 12:16	106-93-4	
1,2-Dichloroethane	ND	mg/kg	0.0030	1		12/17/09 12:16	107-06-2	
Diisopropyl ether	ND	mg/kg	0.0030	1		12/17/09 12:16	108-20-3	
Ethanol	ND	mg/kg	0.39	1		12/17/09 12:16	64-17-5	
Ethylbenzene	ND	mg/kg	0.0030	1		12/17/09 12:16	100-41-4	
Ethyl-tert-butyl ether	ND	mg/kg	0.0030	1		12/17/09 12:16	637-92-3	
Methyl-tert-butyl ether	ND	mg/kg	0.0030	1		12/17/09 12:16	1634-04-4	
Toluene	ND	mg/kg	0.0030	1		12/17/09 12:16	108-88-3	
Xylene (Total)	ND	mg/kg	0.0059	1		12/17/09 12:16	1330-20-7	
Dibromofluoromethane (S)	94	%	80-136	1		12/17/09 12:16	1868-53-7	
Toluene-d8 (S)	102	%	80-120	1		12/17/09 12:16	2037-26-5	
4-Bromofluorobenzene (S)	99	%	72-122	1		12/17/09 12:16	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	80-143	1		12/17/09 12:16	17060-07-0	
CA LUFT MSV GRO	Analytical Method: CA LUFT							
TPH-Gasoline (C05-C12)	ND	mg/kg	0.25	1		12/17/09 12:16		
4-Bromofluorobenzene (S)	99	%	72-122	1		12/17/09 12:16	460-00-4	

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252654

QC Batch: OEXT/1735
QC Batch Method: EPA 3546
Analysis Method: EPA 8015B
Analysis Description: EPA 8015B CA TPH
Associated Lab Samples: 252654001

METHOD BLANK: 17270 Matrix: Solid
Associated Lab Samples: 252654001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C24)	mg/kg	ND	6.0	12/16/09 17:09	1n
n-Octacosane (S)	%	108	50-150	12/16/09 17:09	1n
o-Terphenyl (S)	%	103	50-150	12/16/09 17:09	1n

LABORATORY CONTROL SAMPLE: 17271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C24)	mg/kg	250	212	85	56-124	1n
n-Octacosane (S)	%			108	50-150	1n
o-Terphenyl (S)	%			95	50-150	1n

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17274 17275

Parameter	Units	252653003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-DRO (C10-C24)	mg/kg	ND	231	248	191	201	82	80	56-124	5	1n
n-Octacosane (S)	%						105	104	50-150		1n
o-Terphenyl (S)	%						93	92	50-150		1n

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252654

QC Batch: MPRP/1382
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 252654001

METHOD BLANK: 17287 Matrix: Solid
Associated Lab Samples: 252654001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	12/16/09 11:04	

LABORATORY CONTROL SAMPLE: 17288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	25	22.6	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17289 17290

Parameter	Units	252655001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	mg/kg	10.4	24.5	24	33.2	33.9	93	97	75-125	2	

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252654

QC Batch: MSV/1795
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 252654001

METHOD BLANK: 17443
Matrix: Solid
Associated Lab Samples: 252654001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	mg/kg	ND	0.0030	12/17/09 11:19	
1,2-Dichloroethane	mg/kg	ND	0.0030	12/17/09 11:19	
Benzene	mg/kg	ND	0.0030	12/17/09 11:19	
Diisopropyl ether	mg/kg	ND	0.0030	12/17/09 11:19	
Ethanol	mg/kg	ND	0.40	12/17/09 11:19	
Ethyl-tert-butyl ether	mg/kg	ND	0.0030	12/17/09 11:19	
Ethylbenzene	mg/kg	ND	0.0030	12/17/09 11:19	
Methyl-tert-butyl ether	mg/kg	ND	0.0030	12/17/09 11:19	
tert-Amylmethyl ether	mg/kg	ND	0.0030	12/17/09 11:19	
tert-Butyl Alcohol	mg/kg	ND	0.015	12/17/09 11:19	
Toluene	mg/kg	ND	0.0030	12/17/09 11:19	
Xylene (Total)	mg/kg	ND	0.0060	12/17/09 11:19	
1,2-Dichloroethane-d4 (S)	%	90	80-143	12/17/09 11:19	
4-Bromofluorobenzene (S)	%	99	72-122	12/17/09 11:19	
Dibromofluoromethane (S)	%	89	80-136	12/17/09 11:19	
Toluene-d8 (S)	%	103	80-120	12/17/09 11:19	

LABORATORY CONTROL SAMPLE: 17444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	mg/kg	.04	0.038	96	71-123	
1,2-Dichloroethane	mg/kg	.04	0.037	93	71-124	
Benzene	mg/kg	.04	0.043	107	68-124	
Diisopropyl ether	mg/kg	.04	0.040	100	20-160	
Ethanol	mg/kg	.8	0.72	90	60-140	
Ethyl-tert-butyl ether	mg/kg	.04	0.040	99	70-140	
Ethylbenzene	mg/kg	.04	0.040	101	63-131	
Methyl-tert-butyl ether	mg/kg	.04	0.037	93	68-139	
tert-Amylmethyl ether	mg/kg	.04	0.041	103	74-125	
tert-Butyl Alcohol	mg/kg	.2	0.18	88	49-122	
Toluene	mg/kg	.04	0.039	98	61-126	
Xylene (Total)	mg/kg	.12	0.13	105	68-129	
1,2-Dichloroethane-d4 (S)	%			93	80-143	
4-Bromofluorobenzene (S)	%			93	72-122	
Dibromofluoromethane (S)	%			101	80-136	
Toluene-d8 (S)	%			92	80-120	

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252654

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17445 17446

Parameter	Units	252653005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	mg/kg	ND	.04	.04	0.028	0.025	71	64	71-123	11	M0
1,2-Dichloroethane	mg/kg	ND	.04	.04	0.027	0.025	69	63	71-124	10	M0
Benzene	mg/kg	ND	.04	.04	0.032	0.029	81	74	68-124	10	
Diisopropyl ether	mg/kg	ND	.04	.04	0.031	0.028	78	71	20-160	9	
Ethanol	mg/kg	ND	.8	.8	0.69	0.66	86	83	60-140	5	
Ethyl-tert-butyl ether	mg/kg	ND	.04	.04	0.030	0.027	76	69	70-140	10	M0
Ethylbenzene	mg/kg	ND	.04	.04	0.027	0.023	67	57	63-131	16	M0
Methyl-tert-butyl ether	mg/kg	0.022	.04	.04	0.041	0.039	49	44	68-139	5	M0
tert-Amylmethyl ether	mg/kg	ND	.04	.04	0.032	0.029	79	72	74-125	9	M0
tert-Butyl Alcohol	mg/kg	0.032	.2	.2	0.16	0.16	63	66	49-122	4	
Toluene	mg/kg	ND	.04	.04	0.029	0.026	71	64	61-126	11	
Xylene (Total)	mg/kg	ND	.12	.12	0.081	0.069	68	58	68-129	16	M0
1,2-Dichloroethane-d4 (S)	%						93	93	80-143		
4-Bromofluorobenzene (S)	%						98	101	72-122		
Dibromofluoromethane (S)	%						100	98	80-136		
Toluene-d8 (S)	%						96	97	80-120		

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252654

QC Batch: MSV/1802
QC Batch Method: CA LUFT
Analysis Method: CA LUFT
Analysis Description: CA LUFT MSV GRO
Associated Lab Samples: 252654001

METHOD BLANK: 17687 Matrix: Solid
Associated Lab Samples: 252654001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	mg/kg	ND	0.25	12/17/09 11:19	
4-Bromofluorobenzene (S)	%	99	72-122	12/17/09 11:19	

LABORATORY CONTROL SAMPLE: 17688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	mg/kg	.5	0.44	88	60-140	
4-Bromofluorobenzene (S)	%			104	72-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 17689 17690

Parameter	Units	252653005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	mg/kg	ND	.2	.2	.18J	.2J	68	75	60-140		
4-Bromofluorobenzene (S)	%						106	107	72-122		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALIFIERS

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252654

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-S	Pace Analytical Services - Seattle

ANALYTE QUALIFIERS

1n	Result was obtained from silica gel treated extract.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: I42611270 3255 McCarthy Rd.
Pace Project No.: 252654

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
252654001	**COMP-ABCD_20091211**	EPA 3546	OEXT/1735	EPA 8015B	GCSV/1382
252654001	**COMP-ABCD_20091211**	EPA 3050	MPRP/1382	EPA 6010	ICP/1303
252654001	**COMP-ABCD_20091211**	EPA 8260	MSV/1795		
252654001	**COMP-ABCD_20091211**	CA LUFT	MSV/1802		

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A — Required Client Information:

Company:	Delta Consultants
Address:	312 Piercy Rd
	San Jose, CA 95138
Email To:	tperini@deltaenv.com
Phone: 408.826.1867	Fax:
Requested Due Date/TAT:	Std

Section B — Required Project Information:

Report To:	tperini@deltaenv.com
Copy To:	shayes@deltaenv.com,
	jdumas@deltaenv.com *
Purchase Order No.	142611270 3255 McCarthy Rd
Client Project ID:	142611270
Container Order Number:	

Section C — Invoice Information:

Attention:	Tony Perini
Company Name:	Delta Consultants
Address:	312 Piercy Rd, San Jose, CA 95138
Pace Quote Reference:	
Pace Project Manager:	Regina SteMarie
Pace Profile #:	21780 LJ

Regulatory Agency: State / Location: California

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	Total # OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8015m - TPHd Extractable (silica gel cleanup)	8260B - TPHg/BTEX/MtBE	Sulfate	Nitrate	Total Iron	Ferric Iron	Ferrous Iron	8260B - TPHg / BTEX / 8 Oxygenates	Total Lead	Residual Chlorine (Y/N)	252654
																		Y/N	N	N	N	N	N	N				
1	COMP-ABCD_20091211* RSm 12/14/09	SL	C	12/11/09	9:25				4										X							X	X		-001
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Global ID: T0607500430				Chuck Pace	12/12/09	1430	1.9	Y	Y	Y
*Project and Sample IDs edited to reflect Delta naming convention. RSm 12/14/09										

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Joe Dumas		
SIGNATURE of SAMPLER:	Joe Dumas	DATE Signed:	12-11-09

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Sample Condition Upon Receipt

Pace Analytical

Client Name: Delta Consultants Project # 252654

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Optional
Proj. Due Date:
Proj. Name:

Tracking #: 8531 2806 9807

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used: Horiba 132013 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.9 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C Comments:

Date and Initials of person examining contents: 12/12/09 AR

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.	
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.	
Chain of Custody Relinquished: 12/11/09 AR	☑Yes ☑No ☐N/A	3.	
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.	
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.	
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.	
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.	
Sufficient Volume:	☑Yes ☐No ☐N/A	8.	
Correct Containers Used:	☑Yes ☐No ☐N/A	9. Samples recieved in Sleeves - composited and transfered to 8oz jars 12/14/09 AR	
-Pace Containers Used:	☐Yes ☑No ☐N/A		
Containers Intact:	☑Yes ☐No ☐N/A	10.	
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.	
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.	
-Includes date/time/ID/Analysis Matrix: Soil			
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	Initial when completed	Lot # of added preservative
exceptions: (VOA) coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No		
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.	
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.	
Trip Blank Present:	☐Yes ☑No ☐N/A	16.	
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A		
Pace Trip Blank Lot # (if purchased):			

Field Data Required? Y / N

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Attachment E

Blaine Tech Soil Gas Sampling
Field Logs

Soil Vapor Sampling Form

Project Name: 2611270 ALAMEDA SOIL GAS SAMPLE	
Project Number: 2611270	
Date: 1/8/10	
Sampled By: J. PARKER	Signature:

Well ID: SV-1	1) Sample ID: SV-1
Field Duplicate? Y (N)	2) Duplicate ID: N/A
Sample Depth Interval: 5'	

Weather: OVERCAST	
Barometric Pressure: 30.15	
Relative Pressure: -0.07	
Purge Device:	Landtec GEM 2000
Calculated Purge Volume: ~~100 ml~~	42 cc (mL) x 3 = 126 cc (mL) WMS
Purge Rate:	300 ml/min
Calculated Purge Time:	:25

Well Purging

Elapsed Time (sec)	Volume Purged (ml) WMS	Methane (CH_4)	Carbon Dioxide (CO_2)	Oxygen % (O_2)	Balance Gas (N_2)	% LEL	Hydrogen Sulfide
0:00	0	~~3.0~~ ①	~~2.8~~ ②	~~13.1~~ ③	~~82.3~~ ③	~~0~~ ④	~~0~~ ③
:09	~~300~~ 42	3.0	2.8	13.1	82.3	0	0
:18	~~600~~ 84	0	4.2	13.8	82.0	0	0
:27	~~900~~ 126	0	4.2	13.9	81.8	0	0

Sample Collection

Summa Canister ID	Flow Controller ID	Analog Vacuum Gauge ID	Start Time	Start Canister Vacuum (In-Hg)	End Time	End Canister Vacuum (In-Hg)	Total Collection Time (minutes)
1) 0663	A13	N/A	1024	-23	1103	-4	39 WMS
2)							

Summa Canister Volume:	6 Liters
Flow Control Orifice:	100 ml/min
Tubing:	0.25-inch diameter Teflon

Notes:

STATIC: -0.07 RELATIVE PRESSURE * INITIAL AMBIENT GAUGE READING: +3 IN Hg

100 mL/min

NEG FLOW CONTROL ORIFICE ONLY USED FOR SAMPLING

Soil Vapor Sampling Form

Project Name: 2611270 ALAMEDA SOIL GAS SAMPLE	
Project Number: 2611270	
Date: 1/8/10	
Sampled By: J. PACKER	Signature:

Well ID: SV-2	1) Sample ID: SV-2
Field Duplicate? Y (N)	2) Duplicate ID: N/A
Sample Depth Interval: 5'	

Weather: OVERCAST	
Barometric Pressure: 30.14	
Relative Pressure: -0.06	
Purge Device:	Landtec GEM 2000
Calculated Purge Volume: ~~900 cc~~	42 cc (mL) x 3 = 126 cc (mL) (WRS)
Purge Rate:	300 ml/min
Calculated Purge Time:	25 sec

Well Purging

Elapsed Time (sec)	Volume Purged (ml) (WRS)	Methane (CH_4)	Carbon Dioxide (CO_2)	Oxygen % (O_2)	Balance Gas (N_2)	% LEL	Hydrogen Sulfide
0:00	0	—	—	—	—	—	—
09	~~300~~ 42	0	1.0	14.8	47.0	>100	0
18	~~600~~ 84	40.1	7.8	0.3	51.8	>100	0
27	~~900~~ 126	40.1	7.8	0.0	52.0	>100	0

Sample Collection

Summa Canister ID	Flow Controller ID	Analog Vacuum Gauge ID	Start Time	Start Canister Vacuum (In-Hg)	End Time	End Canister Vacuum (In-Hg)	Total Collection Time (minutes)
1) 1266	40	N/A	0938	-28	1048	-5	50
2)							

Summa Canister Volume:	6 Liters
Flow Control Orifice:	100 ml/min
Tubing:	0.25-inch diameter Teflon

Notes:

STATIC: -0.05

(WRS) 100mL/min FLOW CONTROL ORIFICE ONLY USED FOR SAMPLING

Soil Vapor Sampling Form

Project Name:	2611270 ALAMEDA SOIL GAS SURVEY
Project Number:	2611270
Date:	1/8/10
Sampled By:	J. PARKER **Signature:**

Well ID:	SV-3 **1) Sample ID:** SV-3
Field Duplicate?	Y (N) **2) Duplicate ID:** —
Sample Depth Interval:	5'

Weather:	OVERCAST
Barometric Pressure:	30.14
Relative Pressure:	-0.06
Purge Device:	Landtec GEM 2000
Calculated Purge Volume:	~~900 ml~~ 42 cc(mL) x3 = 126 cc (mL) WRS
Purge Rate:	300 ml/min
Calculated Purge Time:	:25

Well Purging

Elapsed Time (sec)	Volume Purged (ml) WRS	Methane (CH_4)	Carbon Dioxide (CO_2)	Oxygen % (O_2)	Balance Gas (N_2)	% LEL	Hydrogen Sulfide
0:00	0	—	—	—	—	—	—
:09	~~300~~ 42	0	3.1	11.0	79.0	0	0
:18	~~600~~ 84	0	9.3	11.2	79.5	0	0
:27	~~900~~ 126	0	9.3	11.1	79.5	0	0

Sample Collection

Summa Canister ID	Flow Controller ID	Analog Vacuum Gauge ID	Start Time	Start Canister Vacuum (In-Hg)	End Time	End Canister Vacuum (In-Hg)	Total Collection Time (minutes)
1) 0486	159	N/A	0914	-30	1005	-5	50
2)							

Summa Canister Volume:	6 Liters
Flow Control Orifice:	100 ml/min
Tubing:	0.25-inch diameter Teflon

Notes:

STATIC: -.006 RELATIVE PRESS
NO LEAKS, NO MOISTURE

WRS 100 mL/MIN FLOW CONTROL ORIFICE ONLY USED FOR SAMPLING

Soil Vapor Sampling Form

Project Name: 2611270 ALAMEDA SOIL GAS SURVEY	
Project Number: 2611270	
Date: 1/8/10	
Sampled By: J. PARKER	Signature:

Well ID: SV-4	1) Sample ID: SV-4
Field Duplicate? Y (N)	2) Duplicate ID: N/A
Sample Depth Interval: 5'	

Weather: OVERCAST	
Barometric Pressure: 30.13	
Relative Pressure: -0.07	
Purge Device:	Landtec GEM 2000
Calculated Purge Volume: ~~400 mL~~	42 cc (mL) x 3 = 126 cc (mL) WRS
Purge Rate:	300 ml/min
Calculated Purge Time:	:25

Well Purging

Elapsed Time (sec)	Volume Purged (ml) WRS	Methane (CH_4)	Carbon Dioxide (CO_2)	Oxygen % (O_2)	Balance Gas (N_2)	% LEL	Hydrogen Sulfide
0:00	0	—	—	—	—	—	—
:09	~~300~~ 42	0	0.3	20.4	73.2	18	0
:18	~~600~~ 84	1.0	10.7	0.9	87.5	20	0
:27	~~900~~ 126	1.0	10.8	0.1	87.9	20	0

Sample Collection

	Summa Canister ID	Flow Controller ID	Analog Vacuum Gauge ID	Start Time	Start Canister Vacuum (In-Hg)	End Time	End Canister Vacuum (In-Hg)	Total Collection Time (minutes)
1)	0947	FC4	N/A	0845	-29	0952	-5	67
2)								

Summa Canister Volume:	6 Liters
Flow Control Orifice:	100 ml/min
Tubing:	0.25-inch diameter Teflon

Notes:

STATIC: -0.08 RELATIVE PRESS

NO VISIBLE MOISTURE IN-LINE

ALCOHOL USED FOR LEAK TEST.

WRS 100 mL/min FLOW CONTROL ORIFICE ONLY USED FOR SAMPLING.

Soil Vapor Sampling Form

Project Name:	2611270 ALAMEDA SOIL GAS SAMPLES
Project Number:	2611270
Date:	1/8/10
Sampled By:	J. PARKER
Signature:	

Well ID:	SV-5
Field Duplicate?	Y (N)
Sample Depth Interval:	5'
1) Sample ID:	SV-5
2) Duplicate ID:	N/A

Weather:	OVERCAST
Barometric Pressure:	30.15
Relative Pressure:	0.07
Purge Device:	Landtec GEM 2000
Calculated Purge Volume:	~~400 ml~~ 42 cc (mL) x 3 = 126 cc (mL) WRS
Purge Rate:	300 ml/min
Calculated Purge Time:	:25

Well Purging

Elapsed Time (sec)	Volume Purged (ml) WRS	Methane (CH_4)	Carbon Dioxide (CO_2)	Oxygen % (O_2)	Balance Gas (N_2)	% LEL	Hydrogen Sulfide
0:00	0	—	—	—	—	—	—
:09	~~300~~ 42	0	0.4	16.2	70.3	>100	0
:18	~~600~~ 84	10.2	9.7	0.6	79.7	>100	0
:27	~~900~~ 126	10.5	9.8	0.0	79.7	>100	0

Sample Collection

Summa Canister ID	Flow Controller ID	Analog Vacuum Gauge ID	Start Time	Start Canister Vacuum (In-Hg)	End Time	End Canister Vacuum (In-Hg)	Total Collection Time (minutes)
1) 0425	1	N/A	1045	~~-30~~ -27	1128	-5	43 EWRS
2)							

Summa Canister Volume:	6 Liters
Flow Control Orifice:	100 ml/min
Tubing:	0.25-inch diameter Teflon

Notes:

STATIC: 0.07 RELATIVE PRESS

WRS 100mL/MIN FLOW CONTROL ORIFICE ONLY USED FOR SAMPLING