



76 Broadway
Sacramento, California 95818

RECEIVED

3:00 pm, Nov 25, 2009

Alameda County
Environmental Health

November 25, 2009

Barbara Jakub
Alameda County Health Agency
1131 Harbor Bay parkway, Suite250
Alameda, California 94502-577

Re: ***Additional Investigation Report and REQUEST FOR CASE CLOSURE***
76 Service Station # 0018 RO # 0243
6201 Claremont Ave.
Oakland, CA

Dear Ms. Jakub:

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) 558-7666.

Sincerely,

Terry L. Grayson
Site Manager
Risk Management & Remediation

November 20, 2009

Ms. Barbara Jakub
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

**Subject: Additional Assessment Report and Request
for Case Closure**

**76 Service Station No. 0018
6201 Claremont Avenue
Oakland, California
ACEH LOP Case No. RO0000243**



Dear Ms. Jakub:

Delta Consultants (Delta), on behalf of ConocoPhillips Company (ConocoPhillips), has prepared this *Additional Site Assessment Report and Request for Case Closure* for the above referenced site (**Figure 1**) to report the findings from the most recent investigation of petroleum hydrocarbons in the vicinity of the former underground fuel storage tanks (USTs), as well as the down gradient extent of methyl tert-butyl ether (MTBE) at ConocoPhillips 76 Service Station Number 0018, located at 6201 Claremont Avenue in Oakland, CA (the Site). Additionally, as both historic data and data from the current investigation show that concentrations are defined, and are low to below reporting limits in both soil and groundwater beneath the site and in the site vicinity, Delta, on behalf of ConocoPhillips, requests regulatory case closure for the subject leaking underground fuel tank (LUFT) case. The following report has been prepared in response to a letter from the Alameda County Environmental Health Department (ACEH) dated August 13, 2008 (**Attachment A**). The scope of this investigation involved the advancing three soil borings (two onsite in the area of the former and one downgradient offsite), for the collection of soil and groundwater samples.

SITE DESCRIPTION

The Site is an active 76 Service Station, located at the north corner of the intersection of College Avenue and Claremont Avenue in Oakland, California. The site vicinity consists of a mixed commercial, residential, and retail establishments. The service station facilities consist of a station building, two product dispenser islands under a single canopy, two 12,000-gallon gasoline underground storage tanks (UST), and two hydraulic hoists within a vehicle service area in the station building. A general arrangement map from 1962 indicates that three fuel underground storage tanks were formerly located in the southern region of the site. Details regarding their installation and removal are not available. The approximate locations of these and other pertinent site features are shown on the Site Map (**Figure 2**).

BACKGROUND

March 1997 Kaprealian Engineering Inc. (KEI) collected nine soil and one grab groundwater sample during UST and product line replacement activities. One soil sample collected from the UST excavation contained 2.6 milligrams per kilograms (mg/kg) of total petroleum hydrocarbons as gasoline (TPH-G). Another soil sample collected from beneath a dispenser island contained 1.4 mg/kg TPH-G, 0.012 mg/kg benzene, and 1.4 mg/kg MTBE. The groundwater sample collected from the UST excavation contained 6,100 micrograms per liter ($\mu\text{g/l}$) of TPH-G and 54 $\mu\text{g/l}$ benzene. (KEI, 1997)

March 1998 Tosco was issued a Notice of Responsibility by the ACEH.

July 2000 Gettler-Ryan Inc. (GR) installed three groundwater monitoring wells (MW-1 through MW-3) to depths of 30 feet below ground surface (bgs). Five soil samples were collected from the borings for the wells. Sample MW-1-25.5, from a depth of 25.5 foot bgs, contained 19 mg/kg of TPH-G and 0.018 mg/kg of benzene. Initial groundwater samples contained low ($\leq 120 \mu\text{g/l}$) concentrations of TPH-G, benzene, and MTBE.

November 2000 A quarterly monitoring program, utilizing the three on-site monitoring wells (MW-1 through MW-3), was initiated. (GR, 2000)

October 2003 Site environmental consulting responsibilities were transferred to TRC.

January 2006 TRC completed a *No Further Action Required Report – Request for Closure*.

April 2006 TRC completed a sensitive receptor survey.

October 2007 Site environmental consulting responsibilities were transferred to Delta Consultants.

SENSITIVE RECEPTORS

A sensitive receptor survey for the site was conducted in April 2006. According to the Department of Water Resources (DWR) records, no water supply wells are located within a one-half mile radius of the site (TRC, 2006).

PREFIELD ACTIVITIES

Prior to field activities, Delta produced a Site Health and Safety Plan, which was reviewed daily by field personnel. Prior to drilling, Delta marked all proposed boring locations and contacted Underground Service Alert (USA ticket numbers 300514, 300530 and 300539) to request the locating and marking of all underground utilities at, or adjacent to, the proposed boring locations. Delta also employed a private utility locator to identify possible private underground utilities in the vicinity of the proposed boring locations. Additionally, all boring locations were cleared using air knife technology to a depth of at least seven feet bgs prior to drilling. The purpose of first air knifing each location was to ensure that unmarked underground utilities would not be encountered during drilling. Permits to drill exploratory borings were obtained from the Alameda County Water District (ACWD). Obstruction permits and an excavation permit were obtained from the City of Oakland in order to advance offsite boring B-3. ACWD permits are presented in **Attachment B**.

SOIL AND GROUNDWATER INVESTIGATION

On October 26th, 2009, Delta oversaw the advancement of three soil borings, B-1, B-2 and B-3. Prior to boring advancement, depth to groundwater was measured in well MW-1 at 19.92 below the top of well casing (TOC). With this nearby groundwater measurement, it was anticipated that groundwater would be encountered in onsite borings at approximately 20 feet bgs. Borings B-1 and B-2 were advanced on site in the location of the former fuel USTs believed to be located in the southern portion of the site (**Figure 2**). Boring B-3 was advanced offsite, down gradient of the site B-3 was originally proposed to be advanced northeast of its final location, on the west side of College Avenue as shown in **Attachment A**. During utility pre-clearance, a sewer line was uncovered at a depth of approximately three feet below grade on College Avenue. Due to the presence of the sewer line, the location of B-3 was moved to the pre-determined alternate location on 62nd Street (**Figure**

2). The borings were advanced to depths of approximately 24 to 26 feet bgs, using direct push technology. The drilling rig was equipped with sampling rods four feet in length. Groundwater was encountered soil boring B-3 at a depth of 23 feet bgs. Groundwater was not encountered in borings B-1 or B-2. Details regarding dry borings are discussed further in the *Soil Borings* section below.

Soil Borings

Direct push sampling equipment operated by Gregg Drilling and Testing, Inc. (Gregg) (License C57-485165) was used to advance the borings. Soil samples were collected on a continuous basis. The samples were logged by the field geologist, utilizing the Unified Soil Classification System by the American Society for Testing and Materials (ASTM) method D-2487, dated May 2000. A photo ionization detector (PID) was used to measure concentrations of volatile organic compounds in soil samples collected from the boreholes. To obtain a PID reading, a soil sample from each sampling interval (approximately every 5 feet) was placed in a sealed plastic bag. After at least five minutes, the PID probe was inserted into the plastic bag and soil gas allowed to pass through the PID until readings stabilized. The resulting concentration reading was recorded in the geologist's field log. Soil boring logs with PID readings are presented as **Attachment C**.

Soils encountered in soil borings consisted of primarily fine grained deposits with thin layers of coarse grained sand and gravel deposits. In onsite borings B-1 and B-2, advanced in the location of the former fuel USTs, artificial fill was encountered to a depth of approximately 9 feet bgs. The artificial fill consisted of clayey sand with concrete debris and brick. Below this depth, silt with sand, sandy silt, sandy lean clay and lean clay were encountered. Boring B-1 had poor recovery in several sample intervals, and refusal was met at 24 feet bgs. In the last sampling interval (attempted from 22 feet bgs), the soil liner was crushed inside the sample rod, and fractured granitic rocks were observed at the base of the sampler. PID readings in B-1 ranged from 0.0 parts per million (ppm) to a maximum of 0.4 ppm at a depth of 21.5 feet bgs. Since no PID spikes were recorded in soils from B-1, a soil sample from directly below the artificial fill (10 feet bgs) and the deepest soil sample (21.5 feet bgs) were submitted for analysis.

Boring B-2 exhibited similar lithology to B-1, though recovery was more successful. Thin layers of well graded sands were observed at 17 feet bgs and 21.5 feet bgs between clay layers. Refusal was met in boring B-2 at a depth of 26 feet bgs. PID readings ranged from 0.1 ppm in the upper 16 feet of the boring, to a maximum of 37.2 ppm at a depth of 26 feet

bgs. Soil samples were selected for laboratory submittal from depths of 10 feet bgs, (just below artificial fill), and from 20' and 26' based off of the aforementioned PID readings. Since groundwater was not encountered in borings B-1 and B-2, the borings were left open overnight with permission from the ACWD, and secured at ground surface with trench plates. After 24 hours, no groundwater was observed in temporary wells inserted into the borings. On October 27th, the borings were backfilled with Portland cement to a few inches below grade, capped with concrete and dyed black to match surrounding asphalt.

Soil from boring B-3 was primarily clayey with thin layers of clayey sand. At a depth of approximately 23 feet bgs, soils consisted of poorly graded sands and gravels. Groundwater was encountered in B-3 at a depth of 23 feet bgs, and was advanced to a total depth of 25 feet bgs. Groundwater samples were collected from B-3, as well as a soil sample from 23 feet. Boring logs are presented in **Attachment C** and cross sections are presented as **Figures 3 and 4**.

Down-hole tools were cleaned prior to and between each boring to prevent cross-contamination.

Soil and Groundwater Sampling

Onsite soil samples were analyzed for TPH-G, BTEX compounds, fuel oxygenates—MTBE, tert butyl alcohol (TBA), ethylene dibromide (1,2 DBA) and ethylene dichloride (1,2 EDC) by EPA Method 8260B, and TPH-D with silica gel cleanup by EPA Method 8015B Modified. Soil and groundwater samples from offsite boring B-3 were analyzed for TPH-G, BTEX compounds, MTBE, TBA, 1,2 DBA, 1,2 DCA, tertiary amyl methyl ether (TAME), ethyl tertiary butyl ether (ETBE) and di-isopropyl ether (DIPE) by EPA Method 8260B.

Selected soil samples were capped with Teflon[®] and plastic end caps, then immediately placed on ice. The samples were then logged on to chains-of-custody forms, and submitted to BC Labs in Bakersfield, California for chemical analyses. The groundwater samples were decanted into 40-milliliter glass VOA bottles, preserved with hydrochloric acid (HCL). The bottles were placed on ice for transportation to the laboratory. Chain-of-Custody protocol was followed, providing a continuous record of sample possession before analysis.

Soil Analytical Results

TPH-G was reported in one soil sample from B-1 and in two soil samples from B-2 at concentrations ranging from 2.0 mg/kg (B-2 at 26 feet bgs) to a maximum of 18 mg/kg (B-2

at 20 feet bgs). **All reported concentrations of TPH-G are below the California Regional Quality Control Board, San Francisco Bay Region (RWQCB) Environmental Screening Level (ESL) of 83 mg/kg.**

TPH-D was reported in two soil samples from B-1 and in one soil sample from B-2 at concentrations ranging from 2.0 mg/kg (B-2 at 20 feet bgs) to a maximum of 2.8 mg/kg (B-1 at 21.5 feet bgs). **All concentrations of TPH-D were reported below the residential ESL of 83 mg/kg.**

MTBE was reported in two soil samples at concentrations of 0.009 mg/kg (B-1 at 21.5 feet bgs) and 0.033 mg/kg (B-2 at 26 feet bgs). The concentration in B-2 at a depth of 26 feet bgs is slightly above the residential ESL of 0.023 mg/kg. MTBE was not detected downgradient of the site, and appears to be confined to the site.

BTEX compounds, 1,2, DCA, 1,2, DBA, TBA, DIPE, ETBE and TAME were not reported above the laboratory reporting limits in any soil samples.

No analytes were reported above the laboratory reporting limits in the soil sample collected from downgradient offsite boring B-3.

A summary of soil analytical results is presented in **Table 1**. Laboratory analytical reports are presented in **Attachment D**.

Groundwater Analytical Results

No analytes were reported above the laboratory reporting limit in the groundwater sample collected from offsite downgradient boring B-3. A summary of groundwater analytical results is presented in **Table 2**. Laboratory analytical reports are presented in **Attachment D**.

CONCLUSIONS AND RECOMMENDATIONS

Delta provides the following conclusions and recommendations:

- Groundwater was not encountered in onsite borings B-1 or B-2 during this investigation. Groundwater was encountered in offsite boring B-3 at a depth of 23 feet bgs.
- Soil at the site can be classified as primarily sandy silt and clay and clayey sands with minor layers of sand and gravel.

- TPH-G and TPH-D were reported in low concentrations **below the San Francisco Regional Water Quality Control Board's (RWQCB) residential environmental screening levels (ESLs) of 83 mg/kg.**
- MTBE was reported at 0.033 mg/kg, which is only slightly above the residential ESL of 0.023 mg/kg in an onsite soil sample.
- No analytes were reported in soil and groundwater samples from offsite downgradient soil boring B-3.

Request for Case Closure

Delta requests that this Site be considered for regulatory case closure based upon the following:

- The extent of impacted soil and groundwater is limited. During the installation of the site's three groundwater monitoring wells in July 2000, TPH-G was reported above the laboratory reporting limit of 1 mg/kg in one sample at a concentration of 19 mg/kg, which is below the ESL of 83 mg/kg for leaching into groundwater. During the current investigation, the maximum concentration of TPH-G was reported at 18 mg/kg, consistent with historic data.
- TPH-D was reported in the current investigation at a maximum concentration of 2.8 mg/kg on site, below the ESL for leaching to groundwater of 83 mg/kg.
- Lead was reported during the 2009 investigation at a concentration of 5.4 mg/kg, which is consistent with regional background levels, and below the ESL of 200 mg/kg.
- BTEX compounds have never been reported above the ESLs for leaching to groundwater in soil samples. In the current investigation, BTEX compounds were not reported above the laboratory reporting levels.
- MTBE was reported 0.01 mg/kg above the residential ESL of 0.023 mg/kg. During the July 2000 well installations, MTBE was not reported in any soil samples above the laboratory reporting limits. MTBE was not reported in soil or groundwater in downgradient boring B-3. Downgradient migration of MTBE from the site is not likely due to the fine grained nature of the site soils, and low concentration in site soils.

- Analytes have never been reported above their respective ESLs in monitoring wells MW-2 and MW-3.
- Currently well MW-1 contains a concentration of 14 µg/l, slightly above the residential ESL for a drinking water resource of 5 µg/l. Historic concentrations in this well indicate an overall decreasing concentration of MTBE in MW-1. Over time this concentration can be expected to decline to below the residential ESL.
- TPH-G is at a current concentration of 62 µg/l which is below the residential ESL for a drinking water source of 100 µg/l. Concentrations of TPH-G in MW-1 appear to be consistent with an overall decreasing trend.
- No analytes were reported in soil and groundwater samples collected from downgradient boring B-3, indicating that the petroleum hydrocarbon plume is limited to the site.
- Two data gaps were discussed in Delta's Site Conceptual Model dated September 12, 2008: 1) the investigation of the former UST location in the southern portion of the site, and 2) the downgradient extent of dissolved MTBE. Delta has concluded that the former USTs in the southern portion of the site are no longer present at the site, and that the extent of contamination beneath the former USTs is minimal. MTBE was not present in boring B-3, which was advanced downgradient of MW-1.
- There are no active water supply wells within a half-mile radius of the site.

REMARKS

The descriptions, conclusions, and 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. For any reports cited that were not generated by Delta, the data from those reports is used "as is" and is assumed to be accurate. Delta does not guarantee the accuracy of this data for the referenced work performed nor the inferences or conclusions stated in these reports. 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 were conducted. 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 express or implied warranty as to the contents of this report.

If you have any questions regarding this work plan or need and additional information about this Site, please do not hesitate to contact the undersigned (408) 826-1863.

Sincerely,

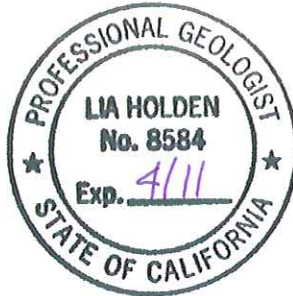
DELTA CONSULTANTS



Nadine Periat
Senior Staff Geologist



Lia Holden, PG #8584
Geologist – Project Manager



Tables:

- Table 1: Soil Analytical Results
- Table 2: Groundwater Analytical Results

Figures:

- Figure 1 – Site Location Map
- Figure 2 – Site Plan
- Figure 3 – Geologic Cross Section A-A'
- Figure 4 – Geologic Cross Section B-B'

Attachments:

- Attachment A: Agency Correspondence
- Attachment B: Alameda County Water District Soil Boring Permits
- Attachment C: Boring Logs
- Attachment D: Laboratory Analytical Reports

cc: Mr. Terry Grayson – ConocoPhillips

REFERENCES

Kaprealian Engineering Incorporated, Soil and Ground Water Sampling Report, Unocal Service Station #0018, 6201 Claremont Avenue, Oakland, California, April 17, 1997.

Alameda County Health Care Services, Notice of Responsibility, Unocal Station #0018, 6201 Claremont Avenue, Oakland, CA, 94619, March 18, 1998

Gettler-Ryan Inc., Well Installation Report, Tosco (76) Service Station No. 0018, 6201 Claremont Avenue, Oakland, California, December 18, 2000.

Gettler-Ryan Inc., Fourth Quarter 2000 Groundwater Monitoring & Sampling Report, Tosco (76) Service Station No. 0018, 6201 Claremont Avenue, Oakland, California, December 18, 2000.

TRC, No Further Action Required Report – Request For Closure, 76 Service Station #0018, 6201 Claremont Avenue, Oakland, CA, Alameda County, January 6, 2006.

TRC, Sensitive Receptor Survey, 76 Service Station # 0018, 6201 Claremont Ave., Oakland, California, April 24, 2006.

California Regional Quality Control Board, San Francisco Bay Region. *Screening For Environmental Concerns at Site with Contaminated Soil and Groundwater*, May 2008.

Delta Consultants, Site Conceptual Model, 76 Service Station #0018, 6201 Claremont Avenue, Oakland, California, September 12, 2008

TRC, Semi-Annual Monitoring Report, April through September 2009, 76 Service Station #0018, 6201 Claremont Avenue, Oakland, California, October 20, 2009.

TABLES

Table 1
Soil Analytical Data

76 Service Station No. 4315
499 North Mathilda Blvd, Sunnyvale, CA

Sample Name	Date	Depth	Sorbed Phase Hydrocarbon Concentrations (mg/kg)													Total Lead
			TPH-G	TPH-D	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	1,2 DCA	1,2 DBA	TBA	DIPE	ETBE	TAME	
B-1	10/26/2009	10	ND<0.2	2.4	ND<0.005	ND<0.005	ND<0.005	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.05	NA	NA	NA	NA
B-1	10/26/2009	21.5	8.9	2.8	ND<0.005	ND<0.005	ND<0.005	ND<0.01	0.009	ND<0.005	ND<0.005	ND<0.05	NA	NA	NA	NA
B-2	10/26/2009	10	ND<0.2	ND<2.0	ND<0.005	ND<0.005	ND<0.005	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.05	NA	NA	NA	NA
B-2	10/26/2009	20	18	2	ND<0.05	ND<0.05	ND<0.05	ND<0.1	ND<0.05	ND<0.05	ND<0.05	ND<0.5	NA	NA	NA	NA
B-2	10/26/2009	26	2	ND<2.0	ND<0.005	ND<0.005	ND<0.005	ND<0.01	0.033	ND<0.005	ND<0.005	ND<0.05	NA	NA	NA	NA
B-3	10/26/2009	20	ND<0.2	NA	ND<0.005	ND<0.005	ND<0.005	ND<0.01	ND<0.005	ND<0.005	ND<0.005	NA	ND<0.005	ND<0.005	ND<0.005	NA
COMP ABCD	10/26/2009	NA	ND<0.2	ND<2.0	ND<0.005	ND<0.005	ND<0.005	ND<0.01	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.005	ND<0.005	ND<0.005	5.4
ESL			83	83	0.044	2.9	2.3	2.3	0.023	0.0045	0.00033	0.075	NA	NA	NA	200

Notes:

mg/kg - milligrams per kilogram

ND - Not detected above laboratory detection limits

TPH-G - Total Petroleum Hydrocarbons - Gasoline

MTBE - Methyl tert-butyl ether

TBA - Tert-butyl alcohol

ESL -Environmental Screening Level - Based on Residential Shallow Soil and Groundwater as a Potential Drinking Water Resource

**Table 2
Groundwater Analytical Data**

76 Service Station No. 4315
499 North Mathilda Blvd, Sunnyvale, CA

Sample Name	Date	Dissolved Phase Hydrocarbon Concentrations (µg/l)										
		TPH-G	Benzene	Toluene	Ethylben	Xylene	MTBE	1,2 DCA	1,2 DBA	DIPE	ETBE	TAME
B-3	10/26/2009	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
ESL		100	1	40	30	20	5	0.5	0.05	NA	NA	NA

µg/l - Micrograms per Liter

ND - Not detected above laboratory detection limits

TPH-G - Total Petroleum Hydrocarbons - Gasoline

MTBE - Methyl tert-butyl ether

TBA - Tert-butyl alcohol

ESL - Environmental Screening Level - Based on Groundwater as a Potential Drinking Water Resource

FIGURES

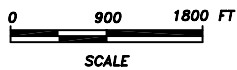
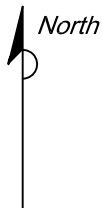
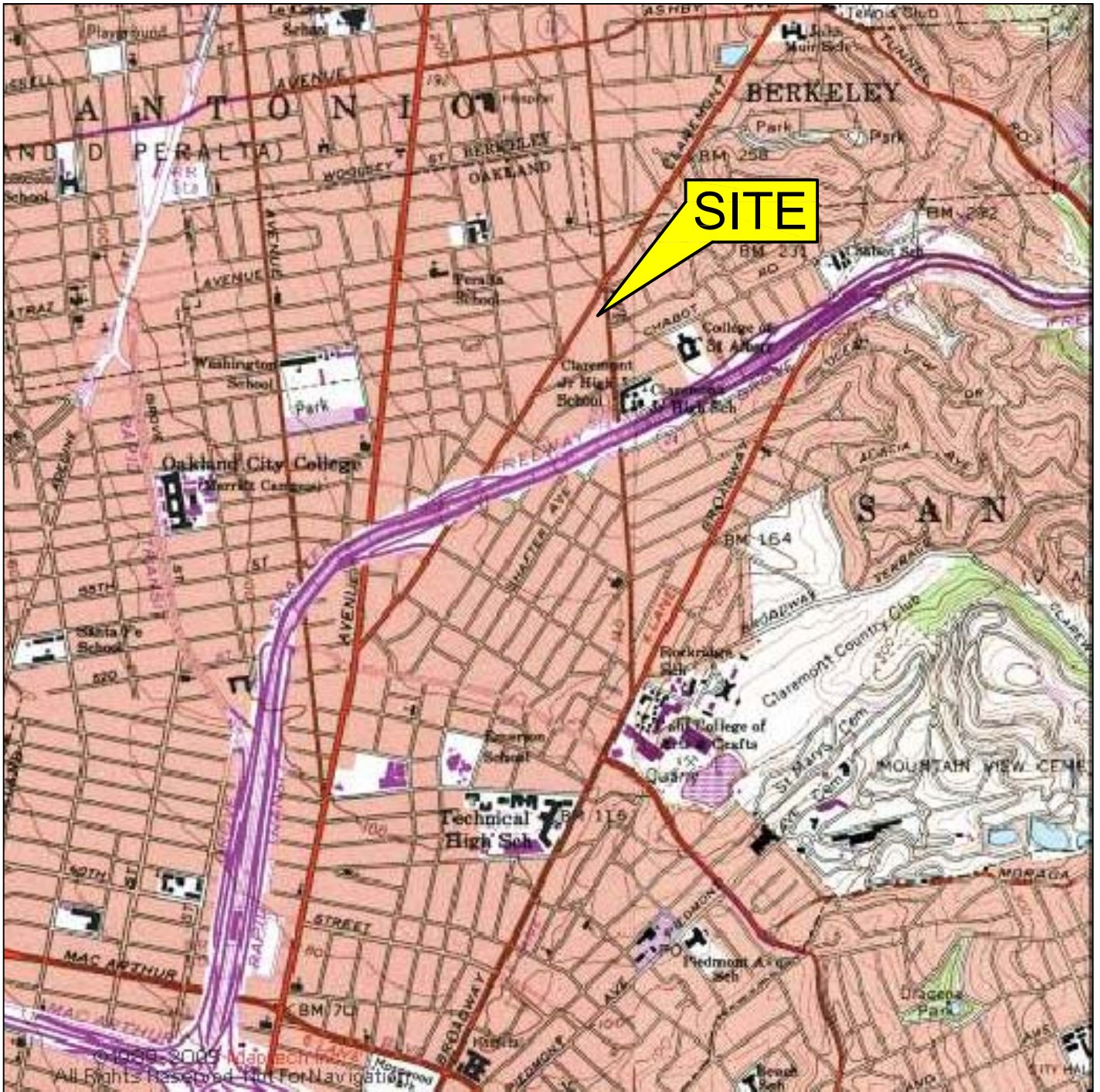


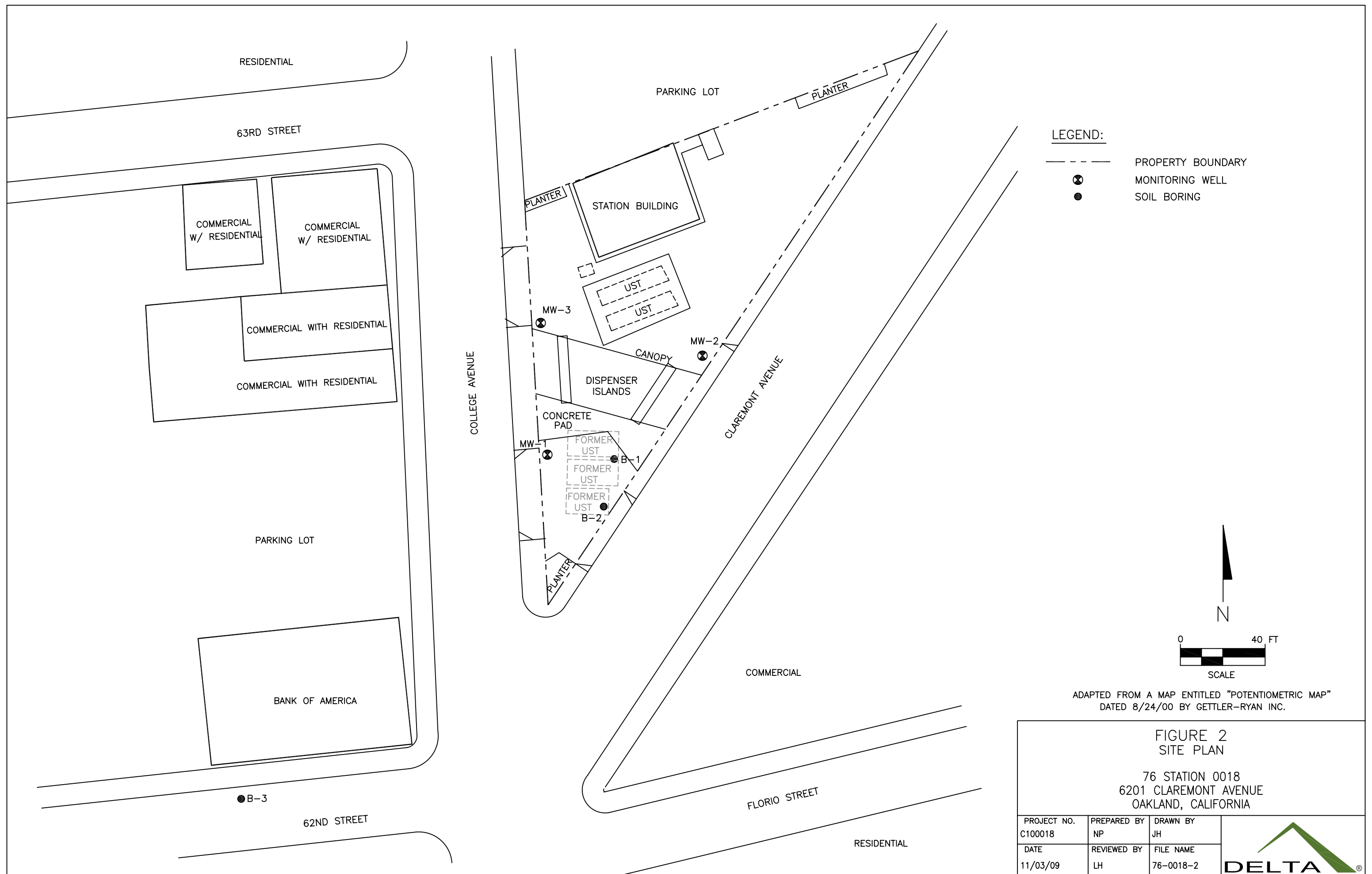
FIGURE 1
SITE LOCATION MAP

76 STATION 0018
6201 CLAREMONT AVENUE
OAKLAND, CALIFORNIA

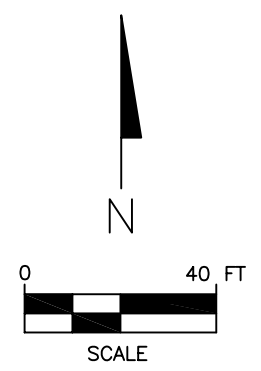
PROJECT NO. C105406	DRAWN BY JH 04/04/08
FILE NO. 5406-SiteLocator	PREPARED BY JW
REVISION NO.	REVIEWED BY JW



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, BERKELEY QUADRANGLE (1978)



LEGEND:
 - - - - - PROPERTY BOUNDARY
 ⊗ MONITORING WELL
 ● SOIL BORING



ADAPTED FROM A MAP ENTITLED "POTENTIOMETRIC MAP"
 DATED 8/24/00 BY GETTLER-RYAN INC.

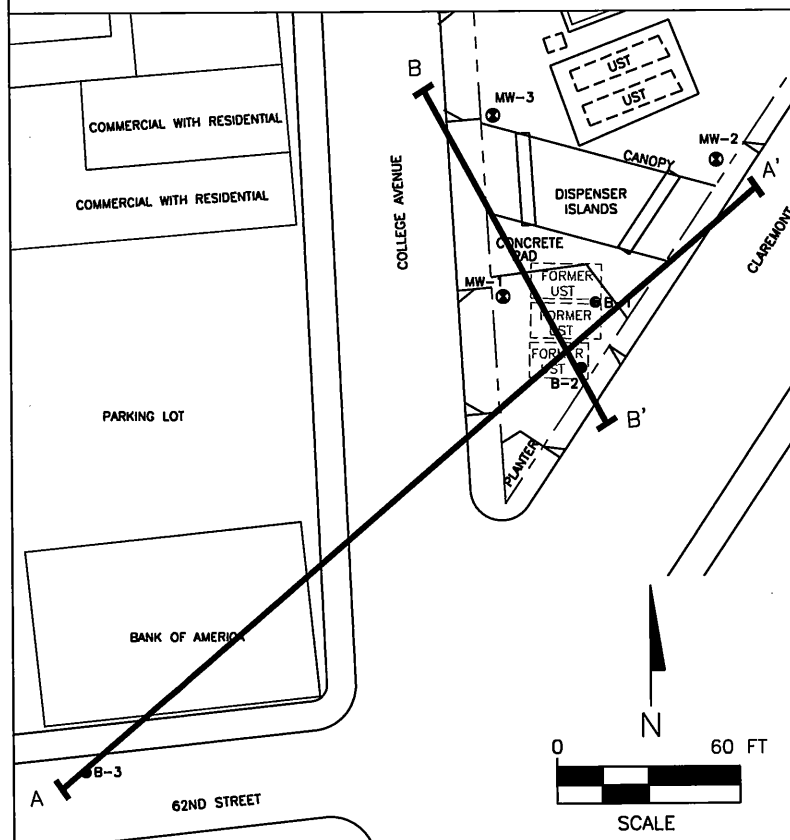
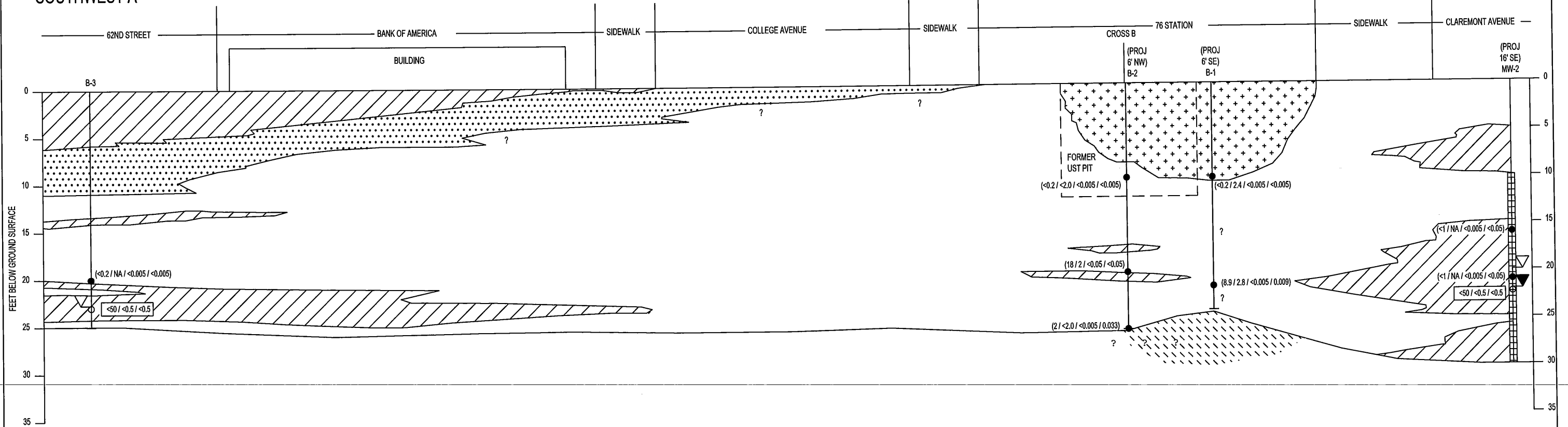
**FIGURE 2
 SITE PLAN**

76 STATION 0018
 6201 CLAREMONT AVENUE
 OAKLAND, CALIFORNIA

PROJECT NO. C100018	PREPARED BY NP	DRAWN BY JH	
DATE 11/03/09	REVIEWED BY LH	FILE NAME 76-0018-2	

SOUTHWEST A

NORTHEAST A'



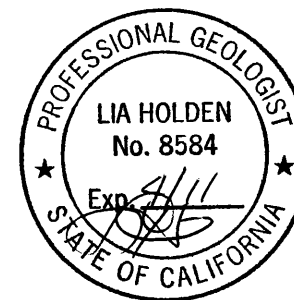
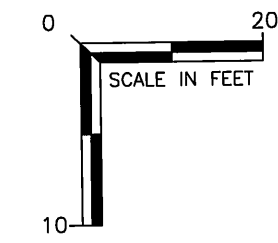
LEGEND

- MONITORING WELL/BORING NAME
- WELL CASING/EXPLORATORY BORING
- SOIL SAMPLE LOCATION
- WELL SCREEN

- DEPTH TO FIRST ENCOUNTERED GROUNDWATER
- DEPTH TO STATIC GROUNDWATER

- SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-G, TPH-D, BENZENE, MTBE (mg/kg)
- GROUNDWATER SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-G, BENZENE, MTBE (ug/L)

APPROXIMATE STRATIGRAPHIC BOUNDARY



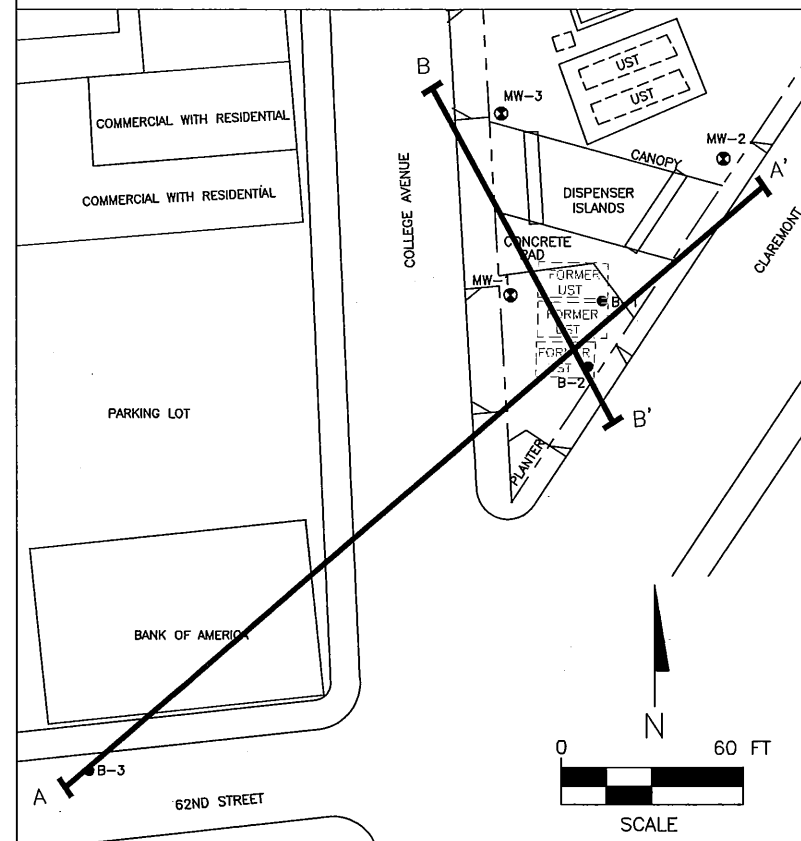
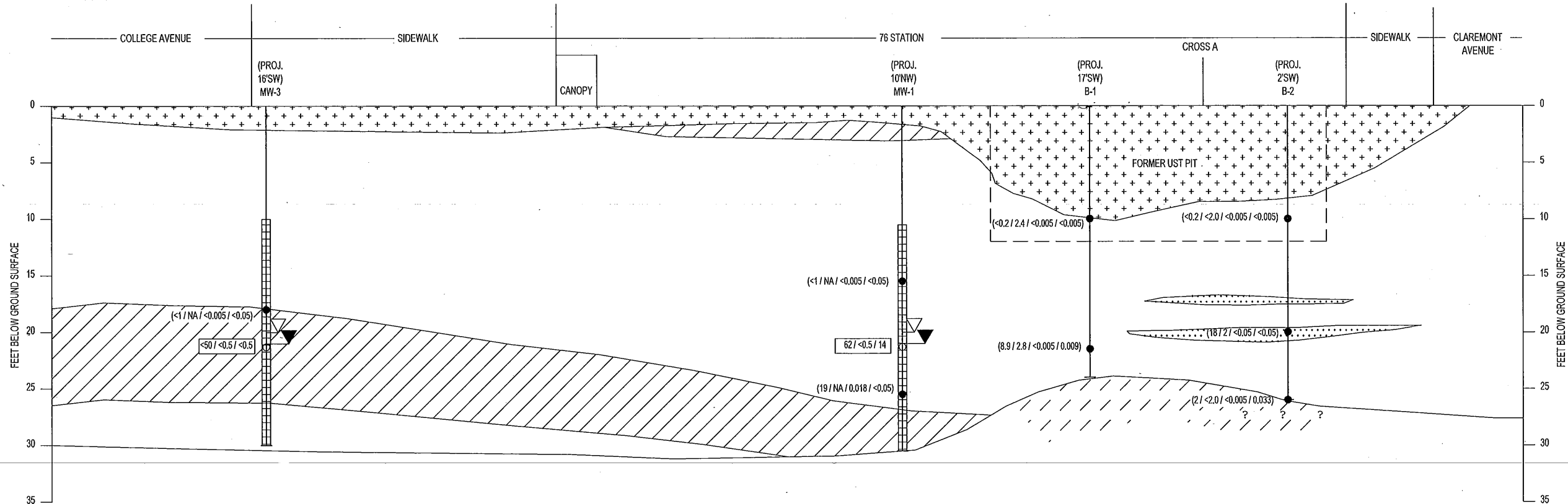
- NOTES:
- 1) <math><50</math> =BELOW THE LABORATORY'S INDICATED REPORTING LIMIT
 NA =NOT ANALYZED
 TPH-G =TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 TPH-D =TOTAL PETROLEUM HYDROCARBONS AS DIESEL
 MTBE =METHYL TERT BUTYL ETHER
 mg/kg =MILLIGRAMS PER KILOGRAM
 ug/L =MICROGRAMS PER LITER
 - 2) STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.
 - 3) SOIL SAMPLES COLLECTED FROM MW-2 ON 7/11/00 (GETTLER RYAN). SOIL AND GROUNDWATER SAMPLES COLLECTED FROM B-1 THROUGH B-3 ON THE DRILLING DATE (10/26/09).

FIGURE 3
GEOLOGIC CROSS SECTION A-A'
 76 STATION 0018
 6201 CLAREMONT AVENUE
 OAKLAND, CALIFORNIA

PROJECT NO. C100018	PREPARED BY NP	DRAWN BY JH	
DATE 11/13/09	REVIEWED BY LH	FILE NAME 76-0018-2	

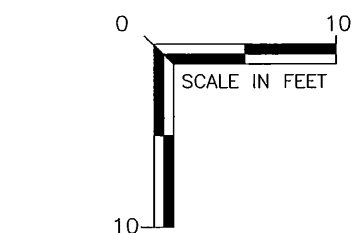
NORTHWEST B

SOUTHEAST B'



LEGEND

- MONITORING WELL/BORING NAME
- WELL CASING/EXPLORATORY BORING
- SOIL SAMPLE LOCATION
- WELL SCREEN
- TOTAL DEPTH IN FEET (DATE INSTALLED)
- DEPTH TO FIRST ENCOUNTERED GROUNDWATER
- DEPTH TO STATIC GROUNDWATER
- SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-G, TPH-D, BENZENE, MTBE (mg/kg)
- GROUNDWATER SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-G, BENZENE, MTBE (ug/L)
- APPROXIMATE STRATIGRAPHIC BOUNDARY



- ARTIFICIAL FILL
- LOW PERMEABILITY (LEAN CLAY, SILT, SANDY SILT, SANDY CLAY, LEAN CLAY WITH SAND, SILT WITH SAND)
- MEDIUM PERMEABILITY (SILTY SAND, CLAYEY SAND)
- HIGH PERMEABILITY (SANDS AND GRAVELS)
- GRANITE

- NOTES:
- 1) <50 =BELOW THE LABORATORY'S INDICATED REPORTING LIMIT
 NA =NOT ANALYZED
 TPH-G =TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 TPH-D=TOTAL PETROLEUM HYDROCARBONS AS DIESEL
 MTBE =METHYL TERT BUTYL ETHER
 mg/kg =MILLIGRAMS PER KILOGRAM
 ug/L =MICROGRAMS PER LITER
 - 2) STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.
 - 3) SOIL SAMPLES COLLECTED FROM MW-1 AND MW-3 ON 7/11/00 (GETTLER RYAN). GROUNDWATER SAMPLED COLLECTED FROM MW-1 AND MW-3 ON 9/30/09 (TRC). SOIL AND GROUNDWATER SAMPLES COLLECTED FROM B1 AND B2 ON DRILLING DATE (10/26/09).

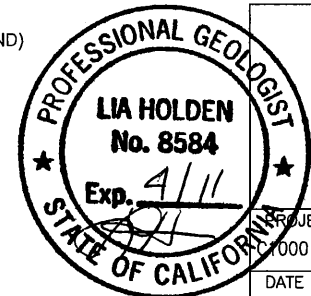


FIGURE 4
GEOLOGIC CROSS SECTION B-B'

76 STATION 0018
6201 CLAREMONT AVENUE
OAKLAND, CALIFORNIA

PROJECT NO. 76-00018	PREPARED BY NP	DRAWN BY JH
DATE 11/13/09	REVIEWED BY LH	FILE NAME 76-0018-2



ATTACHMENT A

Agency Correspondence



RECEIVED
AUG 18 2009

BY: *gpiw*
AOC.d062

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

August 13, 2009

Mr. Terry Grayson
ConocoPhillips
76 Broadway
Sacramento, CA 95818

Andrew and Nila Coffin
Andrew J. and Nila J. Coffin Trust
1841 Glenhaven Avenue
Walnut Creek, CA 94595

Subject: Fuel Leak Case No. RO00000243 and Geotracker Global ID T0600102231, Unocal #0018, 6201 Claremont Avenue, Oakland, CA 94619

Dear Mr. Grayson and Mr. and Mrs. Coffin:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the most recently submitted monitoring reports, the September 12, 2008 *Site Conceptual Model* and the July 6, 2009 *Work Plan for Additional Site Assessment* submitted by Delta. ACEH generally concurs with the proposed work plan and additional work plan is not required provided you incorporate the technical comments listed below. We request that you perform the proposed work, address the following technical comments and send us the reports requested below. Please provide 72-hour advance written notification to this office (e-mail preferred to barbara.jakub@acgov.org) prior to the start of field activities.

TECHNICAL COMMENTS

1. **Former UST Area Analysis** – In addition to your proposed analysis, please analyze soil and groundwater samples for ethylene dibromide (EDB), and ethylene dichloride (EDC) by EPA Method 8260.
2. **Off-Site Borings** – In addition to your proposed analysis, please analyze soil and groundwater samples for ethyl tertiary butyl ether (ETBE), di-isopropyl ether (DIPE), tertiary amyl methyl ether (TAME), ethylene dibromide (EDB), and ethylene dichloride (EDC) by EPA Method 8260.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Barbara Jakub), according to the following schedule:

- **November 30, 2009** –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

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. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

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. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for 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 monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

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

Mr. Grayson and Mr. and Mrs. Coffin
RO0000243
August 13, 2009, Page 3

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.

If you have any questions, please call me at (510) 639-1287 or send me an electronic mail message at barbara.jakub@acgov.org.

Sincerely,



Barbara Jakub, P.G.
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Lia Holden, Delta, 312 Piercy Rd., San Jose, CA, 95138
Donna Drogos, ACEH
Barbara Jakub, ACEH
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

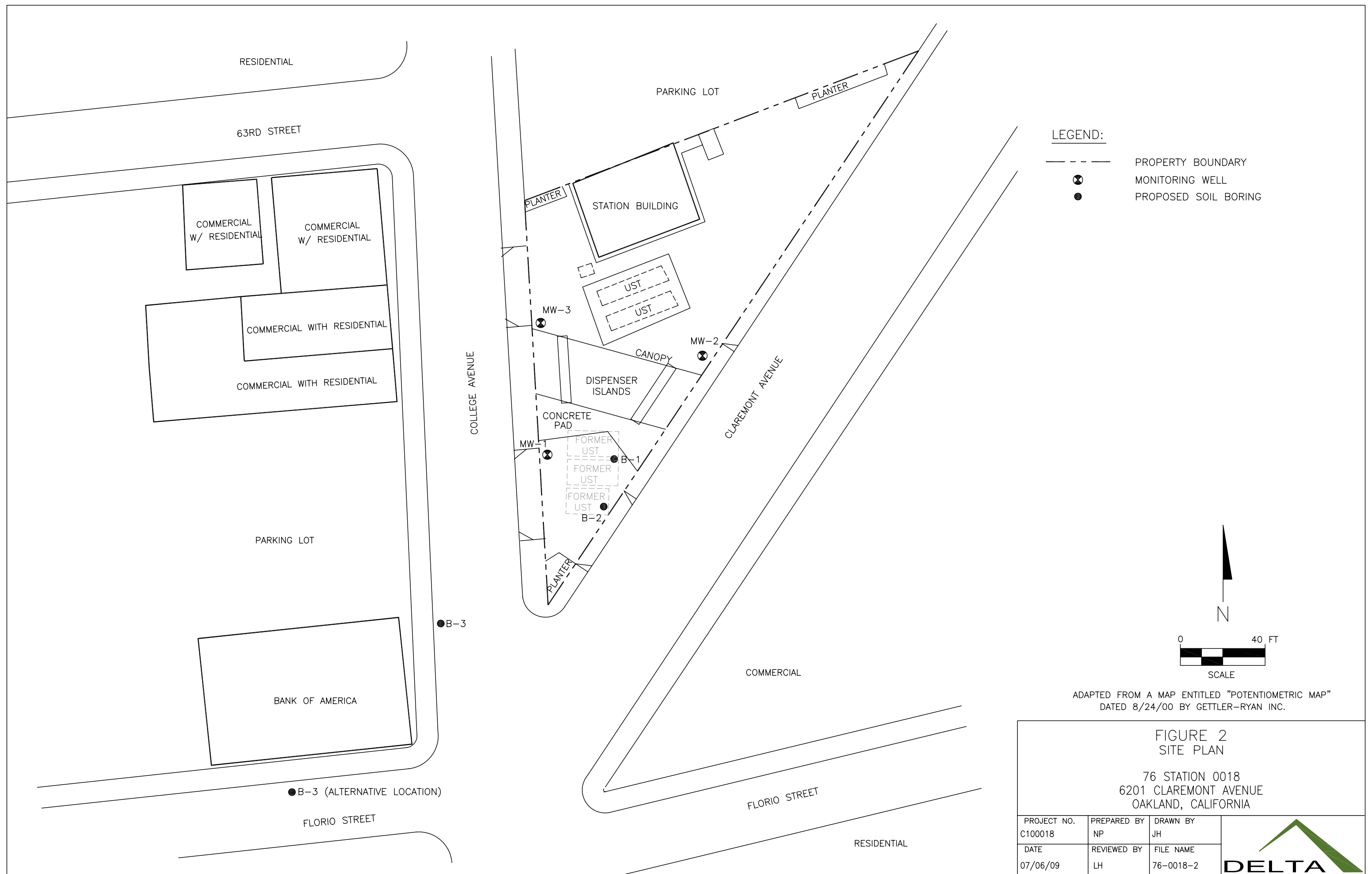
- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection.** (Please do not submit reports as attachments to electronic mail.)
- It is **preferable** that reports be converted to PDF format from their original format, (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

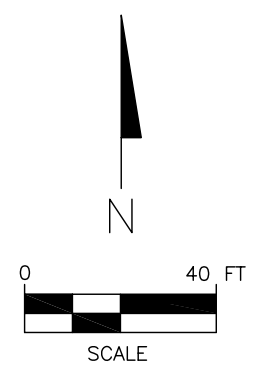
- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in Excel format. These are for use by assigned Caseworker only.

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.



LEGEND:
 - - - - - PROPERTY BOUNDARY
 ⊗ MONITORING WELL
 ● PROPOSED SOIL BORING



ADAPTED FROM A MAP ENTITLED "POTENTIOMETRIC MAP"
 DATED 8/24/00 BY GETTLER-RYAN INC.

**FIGURE 2
 SITE PLAN**

76 STATION 0018
 6201 CLAREMONT AVENUE
 OAKLAND, CALIFORNIA

PROJECT NO. C100018	PREPARED BY NP	DRAWN BY JH	
DATE 07/06/09	REVIEWED BY LH	FILE NAME 76-0018-2	

ATTACHMENT B

Alameda County Water District Soil Boring 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: 10/05/2009 By jamesy

Permit Numbers: W2009-0935
Permits Valid from 10/26/2009 to 10/26/2009

Application Id: 1254265163175
Site Location: 6201 Claremont Ave
(ConcoPhillips Site No. 0018)

City of Project Site:Oakland

Project Start Date: 10/26/2009
Assigned Inspector: Contact John Shouldice at (510) 670-5424 or johns@acpwa.org

Completion Date:10/26/2009

Applicant: Delta Consultants - Nadine Periat
312 Piercy Rd, San Jose, CA 95138
Property Owner: Andrew J. Inila Coffin
6201 Claremont Ave, Oakland, CA 94618
Client: ** same as Property Owner **
Contact: Nadine Periat

Phone: 408-826-1879

Phone: 510-655-9430

Phone: 408-826-1879
Cell: --

	Total Due:	\$265.00
Receipt Number: WR2009-0366	Total Amount Paid:	\$265.00
Payer Name : Delta Consultants	Paid By: CHECK	PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 3 Boreholes
Driller: Gregg Drilling - Lic #: 485165 - Method: DP

Work Total: \$265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2009-0935	10/05/2009	01/24/2010	3	2.00 in.	20.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. 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.
4. 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.

Alameda County Public Works Agency - Water Resources Well Permit

5. Applicant shall contact John Shouldice for an inspection time at 510-670-5424 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.
 6. 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.
 7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.
-

ATTACHMENT C

Boring Logs

Delta

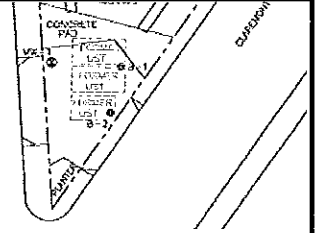
Consultants

Project No: C100018091
 Logged By: Nadine Periat
 Driller: Gregg Drilling and Testing
 Drilling Method: Direct Push (LAR)
 Sampling Method: Continuous
 Casing Type: NA
 Slot Size: NA
 Gravel Pack: NA

Client: ConocoPhillips
 Location: 6201 Claremont Avenue, Oakland, CA
 Date Drilled: 10/26/09
 Hole Diameter: 2"
 Hole Depth: 24'
 Well Diameter: NA
 Well Depth: NA
 Casing Stickup: NA

Well/ Boring ID: B-1
 Page 1 of 2

Location Map



Elevation	Northing	Easting
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Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
				Air Knife to 10 feet bgs 	1		CL	Asphalt Lean Clay, brown, 10-15% fine sand, low plasticity Fractured concrete debris
					2			
					3		SC	Clayey Sand, gray, 5% medium gravel, 20-30% fines, grains consist of blue, red, green, terracotta non native materials, artificial fill
					4			
					5			
					6			
					7			
					8			Fractured brick layer As above
					9			
		Damp	0		10		CL	Lean Clay, brown, 10% fine sand, trace coarse sand, low plasticity.
			0		11			
					12		ML	Sandy Silt, brown, 30-35% fine sand, trace fine gravel, low plasticity
					13			
					14			No Recovery
					15			
					16			
					17			
			0		18		CL	Sandy Lean Clay, gray, 40-45% very fine sand, medium plasticity, trace gravel
					19			
					20			
			0.4		21			
					22			

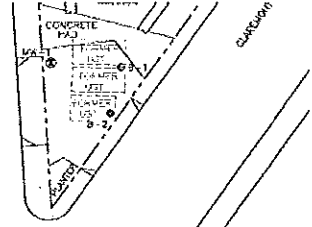
Delta Consultants

Project No: C100018091
 Logged By: Nadine Periat
 Driller: Gregg Drilling and Testing
 Drilling Method: Direct Push (LAR)
 Sampling Method: Continuous
 Casing Type: NA
 Slot Size: NA
 Gravel Pack: NA

Client: ConocoPhillips
 Location: 6201 Claremont Avenue, Oakland, CA
 Date Drilled: 10/26/09
 Hole Diameter: 2"
 Hole Depth: 24'
 Well Diameter: NA
 Well Depth: NA
 Casing Stickup: NA

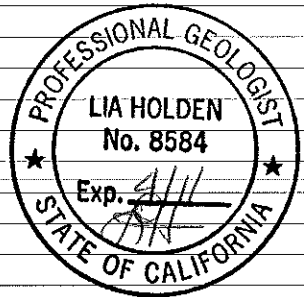
Well/ Boring ID: B-1
 Page 2 of 2

Location Map



Elevation	Northing	Easting
-----------	----------	---------

Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6')	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
					23			
					24			No recovery, sample liner crushed inside sampling rod, granitic rock fragments visible in bottom of liner. Refusal at 24 feet bgs.
					25			Bottom of Boring at 24 Feet bgs.
					26			
					27			Groundwater not encountered in boring. Boring was left open for 24 hours, no groundwater flow into boring.
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			
					41			
					42			
					43			
					44			



Delta

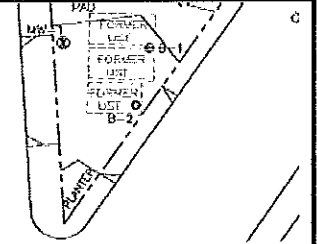
Consultants

Project No: C100018091
 Logged By: Nadine Periat
 Driller: Gregg Drilling and Testing
 Drilling Method: Direct Push (LAR)
 Sampling Method: Continuous
 Casing Type: NA
 Slot Size: NA
 Gravel Pack: NA

Client: ConocoPhillips
 Location: 6201 Claremont Avenue, Oakland, CA
 Date Drilled: 10/26/09
 Hole Diameter: 2"
 Hole Depth: 26'
 Well Diameter: NA
 Well Depth: NA
 Casing Stickup: NA

Well/ Boring ID: B-2
 Page 1 of 2

Location Map



Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
					Air knife to 8 feet bgs 	1		SC	Asphalt
						2		SC	Clayey Sand, brown, 20-30% fines, grains of artificial debris, 5% medium gravel, low plasticity. Artificial Fill.
						3			
						4			
						5			
						6			
						7			
						8		SM	Silt with Sand, brown, 25-30% fine sand, low plasticity
			0.1			9			As above, 15% fine sand, root holes, trace fine gravel
		Damp				10			As above
			0.1			11			
		Damp				12			As above, no gravel, black organic matter, low to medium plasticity
			0.3			13			As above, poor recovery
						14			
						15			
		Damp				16			As above
			0.1			17		SW-SC	Well Graded Sand with Clay, gray, 10% fines.
						18		CL	Lean Clay, gray-green, 5-10% fine sand, trace fine gravel, pockets of fine sand, low plasticity, black organic material.
						19			
			17.4			20			As above, brown, medium plasticity
		Moist				21			
			0.4			22		SW	Well Graded Sand, brown, <5% fines
			0.3				CL	Lean Clay, gray, <5% fine sand, medium plasticity	

Delta Consultants

Project No: C100018091

Client: ConocoPhillips

Well/Boring ID: B-2

Logged By: Nadine Periat

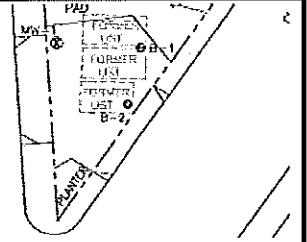
Location: 6201 Claremont Avenue, Oakland, CA

Page 2 of 2

Driller: Gregg Drilling and Testing

Date Drilled: 10/26/09

Location Map



Drilling Method: Direct Push (LAR)

Hole Diameter: 2"

Sampling Method: Continuous

Hole Depth: 26'

Casing Type: NA

Well Diameter: NA

Slot Size: NA

Well Depth: NA

Gravel Pack: NA

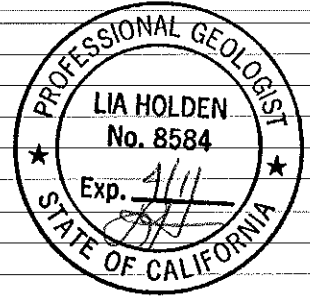
Casing Stickup: NA

Elevation

Northing

Easting

Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
		Moist	0.5		23		CL	Lean Clay continued
			37.2		24		CL	As above, brown, low plasticity
					25		CL	As above, gray, <5% fine sand
					26			Lean Clay with Sand, brown, 20-25 % fine sand, trace gravel, root holes, refusal at 26 feet bgs. Bottom of Boring at 26 feet bgs.
					27			
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			
					41			
					42			
					43			
					44			



Delta Consultants

Project No: C100018091

Client: ConocoPhillips

Well/Boring ID: B-3

Logged By: Nadine Periat

Location: 6201 Claremont Avenue, Oakland, CA

Page 1 of 2

Driller: Gregg Drilling and Testing

Date Drilled: 10/26/09

Location Map

Drilling Method: Direct Push (LAR)

Hole Diameter: 2"

See Attached Site Map

Sampling Method: Continuous

Hole Depth: 25'

Casing Type: NA

Well Diameter: NA

Slot Size: NA

Well Depth: NA

Gravel Pack: NA

Casing Stickup: NA

Elevation

Northing

Easting

▽ First water

Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
					1		SC	Asphalt
					2			Clayey Sand, brown, 25-30% fines, slight plasticity
					3			
					4			
		Damp			5			
					6			
					7			
		Damp	0		8		SP	Poorly Graded Sand with Gravel, brown-tan, 30% large gravel, <5% fines, no plasticity, gravel is angular, fractured granite. Poor recovery
					9			
					10			
		Damp	0.1		11		CL	Sandy Lean Clay, light brown, 25-30% well graded sand, 10% medium gravel, low plasticity
					12			
					13		CL	Lean Clay, brown, <10% sand, trace medium gravel, low plasticity.
					14		SC	Clayey Sand with Gravel, tan, 15% gravel, 30% clay
		Damp	0		15		CL	Lean Clay, brown, 10-15% fine sand, trace fine gravel, medium plasticity.
			0		16			As above
					17			
					18			
		Moist			19		CL	Lean Clay with Sand, brown, 20-25% fine sand, black, soft organic matter.
					20		SC	Clayey Sand, 30-40% fines, 5% fine gravel
			0		21		CL	Lean Clay with Sand, brown, 15-20% v. fine sand, medium plasticity, mottling, black organic material, root holes.
		Moist			22		CL	Sandy Lean Clay with Gravel, brown, 15-20% fine

Air knife to 7.5 feet bgs



Project No: C100018091
 Logged By: Nadine Periat
 Driller: Gregg Drilling and Testing
 Drilling Method: Direct Push (LAR)
 Sampling Method: Continuous
 Casing Type: NA
 Slot Size: NA
 Gravel Pack: NA

Client: ConocoPhillips
 Location: 6201 Claremont Avenue, Oakland, CA
 Date Drilled: 10/26/09
 Hole Diameter: 2"
 Hole Depth: 25'
 Well Diameter: NA
 Well Depth: NA
 Casing Stickup: NA

Well/Boring ID: B-3
 Page 2 of 2

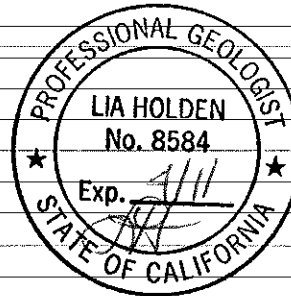
Location Map

See Attached Site Map

Elevation	Northing	Easting
-----------	----------	---------

▽ First Water

Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
						Recovery	Interval		
	▽	WET	0		23			CL	sand, 10-15% fine gravel, medium plasticity
								SC	Clayey Sand, brown, 15% clay
					24			GP-GC	Poorly Graded Gravel with Sand and Clay, brown, 20% well graded sand, 10% fines
			0		25			CL	Lean Clay, brown, <5% fine sand, medium plast.
									Bottom of Boring at 25 feet bgs
					26				
					27				
					28				
					29				
					30				
					31				
					32				
					33				
					34				
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					42				
					43				
					44				



ATTACHMENT D

Laboratory Analytical Report

Date of Report: 11/11/2009

Lia Holden

Delta Environmental
312 Piercy Rd
San Jose, CA 95138

RE: 0018
BC Work Order: 0914506
Invoice ID: B071083

Enclosed are the results of analyses for samples received by the laboratory on 10/29/2009. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Contact Person: Molly Meyers
Client Service Rep



Authorized Signature



Delta Environmental
312 Piercy Rd
San Jose, CA 95138

Project: 0018
Project Number: 4512450072
Project Manager: Lia Holden

Reported: 11/11/2009 15:26

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
0914506-01	COC Number:	---		Receive Date:	10/29/2009 08:15	Delivery Work Order:
	Project Number:	0018		Sampling Date:	10/26/2009 02:30	Global ID: T0600102231
	Sampling Location:	---		Sample Depth:	---	Location ID (FieldPoint): B-3
	Sampling Point:	B-3		Sample Matrix:	Water	Matrix: SO
	Sampled By:	DECJ				Sample QC Type (SACode): CS
						Cooler ID:
0914506-02	COC Number:	---		Receive Date:	10/29/2009 08:15	Delivery Work Order:
	Project Number:	0018		Sampling Date:	10/26/2009 02:11	Global ID: T0600102231
	Sampling Location:	---		Sample Depth:	---	Location ID (FieldPoint): B-3
	Sampling Point:	B-3@20		Sample Matrix:	Solids	Matrix: SO
	Sampled By:	DECJ				Sample QC Type (SACode): CS
						Cooler ID:
0914506-03	COC Number:	---		Receive Date:	10/29/2009 08:15	Delivery Work Order:
	Project Number:	0018		Sampling Date:	10/26/2009 09:08	Global ID: T0600102231
	Sampling Location:	---		Sample Depth:	---	Location ID (FieldPoint): B-1
	Sampling Point:	B-1@21.5		Sample Matrix:	Solids	Matrix: SO
	Sampled By:	DECJ				Sample QC Type (SACode): CS
						Cooler ID:
0914506-04	COC Number:	---		Receive Date:	10/29/2009 08:15	Delivery Work Order:
	Project Number:	0018		Sampling Date:	10/26/2009 10:05	Global ID: T0600102231
	Sampling Location:	---		Sample Depth:	---	Location ID (FieldPoint): B-2
	Sampling Point:	B-2@20		Sample Matrix:	Solids	Matrix: W
	Sampled By:	DECJ				Sample QC Type (SACode): CS
						Cooler ID:



Delta Environmental
312 Piercy Rd
San Jose, CA 95138

Project: 0018
Project Number: 4512450072
Project Manager: Lia Holden

Reported: 11/11/2009 15:26

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
0914506-05	COC Number:	---		Receive Date:	10/29/2009 08:15	Delivery Work Order:
	Project Number:	0018		Sampling Date:	10/26/2009 09:53	Global ID: T0600102231
	Sampling Location:	---		Sample Depth:	---	Location ID (FieldPoint): B-2
	Sampling Point:	B-2@10		Sample Matrix:	Solids	Matrix: SO
	Sampled By:	DECJ				Sample QC Type (SACode): CS Cooler ID:
0914506-06	COC Number:	---		Receive Date:	10/29/2009 08:15	Delivery Work Order:
	Project Number:	0018		Sampling Date:	10/26/2009 08:50	Global ID: T0600102231
	Sampling Location:	---		Sample Depth:	---	Location ID (FieldPoint): B-1
	Sampling Point:	B-1@10		Sample Matrix:	Solids	Matrix: SO
	Sampled By:	DECJ				Sample QC Type (SACode): CS Cooler ID:
0914506-07	COC Number:	---		Receive Date:	10/29/2009 08:15	Delivery Work Order:
	Project Number:	0018		Sampling Date:	10/27/2009 09:30	Global ID: T0600102231
	Sampling Location:	---		Sample Depth:	---	Location ID (FieldPoint): COMP ABCD
	Sampling Point:	COMP ABCD		Sample Matrix:	Solids	Matrix: SO
	Sampled By:	DECJ				Sample QC Type (SACode): CS Cooler ID:
0914506-08	COC Number:	---		Receive Date:	10/29/2009 08:15	Delivery Work Order:
	Project Number:	0018		Sampling Date:	10/26/2009 10:24	Global ID: T0600102231
	Sampling Location:	---		Sample Depth:	---	Location ID (FieldPoint): B-2
	Sampling Point:	B-2@26		Sample Matrix:	Solids	Matrix: SO
	Sampled By:	DECJ				Sample QC Type (SACode): CS Cooler ID:



Delta Environmental
312 Piercy Rd
San Jose, CA 95138

Project: 0018
Project Number: 4512450072
Project Manager: Lia Holden

Reported: 11/11/2009 15:26

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

0914506-09	COC Number: ---	Receive Date: 10/29/2009 08:15	Delivery Work Order:
	Project Number: 0018	Sampling Date: 10/29/2009 00:00	Global ID: T0600102231
	Sampling Location: ---	Sample Depth: ---	Location ID (FieldPoint): TB
	Sampling Point: TB	Sample Matrix: Water	Matrix: W
	Sampled By: DECJ		Sample QC Type (SACode): CS
			Cooler ID:



Delta Environmental
312 Piercy Rd
San Jose, CA 95138

Project: 0018
Project Number: 4512450072
Project Manager: Lia Holden

Reported: 11/11/2009 15:26

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0914506-01		Client Sample Name: 0018, B-3, 10/26/2009 2:30:00AM											
Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	ug/L	0.50	EPA-8260	10/30/09	10/30/09 12:44	JCC	MS-V10	1	BSJ1785	ND	Z1	
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	10/30/09	10/30/09 12:44	JCC	MS-V10	1	BSJ1785	ND	Z1	
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	10/30/09	10/30/09 12:44	JCC	MS-V10	1	BSJ1785	ND	Z1	
Ethylbenzene	ND	ug/L	0.50	EPA-8260	10/30/09	10/30/09 12:44	JCC	MS-V10	1	BSJ1785	ND	Z1	
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	10/30/09	10/30/09 12:44	JCC	MS-V10	1	BSJ1785	ND	Z1	
Toluene	ND	ug/L	0.50	EPA-8260	10/30/09	10/30/09 12:44	JCC	MS-V10	1	BSJ1785	ND	Z1	
Total Xylenes	ND	ug/L	1.0	EPA-8260	10/30/09	10/30/09 12:44	JCC	MS-V10	1	BSJ1785	ND	Z1	
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	10/30/09	10/30/09 12:44	JCC	MS-V10	1	BSJ1785	ND	Z1	
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	10/30/09	10/30/09 12:44	JCC	MS-V10	1	BSJ1785	ND	Z1	
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	10/30/09	10/30/09 12:44	JCC	MS-V10	1	BSJ1785	ND	Z1	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/M S	10/30/09	10/30/09 12:44	JCC	MS-V10	1	BSJ1785	ND	Z1	
1,2-Dichloroethane-d4 (Surrogate)	107	%	76 - 114 (LCL - UCL)	EPA-8260	10/30/09	10/30/09 12:44	JCC	MS-V10	1	BSJ1785			
Toluene-d8 (Surrogate)	85.8	%	88 - 110 (LCL - UCL)	EPA-8260	10/30/09	10/30/09 12:44	JCC	MS-V10	1	BSJ1785		S09	
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260	10/30/09	10/30/09 12:44	JCC	MS-V10	1	BSJ1785			

Delta Environmental
312 Piercy Rd
San Jose, CA 95138

Project: 0018
Project Number: 4512450072
Project Manager: Lia Holden

Reported: 11/11/2009 15:26

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0914506-02		Client Sample Name: 0018, B-3@20, 10/26/2009 2:11:00AM										
Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 13:47	JSK	MS-V3	1	BSJ1957	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 13:47	JSK	MS-V3	1	BSJ1957	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 13:47	JSK	MS-V3	1	BSJ1957	ND	
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 13:47	JSK	MS-V3	1	BSJ1957	ND	
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 13:47	JSK	MS-V3	1	BSJ1957	ND	
Toluene	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 13:47	JSK	MS-V3	1	BSJ1957	ND	
Total Xylenes	ND	mg/kg	0.010	EPA-8260	10/29/09	10/30/09 13:47	JSK	MS-V3	1	BSJ1957	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 13:47	JSK	MS-V3	1	BSJ1957	ND	
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 13:47	JSK	MS-V3	1	BSJ1957	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 13:47	JSK	MS-V3	1	BSJ1957	ND	
Total Purgeable Petroleum Hydrocarbons	ND	mg/kg	0.20	Luft-GC/MS	10/29/09	10/30/09 13:47	JSK	MS-V3	1	BSJ1957	ND	
1,2-Dichloroethane-d4 (Surrogate)	105	%	70 - 121 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 13:47	JSK	MS-V3	1	BSJ1957		
Toluene-d8 (Surrogate)	92.7	%	81 - 117 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 13:47	JSK	MS-V3	1	BSJ1957		
4-Bromofluorobenzene (Surrogate)	94.8	%	74 - 121 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 13:47	JSK	MS-V3	1	BSJ1957		



Delta Environmental
312 Piercy Rd
San Jose, CA 95138

Project: 0018
Project Number: 4512450072
Project Manager: Lia Holden

Reported: 11/11/2009 15:26

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0914506-03		Client Sample Name: 0018, B-1@21.5, 10/26/2009 9:08:00AM										
Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 14:13	JSK	MS-V3	1	BSJ1957	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 14:13	JSK	MS-V3	1	BSJ1957	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 14:13	JSK	MS-V3	1	BSJ1957	ND	
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 14:13	JSK	MS-V3	1	BSJ1957	ND	
Methyl t-butyl ether	0.0090	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 14:13	JSK	MS-V3	1	BSJ1957	ND	
Toluene	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 14:13	JSK	MS-V3	1	BSJ1957	ND	
Total Xylenes	ND	mg/kg	0.010	EPA-8260	10/29/09	10/30/09 14:13	JSK	MS-V3	1	BSJ1957	ND	
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	10/29/09	10/30/09 14:13	JSK	MS-V3	1	BSJ1957	ND	
Total Purgeable Petroleum Hydrocarbons	8.9	mg/kg	2.0	Luft-GC/MS	10/30/09	10/31/09 02:39	JSK	MS-V3	10	BSJ1957	ND	A01
1,2-Dichloroethane-d4 (Surrogate)	96.6	%	70 - 121 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 14:13	JSK	MS-V3	1	BSJ1957		
1,2-Dichloroethane-d4 (Surrogate)	105	%	70 - 121 (LCL - UCL)	EPA-8260	10/30/09	10/31/09 02:39	JSK	MS-V3	10	BSJ1957		
Toluene-d8 (Surrogate)	91.5	%	81 - 117 (LCL - UCL)	EPA-8260	10/30/09	10/31/09 02:39	JSK	MS-V3	10	BSJ1957		
Toluene-d8 (Surrogate)	91.2	%	81 - 117 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 14:13	JSK	MS-V3	1	BSJ1957		
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 14:13	JSK	MS-V3	1	BSJ1957		
4-Bromofluorobenzene (Surrogate)	94.4	%	74 - 121 (LCL - UCL)	EPA-8260	10/30/09	10/31/09 02:39	JSK	MS-V3	10	BSJ1957		



Delta Environmental
312 Piercy Rd
San Jose, CA 95138

Project: 0018
Project Number: 4512450072
Project Manager: Lia Holden

Reported: 11/11/2009 15:26

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 0914506-03		Client Sample Name: 0018, B-1@21.5, 10/26/2009 9:08:00AM										
Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	2.8	mg/kg	2.0	Luft/TPHd	11/09/09	11/10/09 23:22	MLR	GC-5	1.007	BSK0645	ND	
Tetracosane (Surrogate)	58.9	%	34 - 136 (LCL - UCL)	Luft/TPHd	11/09/09	11/10/09 23:22	MLR	GC-5	1.007	BSK0645		



Delta Environmental
312 Piercy Rd
San Jose, CA 95138

Project: 0018
Project Number: 4512450072
Project Manager: Lia Holden

Reported: 11/11/2009 15:26

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0914506-04		Client Sample Name:	0018, B-2@20, 10/26/2009 10:05:00AM									
Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.050	EPA-8260	10/29/09	10/30/09 14:39	JSK	MS-V3	10	BSJ1957	ND	A01	
1,2-Dibromoethane	ND	mg/kg	0.050	EPA-8260	10/29/09	10/30/09 14:39	JSK	MS-V3	10	BSJ1957	ND	A01	
1,2-Dichloroethane	ND	mg/kg	0.050	EPA-8260	10/29/09	10/30/09 14:39	JSK	MS-V3	10	BSJ1957	ND	A01	
Ethylbenzene	ND	mg/kg	0.050	EPA-8260	10/29/09	10/30/09 14:39	JSK	MS-V3	10	BSJ1957	ND	A01	
Methyl t-butyl ether	ND	mg/kg	0.050	EPA-8260	10/29/09	10/30/09 14:39	JSK	MS-V3	10	BSJ1957	ND	A01	
Toluene	ND	mg/kg	0.050	EPA-8260	10/29/09	10/30/09 14:39	JSK	MS-V3	10	BSJ1957	ND	A01	
Total Xylenes	ND	mg/kg	0.10	EPA-8260	10/29/09	10/30/09 14:39	JSK	MS-V3	10	BSJ1957	ND	A01	
t-Butyl alcohol	ND	mg/kg	0.50	EPA-8260	10/29/09	10/30/09 14:39	JSK	MS-V3	10	BSJ1957	ND	A01	
Total Purgeable Petroleum Hydrocarbons	18	mg/kg	2.0	Luft-GC/MS	10/30/09	10/31/09 03:05	JSK	MS-V3	10	BSJ1957	ND	A01	
1,2-Dichloroethane-d4 (Surrogate)	96.2	%	70 - 121 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 14:39	JSK	MS-V3	10	BSJ1957			
1,2-Dichloroethane-d4 (Surrogate)	94.1	%	70 - 121 (LCL - UCL)	EPA-8260	10/30/09	10/31/09 03:05	JSK	MS-V3	10	BSJ1957			
Toluene-d8 (Surrogate)	92.6	%	81 - 117 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 14:39	JSK	MS-V3	10	BSJ1957			
Toluene-d8 (Surrogate)	91.4	%	81 - 117 (LCL - UCL)	EPA-8260	10/30/09	10/31/09 03:05	JSK	MS-V3	10	BSJ1957			
4-Bromofluorobenzene (Surrogate)	99.2	%	74 - 121 (LCL - UCL)	EPA-8260	10/30/09	10/31/09 03:05	JSK	MS-V3	10	BSJ1957			
4-Bromofluorobenzene (Surrogate)	103	%	74 - 121 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 14:39	JSK	MS-V3	10	BSJ1957			



Delta Environmental
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San Jose, CA 95138

Project: 0018
Project Number: 4512450072
Project Manager: Lia Holden

Reported: 11/11/2009 15:26

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 0914506-04		Client Sample Name: 0018, B-2@20, 10/26/2009 10:05:00AM										
Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	2.0	mg/kg	2.0	Luft/TPHd	11/09/09	11/10/09 23:36	MLR	GC-5	0.997	BSK0645	ND	
Tetracosane (Surrogate)	69.7	%	34 - 136 (LCL - UCL)	Luft/TPHd	11/09/09	11/10/09 23:36	MLR	GC-5	0.997	BSK0645		



Delta Environmental
312 Piercy Rd
San Jose, CA 95138

Project: 0018
Project Number: 4512450072
Project Manager: Lia Holden

Reported: 11/11/2009 15:26

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0914506-05		Client Sample Name: 0018, B-2@10, 10/26/2009 9:53:00AM										
Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:05	JSK	MS-V3	1	BSJ1957	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:05	JSK	MS-V3	1	BSJ1957	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:05	JSK	MS-V3	1	BSJ1957	ND	
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:05	JSK	MS-V3	1	BSJ1957	ND	
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:05	JSK	MS-V3	1	BSJ1957	ND	
Toluene	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:05	JSK	MS-V3	1	BSJ1957	ND	
Total Xylenes	ND	mg/kg	0.010	EPA-8260	10/29/09	10/30/09 15:05	JSK	MS-V3	1	BSJ1957	ND	
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	10/29/09	10/30/09 15:05	JSK	MS-V3	1	BSJ1957	ND	
Total Purgeable Petroleum Hydrocarbons	ND	mg/kg	0.20	Luft-GC/MS	10/29/09	10/30/09 15:05	JSK	MS-V3	1	BSJ1957	ND	
1,2-Dichloroethane-d4 (Surrogate)	106	%	70 - 121 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 15:05	JSK	MS-V3	1	BSJ1957		
Toluene-d8 (Surrogate)	89.8	%	81 - 117 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 15:05	JSK	MS-V3	1	BSJ1957		
4-Bromofluorobenzene (Surrogate)	97.0	%	74 - 121 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 15:05	JSK	MS-V3	1	BSJ1957		



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San Jose, CA 95138

Project: 0018
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Project Manager: Lia Holden

Reported: 11/11/2009 15:26

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 0914506-05	Client Sample Name: 0018, B-2@10, 10/26/2009 9:53:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	11/09/09	11/10/09 23:51	MLR	GC-5	1.014	BSK0645	ND	
Tetracosane (Surrogate)	57.2	%	34 - 136 (LCL - UCL)	Luft/TPHd	11/09/09	11/10/09 23:51	MLR	GC-5	1.014	BSK0645		



Delta Environmental
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San Jose, CA 95138

Project: 0018
Project Number: 4512450072
Project Manager: Lia Holden

Reported: 11/11/2009 15:26

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0914506-06		Client Sample Name:	0018, B-1@10, 10/26/2009 8:50:00AM									
Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:31	JSK	MS-V3	1	BSJ1957	ND		
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:31	JSK	MS-V3	1	BSJ1957	ND		
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:31	JSK	MS-V3	1	BSJ1957	ND		
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:31	JSK	MS-V3	1	BSJ1957	ND		
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:31	JSK	MS-V3	1	BSJ1957	ND		
Toluene	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:31	JSK	MS-V3	1	BSJ1957	ND		
Total Xylenes	ND	mg/kg	0.010	EPA-8260	10/29/09	10/30/09 15:31	JSK	MS-V3	1	BSJ1957	ND		
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	10/29/09	10/30/09 15:31	JSK	MS-V3	1	BSJ1957	ND		
Total Purgeable Petroleum Hydrocarbons	ND	mg/kg	0.20	Luft-GC/MS	10/29/09	10/30/09 15:31	JSK	MS-V3	1	BSJ1957	ND		
1,2-Dichloroethane-d4 (Surrogate)	97.2	%	70 - 121 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 15:31	JSK	MS-V3	1	BSJ1957			
Toluene-d8 (Surrogate)	93.4	%	81 - 117 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 15:31	JSK	MS-V3	1	BSJ1957			
4-Bromofluorobenzene (Surrogate)	98.8	%	74 - 121 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 15:31	JSK	MS-V3	1	BSJ1957			



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Project: 0018
Project Number: 4512450072
Project Manager: Lia Holden

Reported: 11/11/2009 15:26

Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 0914506-06	Client Sample Name: 0018, B-1@10, 10/26/2009 8:50:00AM
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Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	2.4	mg/kg	2.0	Luft/TPHd	11/09/09	11/11/09 00:05	MLR	GC-5	0.993	BSK0645	ND	
Tetracosane (Surrogate)	67.9	%	34 - 136 (LCL - UCL)	Luft/TPHd	11/09/09	11/11/09 00:05	MLR	GC-5	0.993	BSK0645		



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Project: 0018
Project Number: 4512450072
Project Manager: Lia Holden

Reported: 11/11/2009 15:26

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0914506-07		Client Sample Name:	0018, COMP ABCD, 10/27/2009 9:30:00AM									
Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:57	JSK	MS-V3	1	BSJ1957	ND		
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:57	JSK	MS-V3	1	BSJ1957	ND		
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:57	JSK	MS-V3	1	BSJ1957	ND		
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:57	JSK	MS-V3	1	BSJ1957	ND		
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:57	JSK	MS-V3	1	BSJ1957	ND		
Toluene	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:57	JSK	MS-V3	1	BSJ1957	ND		
Total Xylenes	ND	mg/kg	0.010	EPA-8260	10/29/09	10/30/09 15:57	JSK	MS-V3	1	BSJ1957	ND		
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:57	JSK	MS-V3	1	BSJ1957	ND		
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	10/29/09	10/30/09 15:57	JSK	MS-V3	1	BSJ1957	ND		
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:57	JSK	MS-V3	1	BSJ1957	ND		
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 15:57	JSK	MS-V3	1	BSJ1957	ND		
Total Purgeable Petroleum Hydrocarbons	ND	mg/kg	0.20	Luft-GC/MS	10/29/09	10/30/09 15:57	JSK	MS-V3	1	BSJ1957	ND		
1,2-Dichloroethane-d4 (Surrogate)	93.1	%	70 - 121 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 15:57	JSK	MS-V3	1	BSJ1957			
Toluene-d8 (Surrogate)	93.7	%	81 - 117 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 15:57	JSK	MS-V3	1	BSJ1957			
4-Bromofluorobenzene (Surrogate)	100	%	74 - 121 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 15:57	JSK	MS-V3	1	BSJ1957			



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Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 0914506-07	Client Sample Name: 0018, COMP ABCD, 10/27/2009 9:30:00AM
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Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	11/09/09	11/11/09 00:20	MLR	GC-5	1.010	BSK0645	ND	
Tetracosane (Surrogate)	59.7	%	34 - 136 (LCL - UCL)	Luft/TPHd	11/09/09	11/11/09 00:20	MLR	GC-5	1.010	BSK0645		



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Reported: 11/11/2009 15:26

Total Concentrations (TTLIC)

BCL Sample ID: 0914506-07	Client Sample Name: 0018, COMP ABCD, 10/27/2009 9:30:00AM
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Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Lead	5.4	mg/kg	2.5	EPA-6010 B	11/03/09	11/03/09 14:01	ARD	PE-OP1	0.990	BSK0114	ND	



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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0914506-08		Client Sample Name:	0018, B-2@26, 10/26/2009 10:24:00AM									
Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 16:23	JSK	MS-V3	1	BSJ1957	ND		
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 16:23	JSK	MS-V3	1	BSJ1957	ND		
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 16:23	JSK	MS-V3	1	BSJ1957	ND		
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 16:23	JSK	MS-V3	1	BSJ1957	ND		
Methyl t-butyl ether	0.033	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 16:23	JSK	MS-V3	1	BSJ1957	ND		
Toluene	ND	mg/kg	0.0050	EPA-8260	10/29/09	10/30/09 16:23	JSK	MS-V3	1	BSJ1957	ND		
Total Xylenes	ND	mg/kg	0.010	EPA-8260	10/29/09	10/30/09 16:23	JSK	MS-V3	1	BSJ1957	ND		
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	10/29/09	10/30/09 16:23	JSK	MS-V3	1	BSJ1957	ND		
Total Purgeable Petroleum Hydrocarbons	2.0	mg/kg	0.20	Luft-GC/MS	10/29/09	10/30/09 16:23	JSK	MS-V3	1	BSJ1957	ND		
1,2-Dichloroethane-d4 (Surrogate)	99.9	%	70 - 121 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 16:23	JSK	MS-V3	1	BSJ1957			
Toluene-d8 (Surrogate)	90.8	%	81 - 117 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 16:23	JSK	MS-V3	1	BSJ1957			
4-Bromofluorobenzene (Surrogate)	99.4	%	74 - 121 (LCL - UCL)	EPA-8260	10/29/09	10/30/09 16:23	JSK	MS-V3	1	BSJ1957			



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Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 0914506-08		Client Sample Name: 0018, B-2@26, 10/26/2009 10:24:00AM										
Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	11/09/09	11/11/09 00:34	MLR	GC-5	0.987	BSK0645	ND	
Tetracosane (Surrogate)	68.3	%	34 - 136 (LCL - UCL)	Luft/TPHd	11/09/09	11/11/09 00:34	MLR	GC-5	0.987	BSK0645		



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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0914506-09		Client Sample Name:	0018, TB, 10/29/2009 12:00:00AM									
Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	ug/L	0.50	EPA-8260	11/03/09	11/04/09 03:10	JCC	MS-V10	1	BSK0146	ND		
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	11/03/09	11/04/09 03:10	JCC	MS-V10	1	BSK0146	ND		
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	11/03/09	11/04/09 03:10	JCC	MS-V10	1	BSK0146	ND		
Ethylbenzene	ND	ug/L	0.50	EPA-8260	11/03/09	11/04/09 03:10	JCC	MS-V10	1	BSK0146	ND		
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	11/03/09	11/04/09 03:10	JCC	MS-V10	1	BSK0146	ND		
Toluene	ND	ug/L	0.50	EPA-8260	11/03/09	11/04/09 03:10	JCC	MS-V10	1	BSK0146	ND		
Total Xylenes	ND	ug/L	1.0	EPA-8260	11/03/09	11/04/09 03:10	JCC	MS-V10	1	BSK0146	ND		
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	11/03/09	11/04/09 03:10	JCC	MS-V10	1	BSK0146	ND		
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	11/03/09	11/04/09 03:10	JCC	MS-V10	1	BSK0146	ND		
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	11/03/09	11/04/09 03:10	JCC	MS-V10	1	BSK0146	ND		
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	11/03/09	11/04/09 03:10	JCC	MS-V10	1	BSK0146	ND		
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)	EPA-8260	11/03/09	11/04/09 03:10	JCC	MS-V10	1	BSK0146			
Toluene-d8 (Surrogate)	92.8	%	88 - 110 (LCL - UCL)	EPA-8260	11/03/09	11/04/09 03:10	JCC	MS-V10	1	BSK0146			
4-Bromofluorobenzene (Surrogate)	98.1	%	86 - 115 (LCL - UCL)	EPA-8260	11/03/09	11/04/09 03:10	JCC	MS-V10	1	BSK0146			



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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Source Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Benzene	BSJ1785	Matrix Spike	0913673-40	ND	25.590	25.000	ug/L		102		70 - 130	
		Matrix Spike Duplicate	0913673-40	ND	26.350	25.000	ug/L	2.9	105	20	70 - 130	
Toluene	BSJ1785	Matrix Spike	0913673-40	ND	26.590	25.000	ug/L		106		70 - 130	
		Matrix Spike Duplicate	0913673-40	ND	27.730	25.000	ug/L	4.2	111	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BSJ1785	Matrix Spike	0913673-40	ND	9.3500	10.000	ug/L		93.5		76 - 114	
		Matrix Spike Duplicate	0913673-40	ND	9.2900	10.000	ug/L		92.9		76 - 114	
Toluene-d8 (Surrogate)	BSJ1785	Matrix Spike	0913673-40	ND	9.8600	10.000	ug/L		98.6		88 - 110	
		Matrix Spike Duplicate	0913673-40	ND	9.8500	10.000	ug/L		98.5		88 - 110	
4-Bromofluorobenzene (Surrogate)	BSJ1785	Matrix Spike	0913673-40	ND	10.230	10.000	ug/L		102		86 - 115	
		Matrix Spike Duplicate	0913673-40	ND	9.8900	10.000	ug/L		98.9		86 - 115	
Benzene	BSJ1957	Matrix Spike	0913673-50	ND	0.13150	0.12500	mg/kg		105		70 - 130	
		Matrix Spike Duplicate	0913673-50	ND	0.12867	0.12500	mg/kg	2.2	103	20	70 - 130	
Toluene	BSJ1957	Matrix Spike	0913673-50	ND	0.11199	0.12500	mg/kg		89.6		70 - 130	
		Matrix Spike Duplicate	0913673-50	ND	0.11260	0.12500	mg/kg	0.5	90.1	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BSJ1957	Matrix Spike	0913673-50	ND	0.047301	0.050000	mg/kg		94.6		70 - 121	
		Matrix Spike Duplicate	0913673-50	ND	0.046899	0.050000	mg/kg		93.8		70 - 121	
Toluene-d8 (Surrogate)	BSJ1957	Matrix Spike	0913673-50	ND	0.045981	0.050000	mg/kg		92.0		81 - 117	
		Matrix Spike Duplicate	0913673-50	ND	0.046275	0.050000	mg/kg		92.6		81 - 117	
4-Bromofluorobenzene (Surrogate)	BSJ1957	Matrix Spike	0913673-50	ND	0.050270	0.050000	mg/kg		101		74 - 121	
		Matrix Spike Duplicate	0913673-50	ND	0.049972	0.050000	mg/kg		99.9		74 - 121	
Benzene	BSK0146	Matrix Spike	0914558-01	ND	28.340	25.000	ug/L		113		70 - 130	
		Matrix Spike Duplicate	0914558-01	ND	25.370	25.000	ug/L	11.1	101	20	70 - 130	
Toluene	BSK0146	Matrix Spike	0914558-01	ND	27.980	25.000	ug/L		112		70 - 130	
		Matrix Spike Duplicate	0914558-01	ND	25.870	25.000	ug/L	7.8	103	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BSK0146	Matrix Spike	0914558-01	ND	10.440	10.000	ug/L		104		76 - 114	
		Matrix Spike Duplicate	0914558-01	ND	10.150	10.000	ug/L		102		76 - 114	



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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Toluene-d8 (Surrogate)	BSK0146	Matrix Spike	0914558-01	ND	9.7800	10.000	ug/L		97.8		88 - 110	
		Matrix Spike Duplicate	0914558-01	ND	9.8900	10.000	ug/L		98.9		88 - 110	
4-Bromofluorobenzene (Surrogate)	BSK0146	Matrix Spike	0914558-01	ND	9.7800	10.000	ug/L		97.8		86 - 115	
		Matrix Spike Duplicate	0914558-01	ND	9.9100	10.000	ug/L		99.1		86 - 115	

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Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Diesel Range Organics (C12 - C24)	BSK0645	Matrix Spike	0914506-03	2.7628	9.4960	16.779	mg/kg		40.1		40 - 137	
		Matrix Spike Duplicate	0914506-03	2.7628	9.4782	16.892	mg/kg	0.9	39.8	30	40 - 137	Q03
Tetracosane (Surrogate)	BSK0645	Matrix Spike	0914506-03	ND	0.47299	0.67114	mg/kg		70.5		34 - 136	
		Matrix Spike Duplicate	0914506-03	ND	0.46135	0.67568	mg/kg		68.3		34 - 136	



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Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits	
										RPD	Percent Recovery
Lead	BSK0114	Duplicate	0914502-01	5.0487	4.9792		mg/kg	1.4		20	
		Matrix Spike	0914502-01	5.0487	97.593	97.087	mg/kg		95.3		75 - 125
		Matrix Spike Duplicate	0914502-01	5.0487	97.938	97.087	mg/kg	0.4	95.7	20	75 - 125



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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Benzene	BSJ1785	BSJ1785-BS1	LCS	25.400	25.000	0.50	ug/L	102		70 - 130		
Toluene	BSJ1785	BSJ1785-BS1	LCS	26.600	25.000	0.50	ug/L	106		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSJ1785	BSJ1785-BS1	LCS	9.5000	10.000		ug/L	95.0		76 - 114		
Toluene-d8 (Surrogate)	BSJ1785	BSJ1785-BS1	LCS	9.9500	10.000		ug/L	99.5		88 - 110		
4-Bromofluorobenzene (Surrogate)	BSJ1785	BSJ1785-BS1	LCS	10.230	10.000		ug/L	102		86 - 115		
Benzene	BSJ1957	BSJ1957-BS1	LCS	0.13129	0.12500	0.0050	mg/kg	105		70 - 130		
Toluene	BSJ1957	BSJ1957-BS1	LCS	0.11154	0.12500	0.0050	mg/kg	89.2		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSJ1957	BSJ1957-BS1	LCS	0.049829	0.050000		mg/kg	99.7		70 - 121		
Toluene-d8 (Surrogate)	BSJ1957	BSJ1957-BS1	LCS	0.046059	0.050000		mg/kg	92.1		81 - 117		
4-Bromofluorobenzene (Surrogate)	BSJ1957	BSJ1957-BS1	LCS	0.047801	0.050000		mg/kg	95.6		74 - 121		
Benzene	BSK0146	BSK0146-BS1	LCS	27.420	25.000	0.50	ug/L	110		70 - 130		
Toluene	BSK0146	BSK0146-BS1	LCS	27.360	25.000	0.50	ug/L	109		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSK0146	BSK0146-BS1	LCS	10.350	10.000		ug/L	104		76 - 114		
Toluene-d8 (Surrogate)	BSK0146	BSK0146-BS1	LCS	9.9900	10.000		ug/L	99.9		88 - 110		
4-Bromofluorobenzene (Surrogate)	BSK0146	BSK0146-BS1	LCS	9.9700	10.000		ug/L	99.7		86 - 115		

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Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Diesel Range Organics (C12 - C24)	BSK0645	BSK0645-BS1	LCS	11.655	16.393	2.0	mg/kg	71.1		50 - 136		
Tetracosane (Surrogate)	BSK0645	BSK0645-BS1	LCS	0.53582	0.65574		mg/kg	81.7		34 - 136		



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Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Lead	BSK0114	BSK0114-BS1	LCS	108.53	100.00	2.5	mg/kg	109		75 - 125		



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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BSJ1785	BSJ1785-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BSJ1785	BSJ1785-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BSJ1785	BSJ1785-BLK1	ND	ug/L	0.50		
Ethylbenzene	BSJ1785	BSJ1785-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BSJ1785	BSJ1785-BLK1	ND	ug/L	0.50		
Toluene	BSJ1785	BSJ1785-BLK1	ND	ug/L	0.50		
Total Xylenes	BSJ1785	BSJ1785-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BSJ1785	BSJ1785-BLK1	ND	ug/L	0.50		
Diisopropyl ether	BSJ1785	BSJ1785-BLK1	ND	ug/L	0.50		
Ethyl t-butyl ether	BSJ1785	BSJ1785-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BSJ1785	BSJ1785-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BSJ1785	BSJ1785-BLK1	95.3	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BSJ1785	BSJ1785-BLK1	96.4	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BSJ1785	BSJ1785-BLK1	102	%	86 - 115 (LCL - UCL)		
Benzene	BSJ1957	BSJ1957-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BSJ1957	BSJ1957-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BSJ1957	BSJ1957-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BSJ1957	BSJ1957-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BSJ1957	BSJ1957-BLK1	ND	mg/kg	0.0050		
Toluene	BSJ1957	BSJ1957-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BSJ1957	BSJ1957-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BSJ1957	BSJ1957-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BSJ1957	BSJ1957-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BSJ1957	BSJ1957-BLK1	ND	mg/kg	0.0050		



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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Ethyl t-butyl ether	BSJ1957	BSJ1957-BLK1	ND	mg/kg	0.0050		
Total Purgeable Petroleum Hydrocarbons	BSJ1957	BSJ1957-BLK1	ND	mg/kg	0.20		
1,2-Dichloroethane-d4 (Surrogate)	BSJ1957	BSJ1957-BLK1	92.8	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BSJ1957	BSJ1957-BLK1	92.6	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BSJ1957	BSJ1957-BLK1	102	%	74 - 121 (LCL - UCL)		
Benzene	BSK0146	BSK0146-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BSK0146	BSK0146-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BSK0146	BSK0146-BLK1	ND	ug/L	0.50		
Ethylbenzene	BSK0146	BSK0146-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BSK0146	BSK0146-BLK1	ND	ug/L	0.50		
Toluene	BSK0146	BSK0146-BLK1	ND	ug/L	0.50		
Total Xylenes	BSK0146	BSK0146-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BSK0146	BSK0146-BLK1	ND	ug/L	0.50		
Diisopropyl ether	BSK0146	BSK0146-BLK1	ND	ug/L	0.50		
Ethyl t-butyl ether	BSK0146	BSK0146-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BSK0146	BSK0146-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BSK0146	BSK0146-BLK1	104	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BSK0146	BSK0146-BLK1	98.6	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BSK0146	BSK0146-BLK1	101	%	86 - 115 (LCL - UCL)		

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Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Diesel Range Organics (C12 - C24)	BSK0645	BSK0645-BLK1	ND	mg/kg	2.0		
Tetracosane (Surrogate)	BSK0645	BSK0645-BLK1	77.5	%	34 - 136 (LCL - UCL)		

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Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Lead	BSK0114	BSK0114-BLK1	ND	mg/kg	2.5		



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Notes And Definitions

MDL Method Detection Limit
ND Analyte Not Detected at or above the reporting limit
PQL Practical Quantitation Limit
RPD Relative Percent Difference
A01 PQL's and MDL's are raised due to sample dilution.
Q03 Matrix spike recovery(s) is(are) not within the control limits.
S09 The surrogate recovery on the sample for this compound was not within the control limits.
Z1 Composite of 2 voa's

Submission #: 09-14506

SHIPPING INFORMATION

Federal Express UPS Hand Delivery BC Lab Field Service Other (Specify) GSO

SHIPPING CONTAINER

Ice Chest None Box Other (Specify)

Refrigerant: Ice Blue Ice None Other Comments:

Custody Seals Ice Chest Containers None Intact? Yes No Intact? Yes No Comments:

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

COC Received YES NO

Emissivity: .95 Container: PtAm Thermometer ID: #80 Temperature: A 3.7 °C / C 3.4 °C

Date/Time 10-29-09 0825 Analyst Init BLT

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc. Handwritten 'A' and 'AI' are present in some cells.

Comments: Sample Numbering Completed By: JKW Date/Time: 10/29/09 1802

= Actual / C = Corrected