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8:48 am, Apr 16, 2010

Alameda County
Environmental Health

April 15, 2010

Re: Well Installation Report
Shell-Branded Service Station
4895 Hacienda Drive
Dublin, California

Dear Mr. Jerry Wickham:

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

Sincerely,
Shell Oil Products US

A handwritten signature in black ink, appearing to read "Denis L. Brown", with a long horizontal flourish extending to the right.

Denis L. Brown
Project Manager

April 15, 2010
Project SCA4895H1D
SAP# 165112

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

Subject: Well Installation Report
Shell-branded Service Station
4895 Hacienda Drive
Dublin, California



Dear Mr. Wickham,

On behalf of Equilon Enterprises LLC *dba* Shell Oil Products US (Shell), Delta Consultants (Delta) has prepared the following *Well Installation Report* to document the installation of six groundwater monitoring wells (MW-1 to MW-6) and at the site referenced above. The wells were installed in general accordance with Delta's *Soil and Groundwater Investigation Work Plan* dated September 28, 2009 and the conditions specified in the letter to Shell from Alameda County Environmental Health (ACEH) dated November 17, 2009. A copy of the ACEH letter is included as Attachment A.

SITE DESCRIPTION

The subject property is located on the northeast corner at the intersection of Hacienda Drive and Hacienda Crossings/Martinelli Way in Dublin, California (Figure 1). The property is currently an active Shell-branded service station. The station facilities include a convenience store, a car wash, two underground storage tanks (USTs) and a large canopy covering two dispenser islands with six total dispenser stations (Figure 2).

FIELD ACTIVITIES

On February 16, 17 and 18, 2010, groundwater monitoring wells MW-1 through MW-6, were installed on-site (Figure 2). Due to utility conflicts, Well MW-4 was moved to the location proposed for Well MW-3. As requested by ACEH, Well MW-3 was moved to the planter box in the southwest corner of the property. Per an additional request from the ACEH, the boring for Well MW-5 was drilled to a total depth of approximately 60 feet below ground surface (bgs). Unfortunately, due to specific drilling equipment requirements and limited availability, Delta was not able to drill the boring for Well MW-3 to a minimal depth of 50 feet bgs as requested by ACEH.

Prior to field activities, Delta obtained a well construction permit from the Zone 7 Water Agency (Attachment B). The proposed well locations were marked and Underground Service Alert was contacted a minimum of 48 hours prior to field mobilization to notify subscribers of our proposed activities prior to drilling. In addition, Delta had a private subsurface utility locator perform a geophysical survey of the proposed well locations.

GROUNDWATER MONITORING WELL INSTALLATIONS

Prior to drilling activities, the proposed well locations were excavated by air-knife and water-knife to a minimum depth of 5 feet bgs to avoid potential damage to subsurface utilities. The boreholes for monitoring wells MW-1 through MW-6 were drilled to total depths of 25 or 30 feet bgs using 10-inch diameter hollow-stem auger drilling equipment. Prior to drilling the borehole for well MW-5 with the hollow-stem auger, direct-push drilling equipment was utilized to advance a boring in the location of MW-5 to approximately 60 feet bgs for the collection of depth-discrete groundwater samples.

Wells MW-1, MW-2 and MW-5 were each installed at a depth of 30 feet bgs; wells MW-3 and MW-6 were installed at a depth of 25 feet bgs, and well MW-4 was installed at a depth of 27 feet bgs. The wells were constructed using 4-inch diameter, Schedule 40, polyvinylchloride (PVC) casing with 10 to 20 feet of 0.010-inch machine slotted well screen. In the annular space of the wells, a sand pack of #2/12 sand was placed from the bottom of the boring to approximately 2 feet above the top of the screened interval. A sanitary seal consisting of hydrated, granular bentonite and cement grout was placed from the top of the sand pack to within approximately one foot of the surface. Upon completion, the top of each well was secured with a flush-mounted, traffic-rated vault box anchored in concrete.

All down-hole drilling and sampling equipment was cleaned prior to use and between boring locations. All soils, water and debris generated during the well installation activities were stored onsite in Department of Transportation (DOT) rated 55-gallon drums pending characterization and appropriate disposal. Investigation-derived waste has been removed from the site and disposed of.

SOIL DATA

Soils encountered in the borings for wells MW-1 through MW-6 consisted of low permeability clay from the surface to approximately 20 feet bgs. Underlying the clay, higher permeability sandy clay, clayey sand and sand were encountered between approximately 20 and 30 feet bgs. Beneath the permeable sand horizon, clay was observed in most of the boreholes to the total depth of the boring. In the deepest boring (MW-5), permeable horizons of clayey sand and sand were encountered at depths of 40 to 43 feet bgs, 45 to 48 feet bgs and 55 feet bgs to total depth. Boring logs with well construction details are included as Attachment C, and cross-sections are presented on Figures 3 and 4. A sieve analysis of selected samples is provided as Attachment D.

All work was performed by a Delta staff engineer under the direction of a California Professional Geologist (PG). Soil samples were collected continuously for lithologic characterization, and logged by Delta field staff in accordance with the Unified Soil Classifications System (USCS). Photo-ionization detector (PID) readings were taken of the soil at approximate 5-foot depth intervals and recorded on the boring logs (Attachment C). At least one soil sample from each boring was submitted for laboratory analysis. Selected soil samples were retained from the permeable horizons, and in some cases from the bottom of the boreholes.

Soil samples were submitted to a California state-certified laboratory and analyzed for the presence total petroleum hydrocarbons as diesel (TPH-d) by Environmental Protection Agency (EPA) Method 8015M, and for TPH as gasoline (TPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), methyl tert-butyl ether (MTBE) di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), tert-butyl alcohol (TBA), ethanol, 1,2-dichloroethane (1,2-DCA) and 1,2-dibromoethane (EDB) by EPA Method 8260B.

MTBE was detected in soil collected from approximately 20 feet bgs in MW-2 and from approximately 24 feet bgs in MW-5 at concentrations of 0.0097 milligrams per kilogram (mg/kg) and 0.057 mg/kg, respectively. No petroleum hydrocarbons or fuel oxygenates were detected above the laboratory reporting limits in any of the other soil samples. Soil analytical data are summarized in Table 1. The certified analytical reports are provided as Attachment E.

GROUNDWATER DATA

Groundwater was first-encountered during drilling at depths between 17.5 and 22.5 feet bgs. Upon reaching the permeable horizon, groundwater rose 5 to 10 feet within the boreholes indicating locally confined conditions. In the deeper boring (MW-5), a depth discrete groundwater sample was collected from approximately 42 feet bgs. An attempt was made to collect a groundwater sample from the bottom of the boring at 60 feet bgs, but flowing sand heaved up into the direct-push rods and collapsed the borehole.

On March 15, 2010, Blaine Tech Services, Inc. (Blaine) developed Wells MW-1 through MW-6 using a surge and bail technique. The wells were surged for 10 minutes prior to the removal (purg-ing) of ten casing volumes of water. Groundwater quality parameters (turbidity, pH, electric conductivity [EC] and temperature) and a relative change in groundwater clarity were recorded for each well. The field data sheets are included as Attachment F.

On March 19, 2010 Blaine gauged and sampled new wells MW-1 through MW-6. Depth to water ranged from 11.75 feet (MW-1) to 13.16 feet (MW-2) below top of casing (TOC). Groundwater flow direction was calculated to the south-southeast at a gradient of approximately 0.002 feet per foot (ft/ft), as noted on the groundwater contour map (Figure 5). The field data sheets are included as Attachment F.

Groundwater samples from wells MW-1 through MW-6 were submitted to a California state certified laboratory and analyzed for the presence of TPH-d by EPA Method 8015M, and for THP-g, BTEX compounds, MTBE, TBA, DIPE, ETBE, and TAME by EPA Method 8260B. The depth discrete groundwater sample collected from the deep boring was also analyzed for ethanol, 1,2-DCA and EDB by EPA Method 8260B.

TPH-g concentrations of 230 micrograms per liter ($\mu\text{g/L}$) and 410 $\mu\text{g/L}$ were detected in the groundwater collected from wells MW-2 and MW-5, respectively. A TPH-d concentration of 55 $\mu\text{g/L}$ was detected in the depth-discrete groundwater sample collected from the deep boring (MW-5 at 42 feet bgs). MTBE was detected in wells MW-2 through MW-6 at concentrations ranging from 310 $\mu\text{g/L}$ (MW-5) to 3.3 $\mu\text{g/L}$ (MW-4). MTBE was also detected in the groundwater sample collected from the deep boring (MW-5 at 42 feet bgs) at a concentration of 1.2 $\mu\text{g/L}$. TPH-g, TPH-d, and MTBE were not detected above the laboratory reporting limits in any of the other groundwater samples. None of the other analytes were detected above the laboratory reporting limits in any of the groundwater samples analyzed. The groundwater analytical data are summarized in Table 2. The certified analytical reports are included in Attachment E.

WELL SURVEY

On March 17, 2010, the newly installed wells were surveyed by a licensed surveyor for latitude, longitude and elevation relative to mean sea level using both conventional survey techniques and GPS technology. The survey results will be uploaded to the California State GeoTracker database and are included as Attachment G.

SUMMARY AND RECOMMENDATIONS

Residual petroleum hydrocarbon impacts to soil are negligible. Only minor impacts of MTBE were detected in soil analyzed during the current investigation, which is consistent with the Phase II investigation performed at the site in August 2008. Concentrations of 0.0097 milligrams per kilogram (mg/kg) and 0.057 mg/kg MTBE were detected in soil from the borings for wells MW-2 and MW-5, respectively.

Concentrations of TPH-g and the highest concentrations of MTBE were detected in the groundwater samples collected from wells MW-2 (230 µg/L TPH-g and 180 µg/L MTBE) and MW-5 (410 µg/L TPH-g and 310 µg/L MTBE). Well MW-2 is located close to the UST complex and Well MW-5 is located down-gradient of the UST complex and product dispenser islands, which are both potential source areas. Relative to the USTs and dispenser islands, TPH-g and MTBE are delineated to below the laboratory reporting limits or to relatively low concentrations in the cross-gradient direction by wells MW-3, MW-4 and MW-6, and in the up-gradient direction by Well MW-1. The boring log for the deep boring (MW-5) shows three additional permeable zones at depths of 40 to 43 feet bgs, 45 to 48 feet bgs and 55 feet bgs. Minor concentrations of 55 µg/L TPH-d and 1.2 µg/L MTBE were detected in the depth-discrete groundwater sample collected at approximately 42 feet bgs. Additional investigation may be warranted to complete lateral and vertical delineation of impacts to groundwater. The new wells have been incorporated into a quarterly monitoring and sampling program and a first quarter report for 2010 will be issued in May.

Based on the results of this investigation, Delta recommends advancing two deep borings near wells MW-2 and MW-5 using cone penetration test (CPT) equipment, and installing one offsite groundwater monitoring well down-gradient of Well MW-5 to complete lateral and vertical delineation in groundwater. In the proposed borings, depth-discrete groundwater samples will be collected from the permeable zones identified in the deep boring advanced during the current investigation. The proposed offsite monitoring well will be built in the shallow water-bearing zone like those installed onsite. Upon concurrence from ACEH, Delta will prepare a work plan for the additional proposed investigation.

REMARKS

This document represents Delta's professional opinions based upon currently available information and is arrived at in accordance with currently acceptable professional standards. This document 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 document were performed. This document is intended only for the use of Delta's Client and anyone else specifically listed on this document. 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 document.

If you have any questions, please call Regina Bussard (Delta) at (408) 826-1876 or Denis Brown (Shell) at (707) 865-0251.

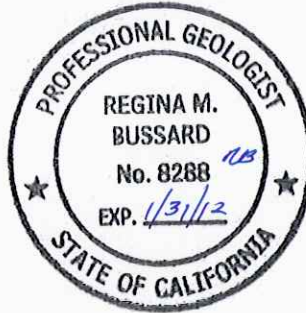
Sincerely,
Delta Consultants


Abhinav Dutta

for Cora Olson
Staff Engineer



Regina Bussard, P.G.
Project Manager



ATTACHMENTS:

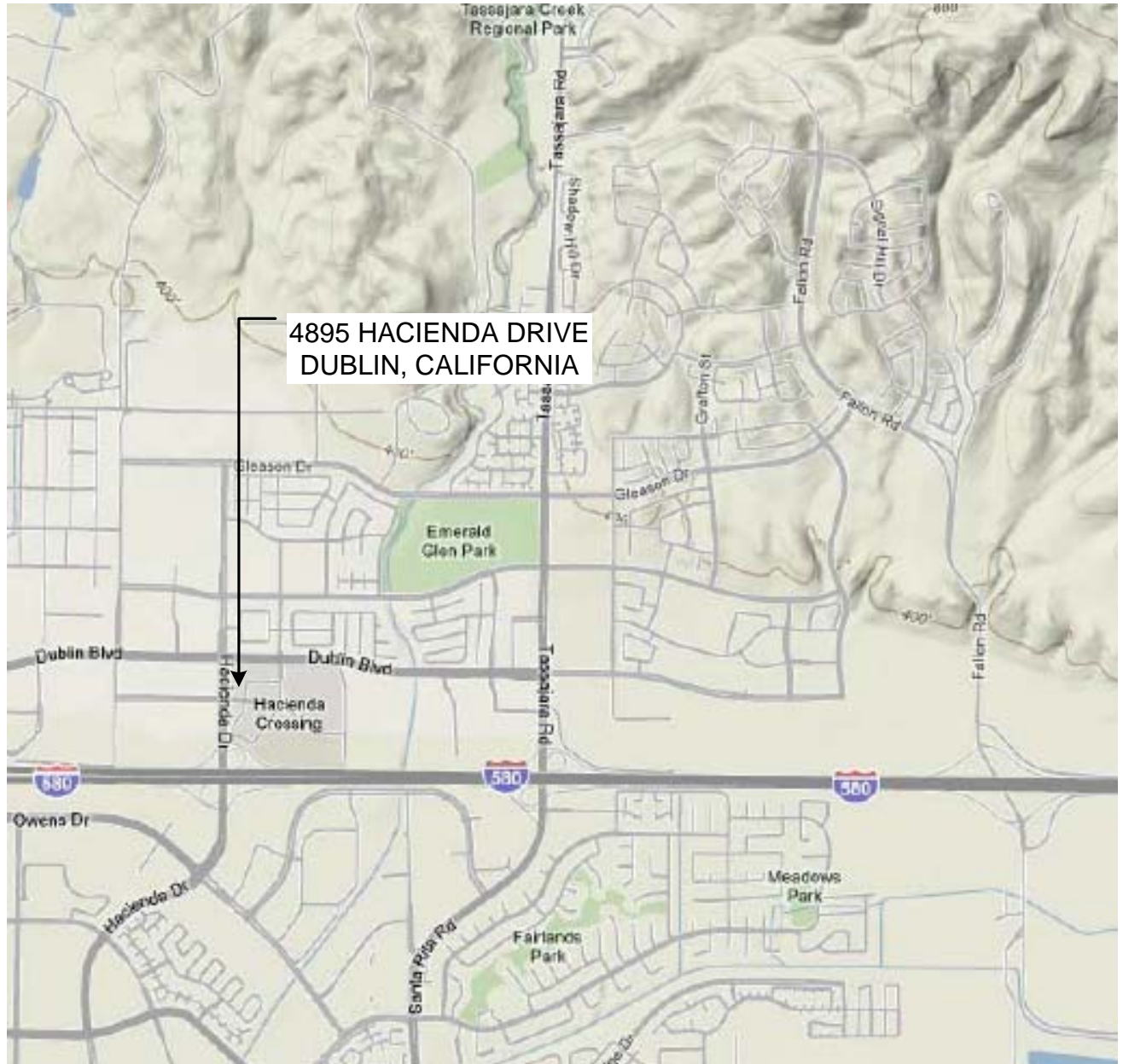
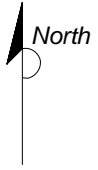
- Figure 1 – Site Location Map
- Figure 2 – Site Map
- Figure 3 – Cross-Section A-A'
- Figure 4 – Cross-Section B-B'
- Figure 5 - Groundwater Contour Map – 3/19/2010

- Table 1 – Soil Analytical Data
- Table 2 – Groundwater Analytical Data

- Attachment A – Regulatory Letter from ACEH dated November 17, 2009
- Attachment B – Zone 7 Water Agency Well Permit
- Attachment C – Boring Logs
- Attachment D – Sieve Analysis Results
- Attachment E – Certified Analytical Reports with Chain-of-Custody Documentation
- Attachment F – Field Data Sheets
- Attachment G – Well Survey Results

cc: Denis Brown, Shell Oil Products US, Carson
Carl Cox, C and J Cox Corporation, Pleasanton
Cheryl Dizon, Zone 7 Water Agency, Livermore

FIGURES



4895 HACIENDA DRIVE
DUBLIN, CALIFORNIA



APPROX. SCALE

FIGURE 1
SITE LOCATION MAP
SHELL-BRANDED SERVICE STATION
4895 HACIENDA DRIVE
DUBLIN, CALIFORNIA

PROJECT NO. SCA4895H1	DRAWN BY AD SEPT, 2009
FILE NO.	PREPARED BY AD
REVISION NO. 2	REVIEWED BY

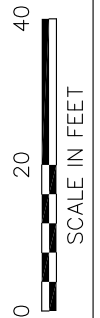


PROJECT NUMBER SCA4895H1D

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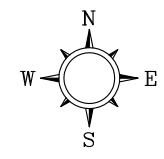
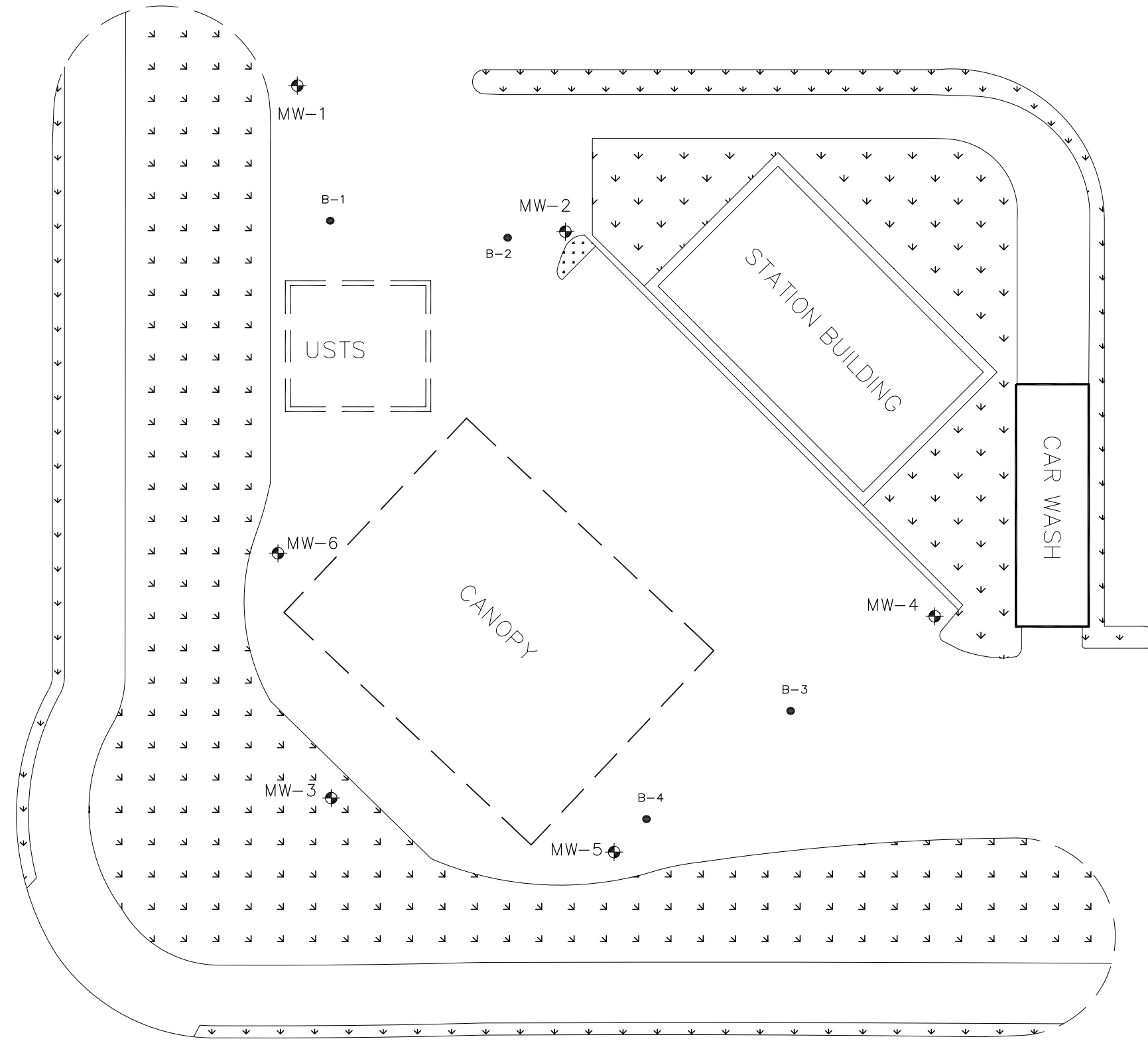
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DRAWN BY J.F.F. 4/9/2010



HACIENDA DRIVE

HACIENDA CROSSINGS/MARTINELLI WAY



LEGEND

- B-1 ● SOIL BORING (AUGUST 20, 2008)
- MW-1 ⊕ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

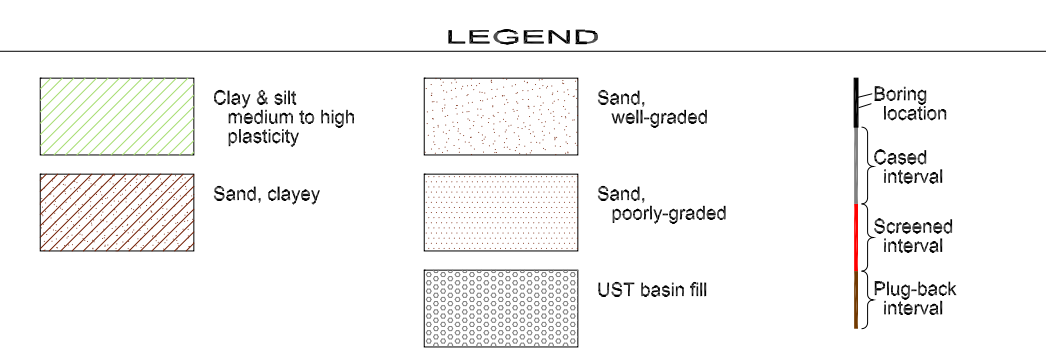
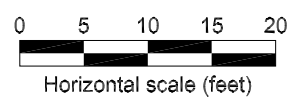
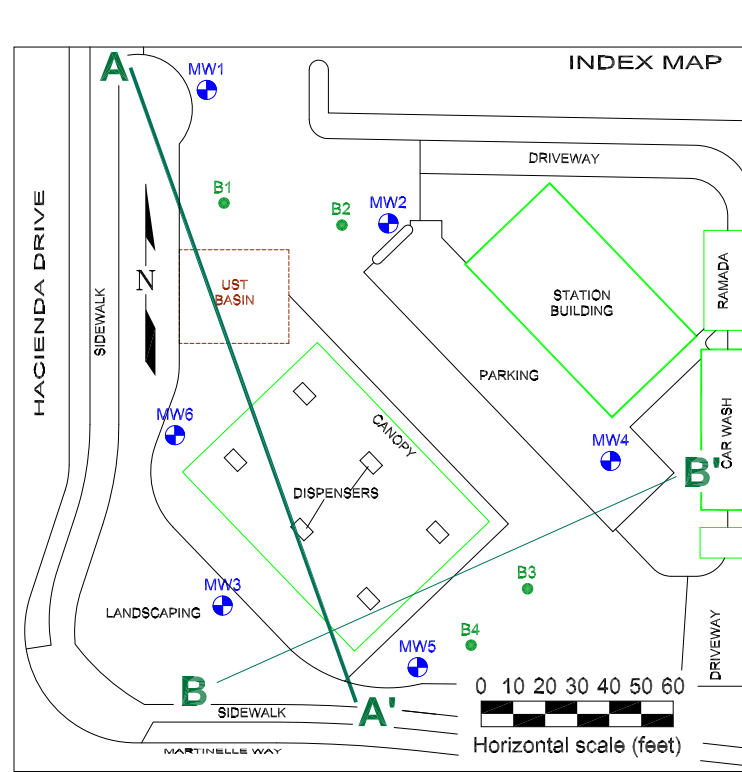
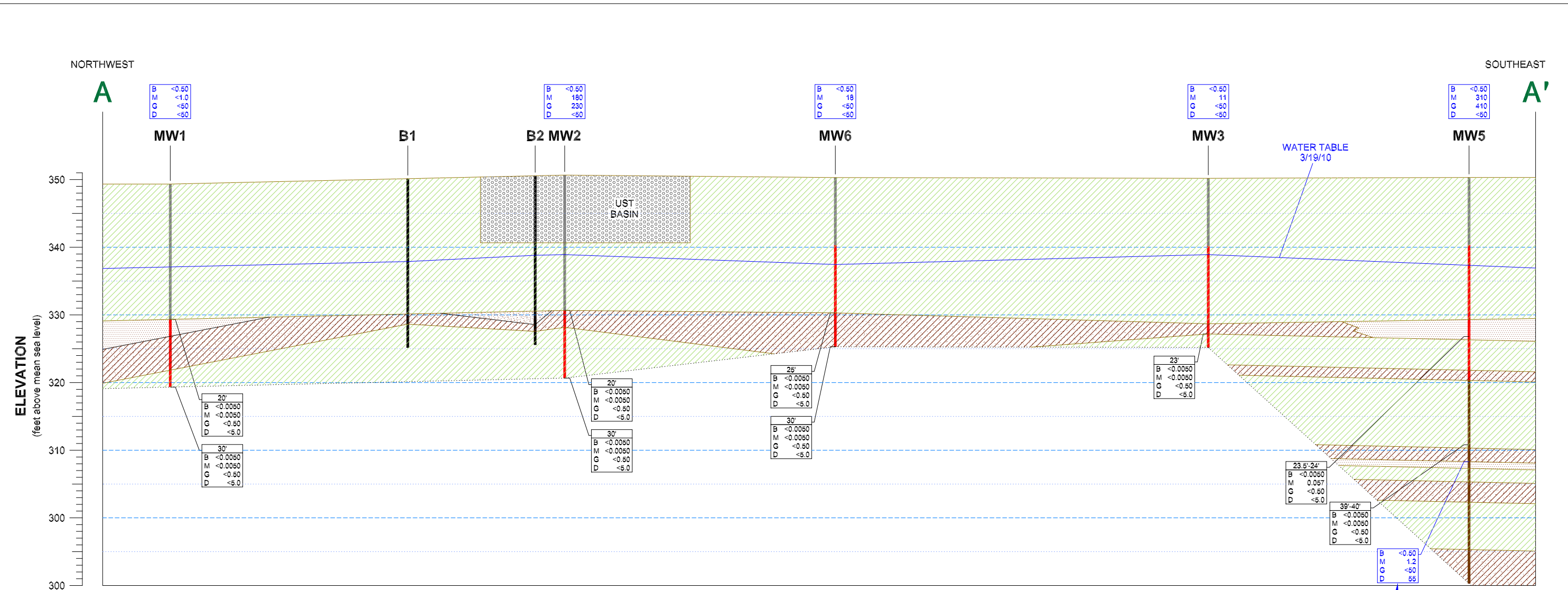


SHELL BRANDED SERVICE STATION

FIGURE 2

SITE MAP

4895 HACIENDA DRIVE
DUBLIN, CALIFORNIA



SOIL ANALYTICAL DATA		GROUND WATER ANALYTICAL DATA	
20'	SAMPLE DEPTH (ft below ground surface)	B <0.50	BENZENE CONCENTRATION (ug/L)
B <0.0050	BENZENE CONCENTRATION (mg/kg)	M <1.0	MTBE CONCENTRATION (ug/L)
M <0.0050	MTBE CONCENTRATION (mg/kg)	G <50	TPH-g CONCENTRATION (ug/L)
G <0.50	TPH-g CONCENTRATION (mg/kg)	D <50	TPH-d CONCENTRATION (ug/L)
D <5.0	TPH-d CONCENTRATION (mg/kg)		

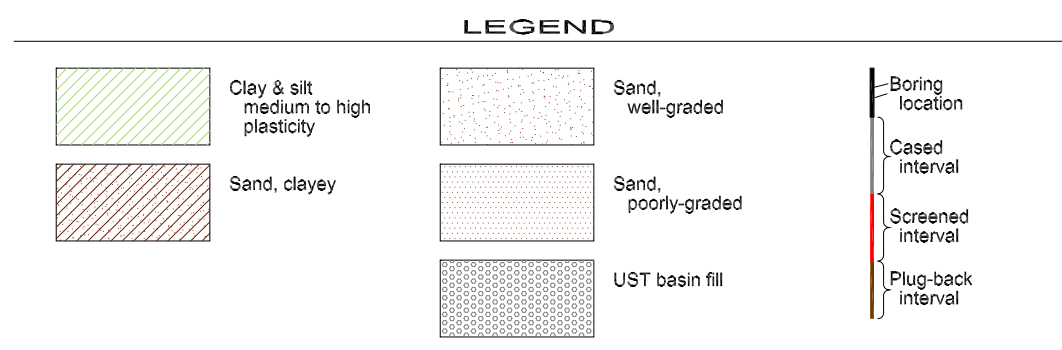
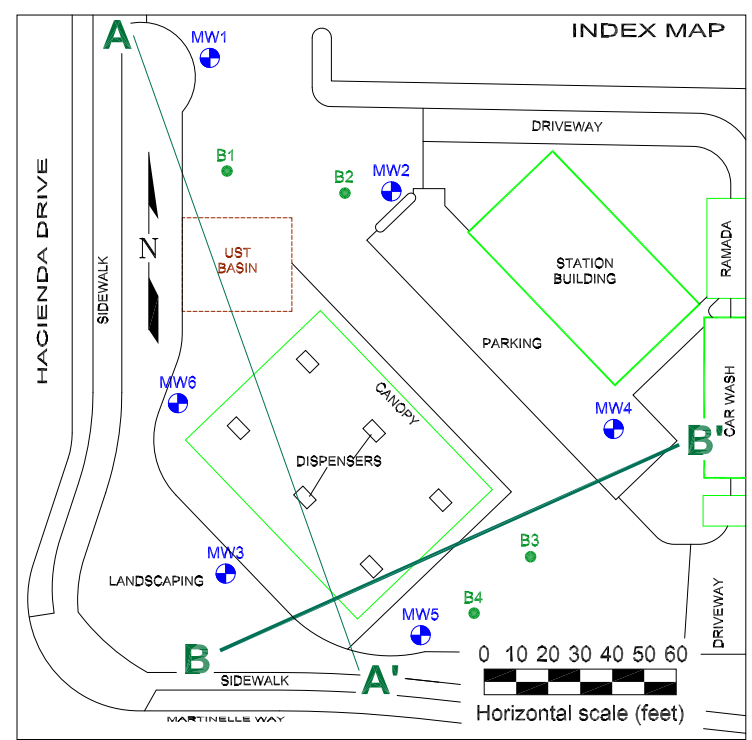
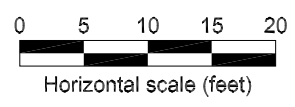
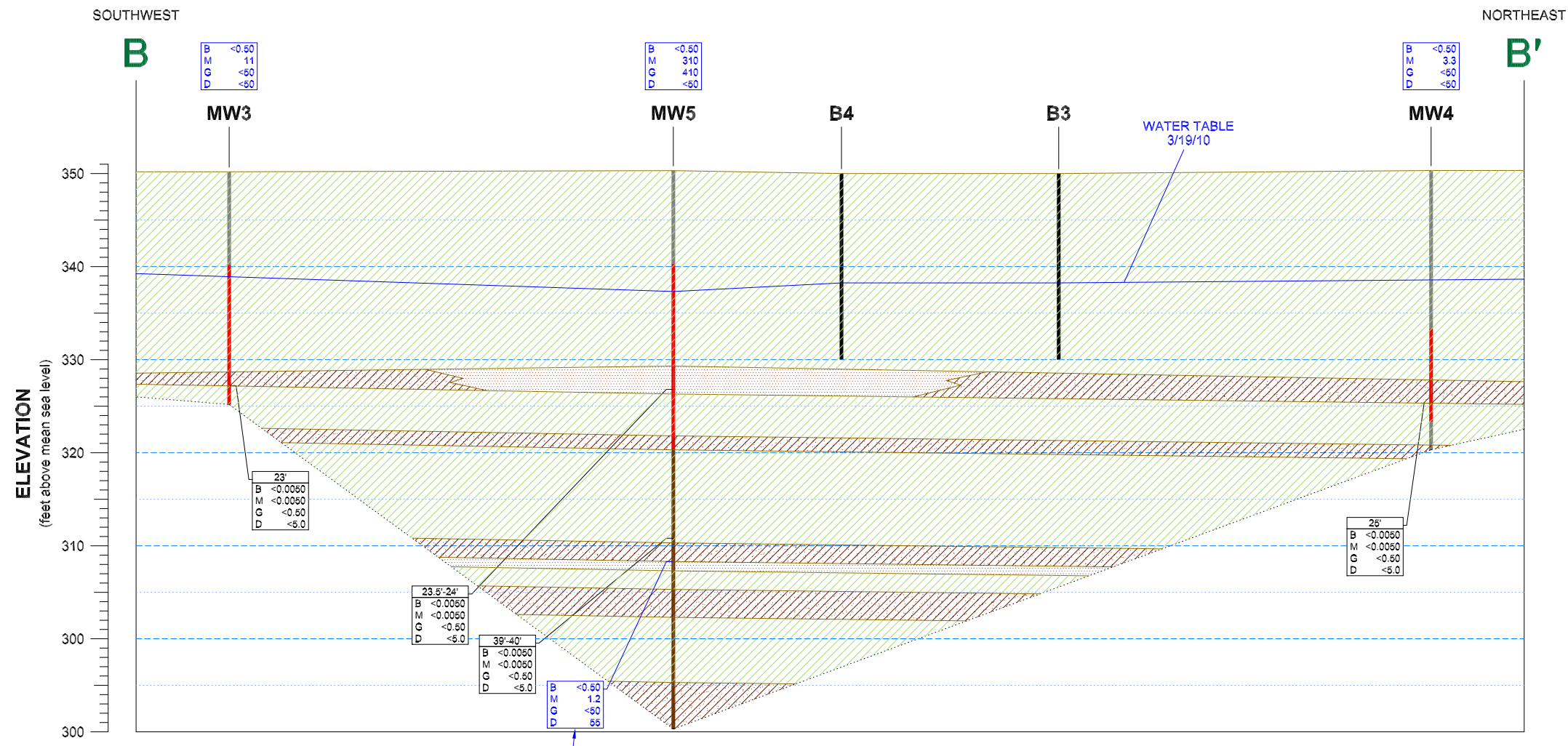
Soil analytical data is from the time of boring/well installation

Ground water sampled 3/19/10 except as otherwise noted

**Figure 3
CROSS-SECTION A-A'**

Shell Branded Service Station
4895 Hacienda Drive
Dublin, California

Project No. SCA4895H1D	Prepared by JMA	Drawn by JMA
Filename D1007xa	Reviewed by	Date 4/15/10



**Figure 4
CROSS-SECTION B-B'**

Shell Branded Service Station
4895 Hacienda Drive
Dublin, California

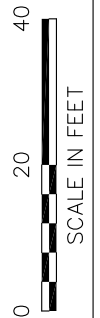
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Filename D1007xb	Reviewed by JMA	
		Date 4/15/10

PROJECT NUMBER
SCA4895H1D

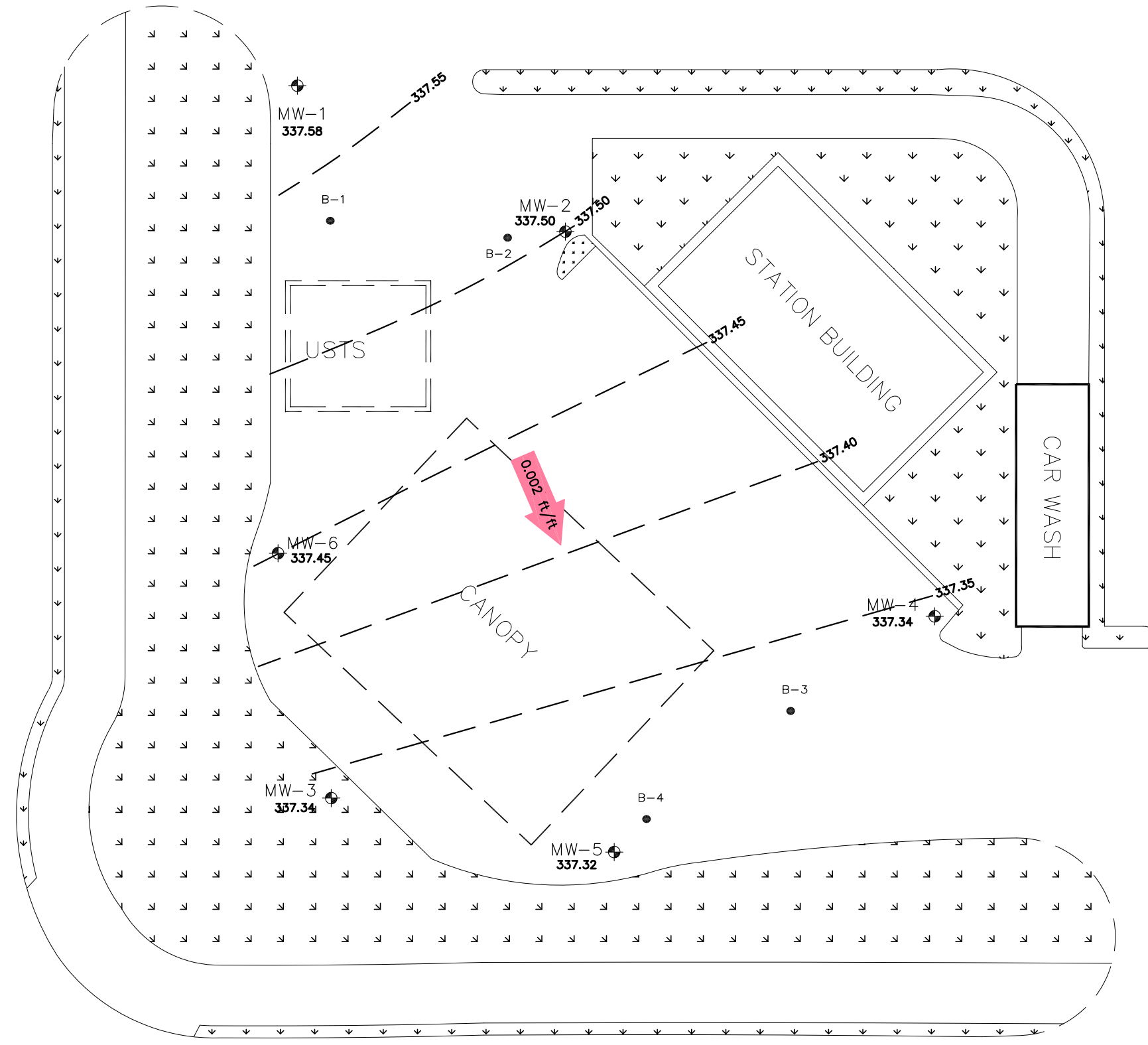
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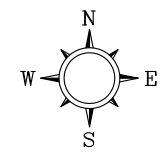
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J.F.F.
4/9/2010



HACIENDA DRIVE



HACIENDA CROSSINGS/MARTINELLI WAY



LEGEND

- B-1 ● SOIL BORING (AUGUST 20, 2008)
- MW-1 ⊕ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- 337.58 GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL)
- 337.35 ——— GROUNDWATER CONTOUR IN FEET ABOVE MEAN SEA LEVEL (Ft/MSL)
CONTOUR INTERVAL=0.05 FEET
- 0.002 ft/ft → APPROXIMATE GROUNDWATER GRADIENT DIRECTION (FT/FT)

WELL	DTW	TOC	GW
MW-1	11.75	349.33	337.58
MW-2	13.16	350.66	337.50
MW-3	12.84	350.18	337.34
MW-4	12.98	350.32	337.34
MW-5	12.99	350.31	337.32
MW-6	12.84	350.29	337.45

DTW DEPTH TO WATER
TOC TOP OF CASING
GW GROUNDWATER ELEVATION



SHELL BRANDED SERVICE STATION

FIGURE 5
GROUNDWATER CONTOUR MAP
3/19/2010

4895 HACIENDA DRIVE
DUBLIN, CALIFORNIA

TABLES

TABLE 1
SOIL ANALYTICAL DATA
Shell-Branded Service Station
4895 Hacienda Drive
Dublin, California

Sample ID	Date Collected	TPH-g (mg/kg)	TPH-d (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	Ethanol (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
MW-1@20'	02/16/10	ND< 0.50	ND< 5.0	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.050	ND< 0.010	ND< 0.010	ND< 0.010	ND< 0.50	ND< 0.0050	ND< 0.0050
MW-1@30'	02/16/10	ND< 0.50	ND< 5.0	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.050	ND< 0.010	ND< 0.010	ND< 0.010	ND< 0.50	ND< 0.0050	ND< 0.0050
MW-2@20'	02/16/10	ND< 0.50	ND< 5.0	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.0050	0.0097	ND< 0.050	ND< 0.010	ND< 0.010	ND< 0.010	ND< 0.50	ND< 0.0050	ND< 0.0050
MW-2@30'	02/16/10	ND< 0.50	ND< 5.0	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.050	ND< 0.010	ND< 0.010	ND< 0.010	ND< 0.50	ND< 0.0050	ND< 0.0050
MW-3@23'	02/18/10	ND< 0.50	ND< 5.0	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.050	ND< 0.010	ND< 0.010	ND< 0.010	ND< 0.50	ND< 0.0050	ND< 0.0050
MW-4@25'	02/17/10	ND< 0.50	ND< 5.0	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.050	ND< 0.010	ND< 0.010	ND< 0.010	ND< 0.50	ND< 0.0050	ND< 0.0050
MW-6@20'	02/17/10	ND< 0.50	ND< 5.0	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.050	ND< 0.010	ND< 0.010	ND< 0.010	ND< 0.50	ND< 0.0050	ND< 0.0050
MW-6@25'	02/17/10	ND< 0.50	ND< 5.0	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.050	ND< 0.010	ND< 0.010	ND< 0.010	ND< 0.50	ND< 0.0050	ND< 0.0050
MW5@23.5-24'	02/17/10	ND< 0.50	ND< 5.0	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.0050	0.057	ND< 0.050	ND< 0.010	ND< 0.010	ND< 0.010	ND< 0.50	ND< 0.0050	ND< 0.0050
MW5@39.5-40'	02/17/10	ND< 0.50	ND< 5.0	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.0050	ND< 0.050	ND< 0.010	ND< 0.010	ND< 0.010	ND< 0.50	ND< 0.0050	ND< 0.0050

Abbreviations:

TPH-g = Total petroleum hydrocarbons as gasoline by EPA Method 8260B, identified by the laboratory as total purgeable petroleum hydrocarbons (TPPH)

TPH-d = Total petroleum hydrocarbons as diesel by EPA Method 8015, identified by the laboratory as diesel range organics (DRO)

B = Benzene, analyzed by EPA Method 8260B

T = Toluene, analyzed by EPA Method 8260B

E = Ethylbenzene, analyzed by EPA Method 8260B

X = Xylenes, analyzed by EPA Method 8260B

MTBE = Methyl tert-butyl ether, analyzed by EPA Method 8260B

TBA = Tert-butyl alcohol, analyzed by EPA Method 8260B

DIPE = diisopropyl ether, analyzed by EPA Method 8260B

ETBE = ethyl tert-butyl ether, analyzed by EPA Method 8260B

TAME = tert-amyl methyl ether, analyzed by EPA Method 8260B

1,2-DCA = 1,2 dichloroethane

EDB = 1,2 dibromoethane

mg/kg = milligrams per kilograms, equivalent to Parts per billion

ND(<n) = Not detected above the shown detection limit (n)

TABLE 2
GROUNDWATER ANALYTICAL DATA
Shell-Branded Service Station
4895 Hacienda Drive
Dublin, California

Sample ID	Date Collected	TPH-g (ug/L)	TPH-d (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TBA (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	Ethanol (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)
MW-5@42'	2/17/2010	ND < 50	55	ND< 0.50	ND < 1.0	ND < 1.0	ND < 1.0	1.2	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<0.50	ND<1.0
MW-1	3/19/2010	ND < 50	ND< 50	ND< 0.50	ND < 1.0	ND < 1.0	ND < 1.0	<1.0	ND < 10	ND<2.0	ND<2.0	ND<2.0	NA	NA	NA
MW-2	3/19/2010	230	ND< 50	ND< 0.50	ND < 1.0	ND < 1.0	ND < 1.0	180	ND < 10	ND<2.0	ND<2.0	ND<2.0	NA	NA	NA
MW-3	3/19/2010	ND < 50	ND< 50	ND< 0.50	ND < 1.0	ND < 1.0	ND < 1.0	11	ND < 10	ND<2.0	ND<2.0	ND<2.0	NA	NA	NA
MW-4	3/19/2010	ND < 50	ND< 50	ND< 0.50	ND < 1.0	ND < 1.0	ND < 1.0	3.3	ND < 10	ND<2.0	ND<2.0	ND<2.0	NA	NA	NA
MW-5	3/19/2010	410	ND< 50	ND< 0.50	ND < 1.0	ND < 1.0	ND < 1.0	310	ND < 10	ND<2.0	ND<2.0	ND<2.0	NA	NA	NA
MW-6	3/19/2010	ND < 50	ND< 50	ND< 0.50	ND < 1.0	ND < 1.0	ND < 1.0	18	ND < 10	ND<2.0	ND<2.0	ND<2.0	NA	NA	NA

Abbreviations:

TPH-g = Total petroleum hydrocarbons as gasoline by EPA Method 8260B, identified by the laboratory as total purgeable petroleum hydrocarbons (TPPH)

TPH-d = Total petroleum hydrocarbons as diesel by EPA Method 8015, identified by the laboratory as diesel range organics (DRO)

B = Benzene, analyzed by EPA Method 8260B

T = Toluene, analyzed by EPA Method 8260B

E = Ethylbenzene, analyzed by EPA Method 8260B

X = Xylenes, analyzed by EPA Method 8260B

MTBE = Methyl tert-butyl ether, analyzed by EPA Method 8260B

TBA = Tert-butyl alcohol, analyzed by EPA Method 8260B

DIPE = diisopropyl ether, analyzed by EPA Method 8260B

ETBE = ethyl tert-butyl ether, analyzed by EPA Method 8260B

TAME = tert-amyl methyl ether, analyzed by EPA Method 8260B

1,2-DCA = 1,2 dichloroethane

EDB = 1,2 dibromoethane

ug/L = micrograms per liter, equivalent to Parts per billion

ND(<n) = Not detected above the shown detection limit (n)

NA = Not Analyzed

ATTACHMENT A

**REGULATORY LETTER FROM ACEH
DATED NOVEMBER 17, 2009**



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

RECEIVED
NOV 20 2009

November 17, 2009

BY:.....

Mr. Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Subject: Fuel Leak Case No. RO0002985 and Geotracker Global ID T10000000423, Shell #16-5112, 4895 Hacienda Drive, Dublin, CA 94568 – Conditional Work Plan Approval

Dear Mr. Brown:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site, including the recent work plan entitled, "*Soil and Groundwater Investigation Work Plan, Shell-branded Service Station, 4895 Hacienda Drive, Dublin, California,*" dated September 28, 2009. The September 28, 2009 Work Plan proposes the installation of monitoring wells at six locations across the site.

Four soil borings were advanced at the site on August 20, 2008 as part of a Phase II Environmental Site Assessment. Soil samples from two of the four soil borings contained MTBE at concentrations up to 0.073 milligrams per kilogram. Groundwater samples were collected from two of the four soil borings. Total petroleum hydrocarbons as gasoline (TPHg) were detected in one of the two groundwater samples at a concentration of 320 micrograms per liter ($\mu\text{g/L}$). MTBE was detected in both groundwater samples at concentrations of 2.3 and 370 $\mu\text{g/L}$. The source of the TPHg and MTBE is unknown. The September 28, 2009 Work Plan proposes the installation of monitoring wells at six locations across the site.

Four of the six proposed well locations are outside the general area of the suspected sources, the dispensers, piping, and USTs. Therefore, it is likely that an additional phase of investigation will be required to define the nature and extent of contamination using sampling locations that are more proximal to the suspected sources of contamination. However, we do not object to the proposed scope of work as an initial phase of investigation to assess general site conditions.

The proposed scope of work is conditionally approved and may be implemented provided that the technical comments below are addressed during the proposed field investigation. Submittal of a revised Work Plan or Work Plan Addendum is not required unless an alternate scope of work outside that described in the Work Plan and technical comment below is proposed. We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

1. **Proposed Well Locations.** The proposed well locations are generally acceptable; however, we request one modification to the proposed well locations as shown on the attached figure entitled, "Modified Site Plan." We request that well MW-3 be moved to a location that is more likely to be downgradient from the fuel system. Please present the soil boring logs, well completion diagrams, screening results, and analytical results from the wells in the Well Installation and Destruction Report requested below.

2. **Soil Sampling.** We request that soil samples be collected continuously for logging and screening purposes. Sampling at the proposed interval of every five feet is not expected to provide sufficient definition of the site stratigraphy. We note that coarse-grained layers described on boring logs from the August 20, 2008 Phase II Environmental Site Assessment are typically two feet in thickness or less and likely would be missed with a sampling interval of five feet. The selection of soil samples for laboratory analysis using PID readings or indications of petroleum hydrocarbons such as odor or staining is acceptable.
3. **Deeper Boring Locations.** The Work Plan proposes that boring MW-2 be advanced to a depth of 50 feet bgs to define soil conditions and collect depth-discrete groundwater samples. Proposed boring MW-2 is located in a likely cross gradient or upgradient position to the suspected sources of contamination. We request that proposed borings MW-3 and MW-5 be advanced to depths of 50 feet bgs for collection of depth-discrete grab groundwater samples from coarse-grained water-bearing layers. Please present the results in the Well Installation and Destruction Report requested below.
4. **Groundwater Monitoring.** The newly installed wells are to be monitored on a quarterly basis for a period of one year. Please present the results in the quarterly groundwater reports requested below.

TECHNICAL REPORT REQUEST

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

- **April 15, 2010** – Site Investigation Report
- **40 days following the end of each quarter** – Quarterly Monitoring Reports

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,

Mr. Denis Brown
RO0002985
November 17, 2009
Page 3

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/cleanup/electronic reporting](http://www.swrcb.ca.gov/ust/cleanup/electronic%20reporting)).

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.

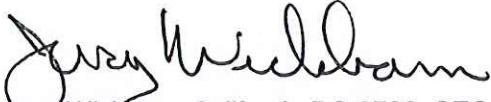
AGENCY OVERSIGHT

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.

Mr. Denis Brown
RO0002985
November 17, 2009
Page 4

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,



Jerry Wickham, California PG 3766, CEG 1177, and CHG 297
Senior Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Cheryl Dizon, QIC 80201
Zone 7 Water Agency
100 North Canyons Parkway
Livermore, CA 94551

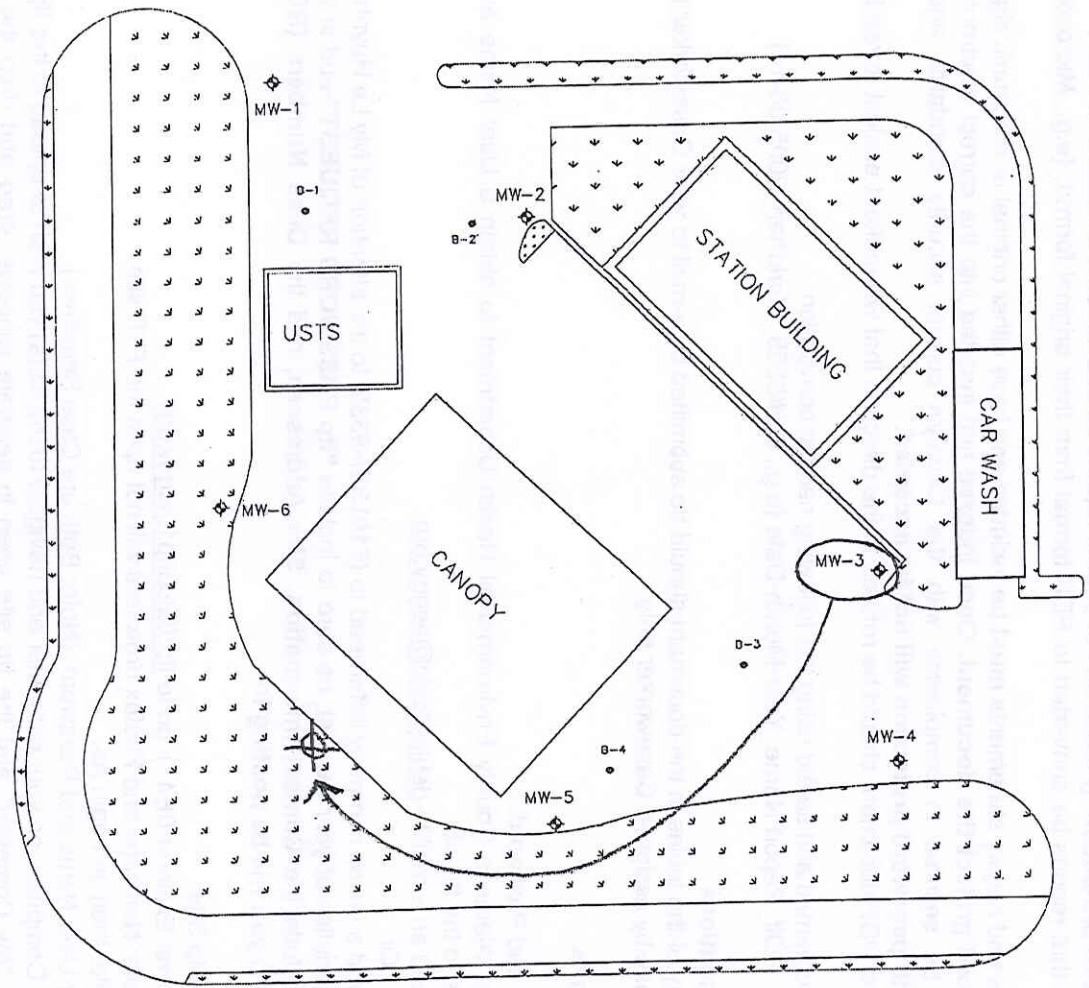
Regina Brussard
Delta Environmental Consultants, Inc.
312 Piercy Road
San Jose, CA 95138

Donna Drogos, ACEH
Jerry Wickham, ACEH
Geotracker, File

PROJECT NUMBER SCA4895H1
 APPROVED BY
 CHECKED BY
 DRAWN BY AD 8/27/2009

SCALE IN FEET
 0 20 40

HACIENDA DRIVE



LEGEND
 B-1 ● SOIL BORING (AUGUST 20, 2008)
 MW-1 ◆ PROPOSED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

DELTA CONSULTANTS
 SHELL OIL PRODUCTS US
 SHELL SERVICE STATION
 CAPITOLA, CALIFORNIA

FIGURE 2
 SITE MAP
 4895 HACIENDA DRIVE
 DUBLIN, CALIFORNIA

Attachment: Modified Site Plan

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
ZONE 7 WATER AGENCY WELL PERMIT



ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306

E-MAIL whong@zone7water.com

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 4895 Hacienda Dr.
Dublin, CA

PERMIT NUMBER 2010001
WELL NUMBER 3S/1E-5H7 to 5H12 (MW-1 to MW-6)
APN 986-0008-013-00

Coordinates Source _____ ft. Accuracy V _____ ft.
LAT: _____ ft. LONG: _____ ft.
APN 986-8-13

PERMIT CONDITIONS
(Circled Permit Requirements Apply)

CLIENT Name Shell Oil Products
Address 20945 S. Wilmington Ave Phone 707-865-0251
City Carson Zip 90810

- A. GENERAL**
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date.
 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report (DWR Form 188), signed by the driller.
 3. Permit is void if project not begun within 90 days of approval date.

APPLICANT Name Lora Olson for Delta Consultants
Email colson@deltaenv.com Fax 408-225-8506
Address 312 Piercy Rd. Phone 408-826-1877
City San Jose Zip 95138

- B. WATER SUPPLY WELLS**
1. Minimum surface seal diameter is four inches greater than the well casing diameter.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
 3. Grout placed by tremie.
 4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
 5. A sample port is required on the discharge pipe near the wellhead.

TYPE OF PROJECT:

<input checked="" type="checkbox"/> Well Construction	9	Geotechnical Investigation	9
<input type="checkbox"/> Well Destruction	9	Contamination Investigation	9
<input type="checkbox"/> Cathodic Protection	9	Other _____	9

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
 3. Grout placed by tremie.

PROPOSED WELL USE:

<input type="checkbox"/> Domestic	9	Irrigation	9
<input type="checkbox"/> Municipal	9	Remediation	9
<input type="checkbox"/> Industrial	9	<input checked="" type="checkbox"/> Groundwater Monitoring	9
<input type="checkbox"/> Dewatering	9	Other _____	9

DRILLING METHOD:

<input type="checkbox"/> Mud Rotary	9	<input type="checkbox"/> Air Rotary	9	<input checked="" type="checkbox"/> Hollow Stem Auger	9
<input type="checkbox"/> Cable Tool	9	<input type="checkbox"/> Direct Push	9	<input type="checkbox"/> Other _____	9

DRILLING COMPANY RSI Drilling

DRILLER'S LICENSE NO. 802334

WELL SPECIFICATIONS:

Drill Hole Diameter	<u>10</u> in.	Maximum	
Casing Diameter	<u>4</u> in.	Depth	<u>30</u> ft.
Surface Seal Depth	<u>15</u> ft.	Number	<u>6 wells</u>
			<u>MW-1 to MW-6</u>

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

SOIL BORINGS:

Number of Borings	<u>2</u>	Maximum	
Hole Diameter	<u>10</u> in.	Depth	<u>50</u> ft.

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

ESTIMATED STARTING DATE 1/25/10
ESTIMATED COMPLETION DATE 1/28/10

- F. WELL DESTRUCTION.** See attached.

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

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

APPLICANT'S SIGNATURE [Signature] Date 12/9/09

Approved [Signature] Date 1/5/10
Wyman Hong

ATTACH SITE PLAN OR SKETCH

ATTACHMENT C

BORING LOGS



BORING LOG

Client **Shell Oil Products US**
 Project Number **SCA4895H1D**

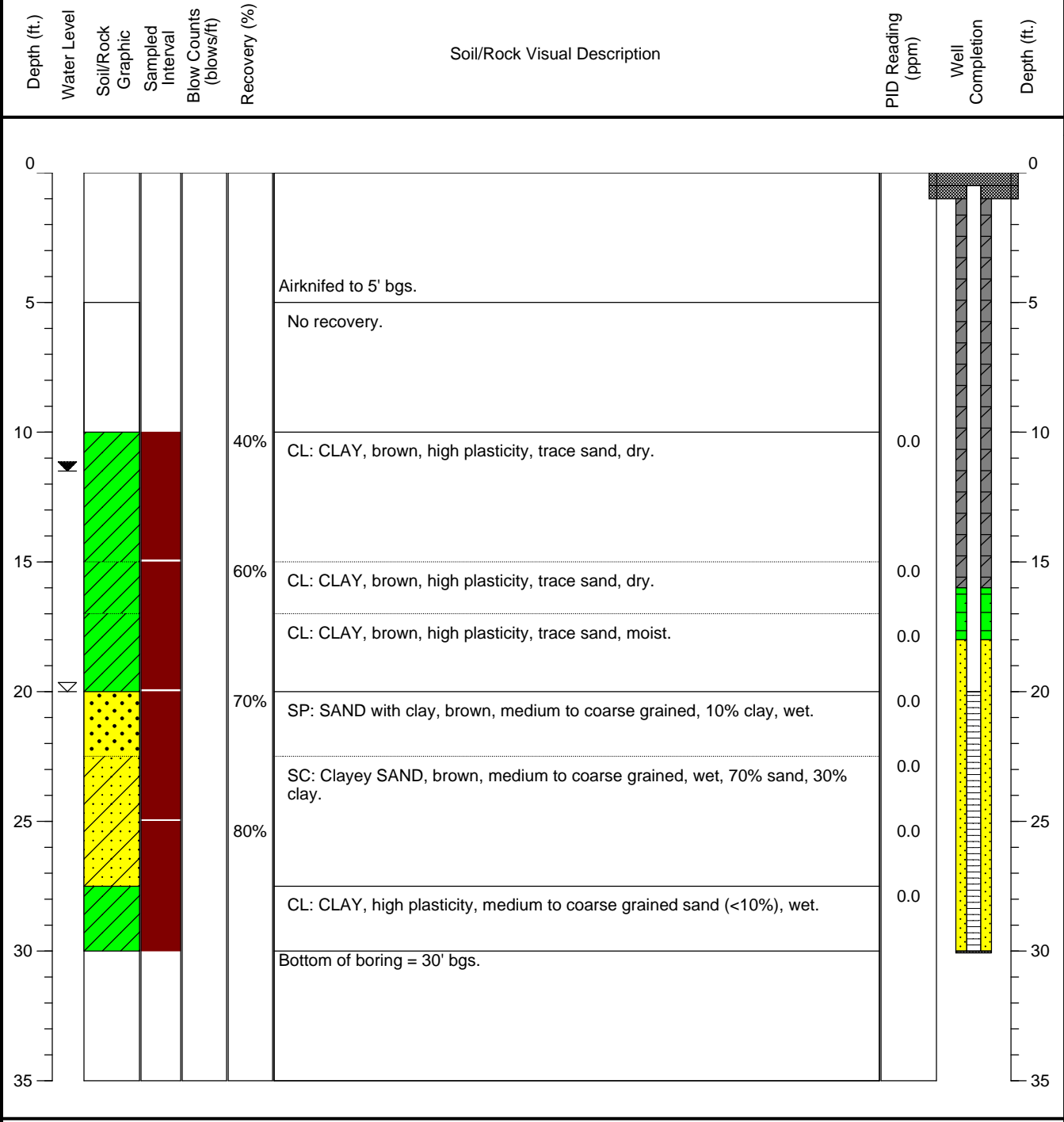
Well No.
MW-1

Address:
4895 Hacienda Drive
Dublin, CA
 Logged By:
Cora Olson

Drilling Date(s): **02/16/10**
 Drilling Company:
RSI
 Drilling Method:
HSA
 Boring Depth (ft.): **30'**

Boring diameter (in.): **10"**
 Sampling Method: **5' Core-barrel**
 Well Depth (ft.): **30'**
 Casing Diameter (in.): **4"**

Casing Material:
Sch 40 PVC
 Screen Interval: **20' - 30' bgs**
 Screen slot size:
0.010"
 Sand Pack: **2/12**





BORING LOG

Client **Shell Oil Products US**
 Project Number **SCA4895H1D**

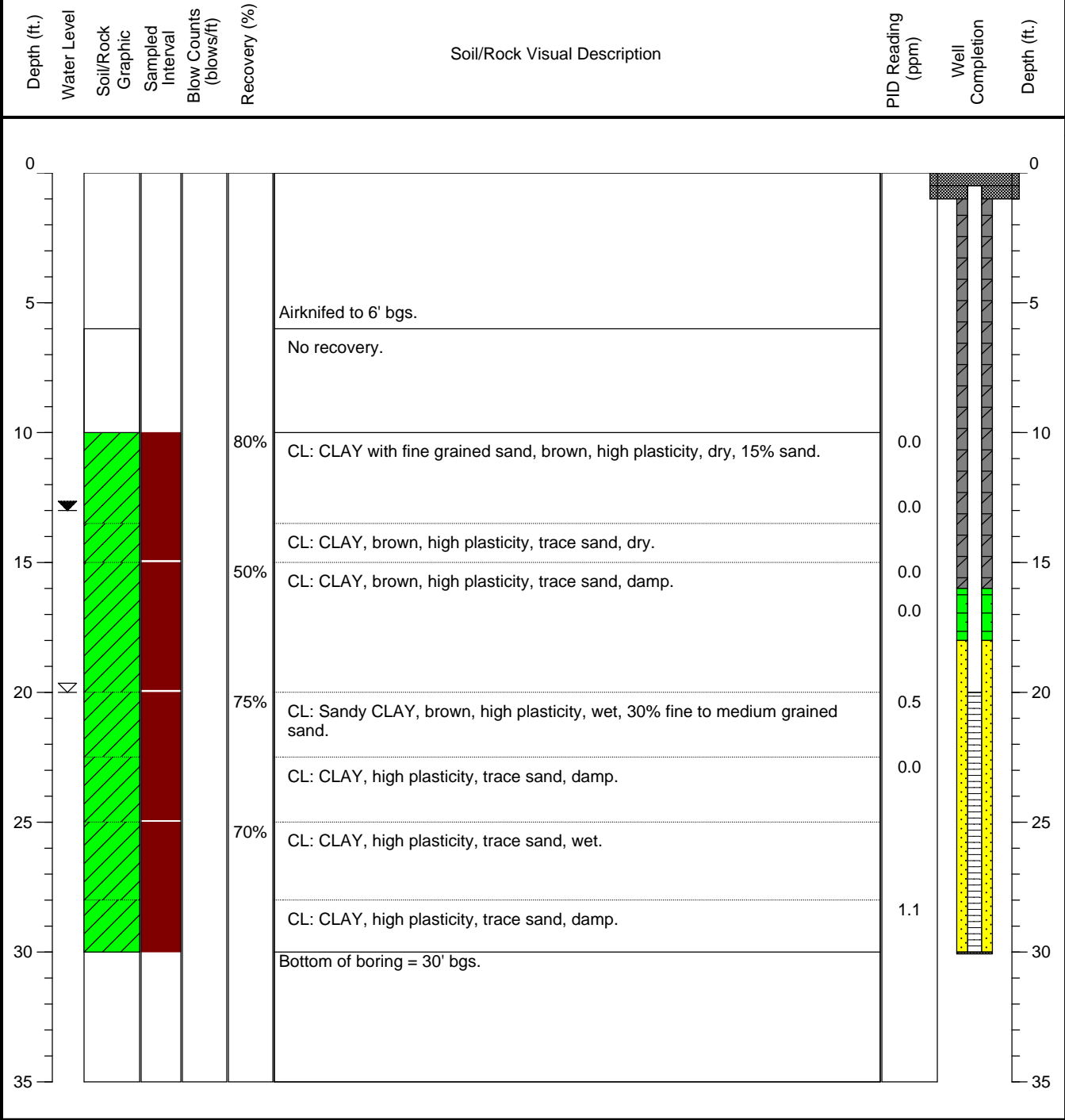
Well No.
MW-2

Address:
4895 Hacienda Drive
Dublin, CA
 Logged By:
Cora Olson

Drilling Date(s): **02/16/10**
 Drilling Company:
RSI
 Drilling Method:
HSA
 Boring Depth (ft): **30'**

Boring diameter (in.): **10"**
 Sampling Method: **5' Core-barrel**
 Well Depth (ft.): **30'**
 Casing Diameter (in.): **4"**

Casing Material:
Sch 40 PVC
 Screen Interval: **20' - 30' bgs**
 Screen slot size:
0.010"
 Sand Pack: **2/12**





BORING LOG

Client **Shell Oil Products US**
 Project Number **SCA4895H1D**

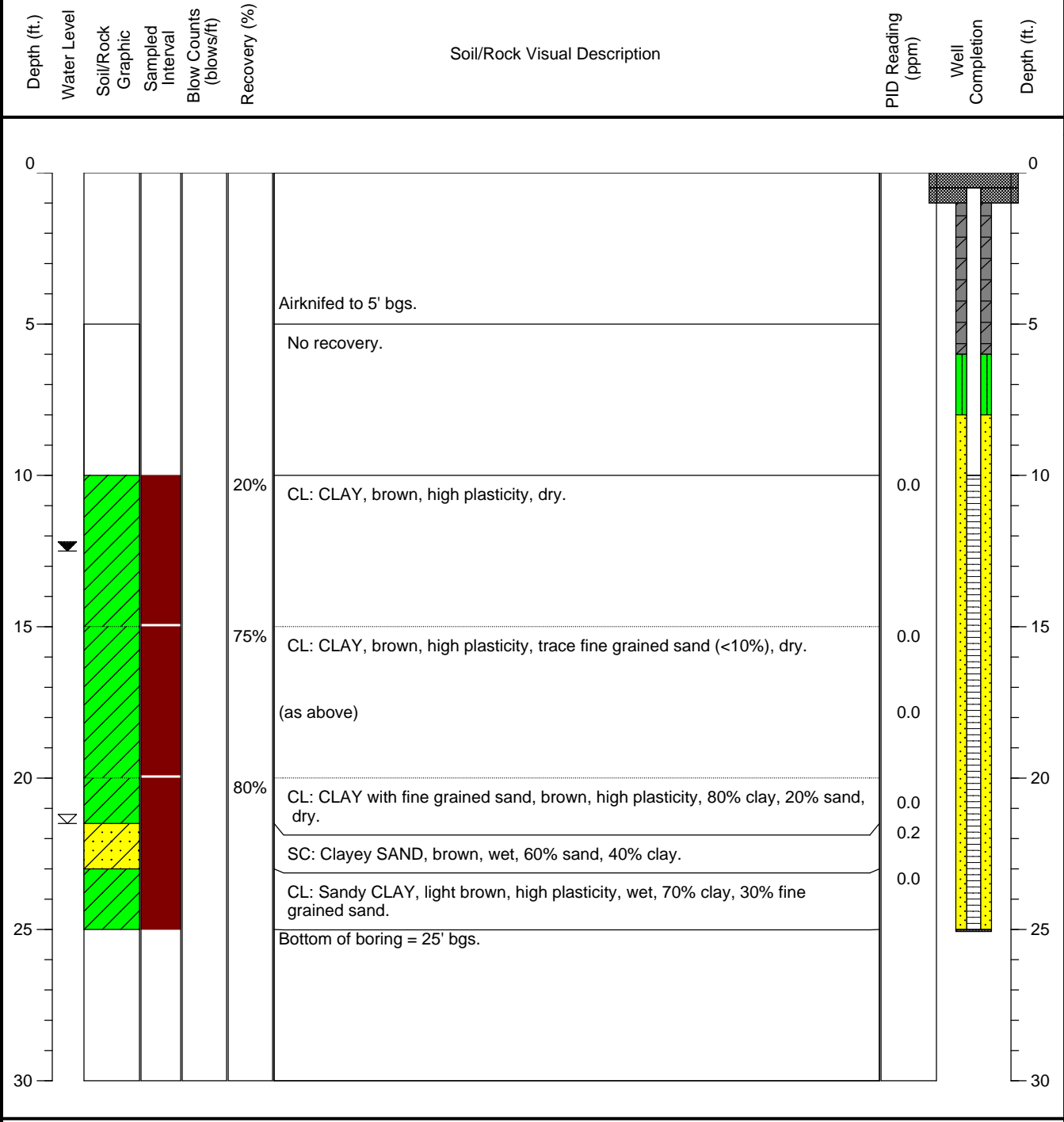
Well No.
MW-3

Address:
4895 Hacienda Drive
Dublin, CA
 Logged By:
Cora Olson

Drilling Date(s): **02/18/10**
 Drilling Company:
RSI
 Drilling Method:
HSA
 Boring Depth (ft.): **25'**

Boring diameter (in.): **10"**
 Sampling Method: **5' Core-barrel**
 Well Depth (ft.): **25'**
 Casing Diameter (in.): **4"**

Casing Material:
Sch 40 PVC
 Screen Interval: **10' - 25' bgs**
 Screen slot size:
0.010"
 Sand Pack: **2/12**





BORING LOG

Client **Shell Oil Products US**
 Project Number **SCA4895H1D**

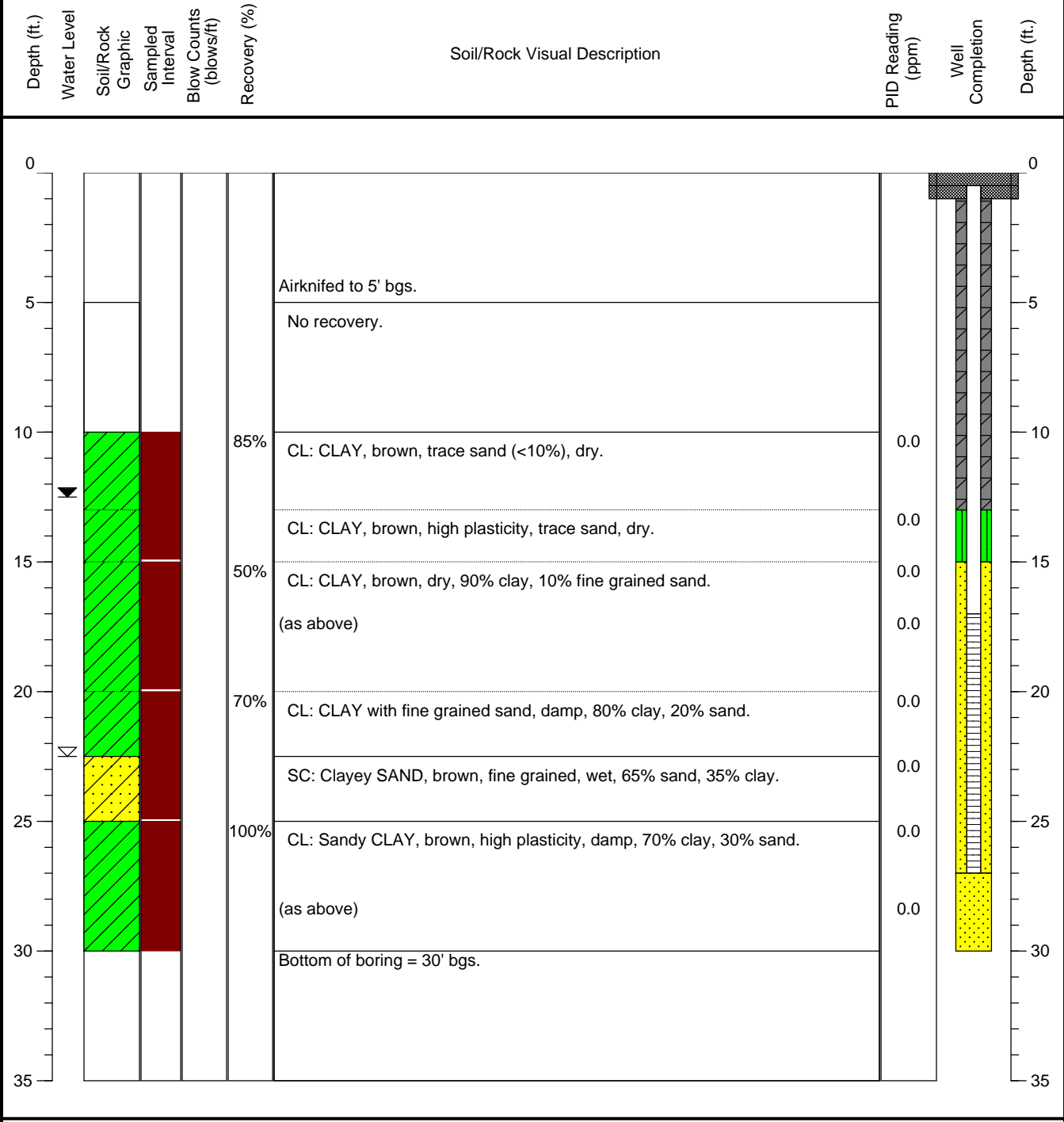
Well No.
MW-4

Address:
4895 Hacienda Drive
Dublin, CA
 Logged By:
Cora Olson

Drilling Date(s): **02/17/10**
 Drilling Company:
RSI
 Drilling Method:
HSA
 Boring Depth (ft.): **30'**

Boring diameter (in.): **10"**
 Sampling Method: **5' Core-barrel**
 Well Depth (ft.): **27'**
 Casing Diameter (in.): **4"**

Casing Material:
Sch 40 PVC
 Screen Interval: **17' - 27' bgs**
 Screen slot size:
0.010"
 Sand Pack: **2/12**





BORING LOG

Client **Shell Oil Products US**
 Project Number **SCA4895H1D**

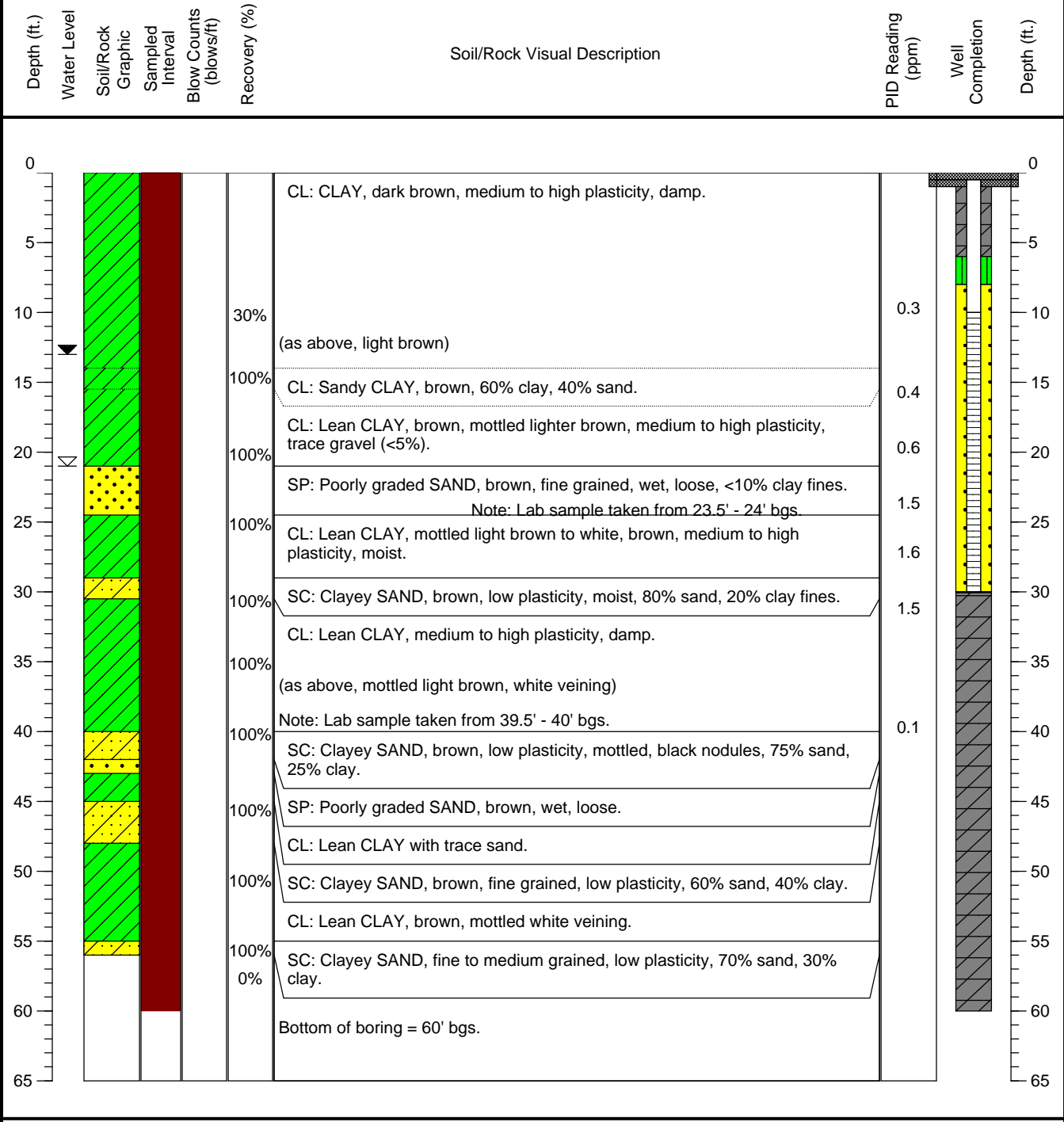
Well No.
MW-5

Address:
4895 Hacienda Drive
Dublin, CA
 Logged By:
Matt Corley

Drilling Date(s): **02/16/10-02/17/10**
 Drilling Company:
RSI
 Drilling Method:
HSA/DP
 Boring Depth (ft.): **57'**

Boring diameter (in.): **2"/10"**
 Sampling Method: **Acetate Liner**
 Well Depth (ft.): **30'**
 Casing Diameter (in.): **4"**

Casing Material:
Sch 40 PVC
 Screen Interval: **10' - 30' bgs**
 Screen slot size:
0.010"
 Sand Pack: **2/12**





BORING LOG

Client **Shell Oil Products US**
 Project Number **SCA4895H1D**

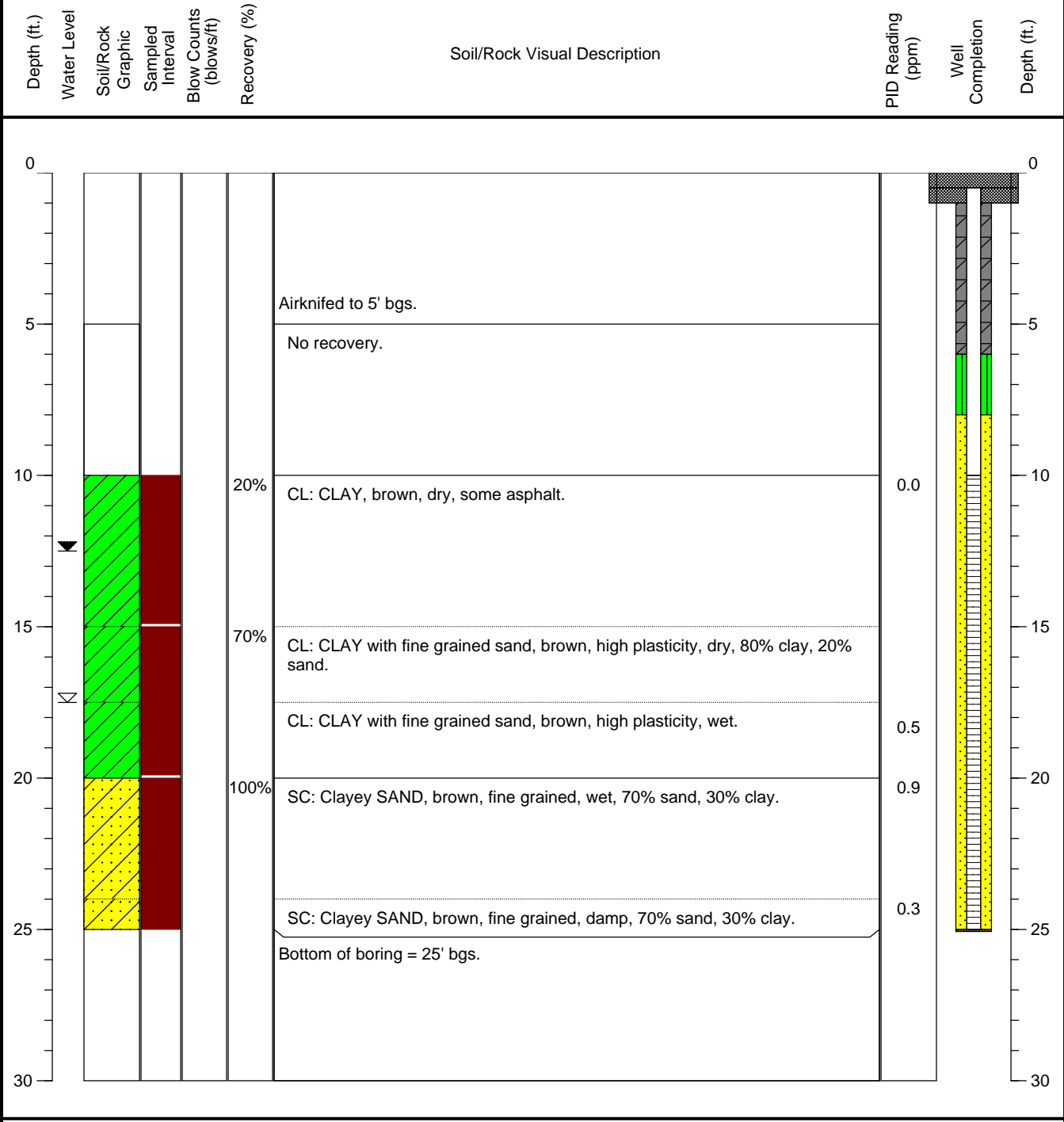
Well No.
MW-6

Address:
4895 Hacienda Drive
Dublin, CA
 Logged By:
Cora Olson

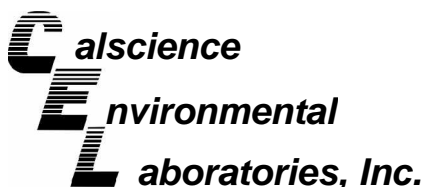
Drilling Date(s): **02/17/10**
 Drilling Company:
RSI
 Drilling Method:
HSA
 Boring Depth (ft.): **25'**

Boring diameter (in.): **10"**
 Sampling Method: **5' Core-barrel**
 Well Depth (ft.): **25'**
 Casing Diameter (in.): **4"**

Casing Material:
Sch 40 PVC
 Screen Interval: **10' - 25' bgs**
 Screen slot size:
0.010"
 Sand Pack: **2/12**



ATTACHMENT D
SIEVE ANALYSIS RESULTS



Supplemental Report 1

March 08, 2010

Subcontract analyses are reported as a stand-alone report.

Regina Bussard
Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Subject: **CalScience Work Order No.: 10-02-1762**
Client Reference: 4895 Hacienda Drive, Dublin, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/20/2010 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in cursive script that reads "Philip Samelle for".

CalScience Environmental
Laboratories, Inc.
Xuan H. Dang
Project Manager

Work Order Number: 10-02-1762

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



LAB (LOCATION)

- CALSCIENCE ()
- SPL ()
- XENCO ()
- TEST AMERICA ()
- OTHER ()



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input checked="" type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

Print Bill To Contact Name: _____

INCIDENT # (ENV SERVICES): 9 7 7 9 5 8 9 3 CHECK IF NO INCIDENT # APPLIES

PO #: _____ **SAP #:** _____

DATE: 2-19-10 **PAGE:** _____ of _____

SAMPLING COMPANY: Delta Consultants **LOG CODE:** _____

ADDRESS: 312 Piercy Road; San Jose, CA 95138

PROJECT CONTACT (Hardcopy or PDF Report to): Regina Bussard

TELEPHONE: 408-826-1876 **FAX:** 408-225-8506 **E-MAIL:** Rbussard@deltaenv.com

TURNAROUND TIME (CALENDAR DAYS):
 STANDARD (14 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT UST AGENCY:

SITE ADDRESS: Street and City: 4895 Hacienda Drive ; Dublin **State:** CA **GLOBAL ID NO.:** _____

EDF DELIVERABLE TO (Name, Company, Office Location): Angela Pico **PHONE NO.:** 408-826-1862 **E-MAIL:** apico@deltaenv.com **CONSULTANT PROJECT NO.:** SCA4895H1D

SAMPLER NAME(S) (Print): Cora Olson **LAB USE ONLY:** 10-02-1762

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	REQUESTED ANALYSIS												TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER		TPH-G Purgeable (8260B)	BTEX (8260B)	5 Shell Oxygenates (8260B)	EDB (8260B)	EDC (8260B)	Ethanol (8260B)	TPH-D Extractable (8015M)	+ diesel tank	+ waste oil tank	Waste Characterization				

SPECIAL INSTRUCTIONS OR NOTES:
 Send results to: colson@deltaenv.com
 SHELL CONTRACT RATE APPLIES
 STATE REIMBURSEMENT RATE APPLIES
 EDD NOT NEEDED
 RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	REQUESTED ANALYSIS												TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes			
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER		TPH-G Purgeable (8260B)	BTEX (8260B)	5 Shell Oxygenates (8260B)	EDB (8260B)	EDC (8260B)	Ethanol (8260B)	TPH-D Extractable (8015M)	+ diesel tank	+ waste oil tank	Waste Characterization							
	1 MW-2 @ 20'	2/16/10	9:50	Soil				X		1	X	X	X	X	X	X	X								X		
	2 MW-2 @ 30'	2/16/10	10:05								X	X	X	X	X	X	X										
	3 MW-1 @ 20'	2/16/10	13:50								X	X	X	X	X	X	X										
	4 MW-1 @ 30'	2/16/10	14:00								X	X	X	X	X	X	X										
	5 MW-4 @ 25' 25'	2/17/10	12:00								X	X	X	X	X	X	X										
	6 MW-6 @ 20'	2/17/10	15:20								X	X	X	X	X	X	X										
	7 MW-6 @ 25'	2-17-10	15:30								X	X	X	X	X	X	X										
	8 MW-3 @ 23'	2-18-10	9:45								X	X	X	X	X	X	X								X		

Relinquished by: (Signature)	Received by: (Signature)	Date: 2-19-10	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date: 2-20-10	Time: 9:30
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

1762

PLEASE PRESS FIRMLY

1	DATE	2-18-10		
	COMPANY	Delta Consultants		
	ADDRESS	312 Percy Rd		
	ADDRESS	STE/ ROOM		
	CITY	ZIP CODE	95138	
2	SENDERS NAME	PHONE NUMBER	408-826-1877	
	COMPANY NAME	PHONE NUMBER		
3	ADDRESS	STE/ ROOM		
	ADDRESS	ZIP CODE	92844	
	CITY	GARDEN GROVE		
4	YOUR INTERNAL BILLING REFERENCE WILL APPEAR ON YOUR INVOICE			
SPECIAL INSTRUCTIONS				



SHIPPING AIR BILL

4 PACKAGE INFORMATION

LETTER (MAX 8 OZ)

PACKAGE (WT) _____

DECLARED VALUE \$ _____

COD AMOUNT \$ _____
(CASH NOT ACCEPTED)

PACKAGE LABEL

5 DELIVERY SERVICE PRIORITY OVERNIGHT BY 10:30 AM EARLY PRIORITY BY 8:00 AM SATURDAY DELIVERY

*DELIVERY TIMES MAY BE LATER IN SOME AREAS • CONSULT YOUR SERVICE GUIDE OR CALL GOLDEN STATE OVERNIGHT.

6 RELEASE SIGNATURE _____
SIGN TO AUTHORIZE DELIVERY WITHOUT OBTAINING SIGNATURE

7 _____

8 PICK UP INFORMATION

TIME _____ DRIVER # _____ ROUTE # _____

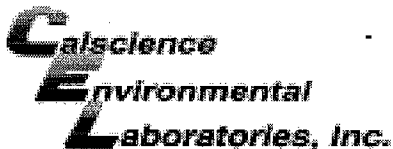
105723794

PEEL OFF HERE

105723794

9 GSO TRACKING NUMBER

1762



WORK ORDER #: 10-02-1762

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Delta

DATE: 02/20/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 3.1 °C + 0.5°C (CF) = 3.6 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: JD

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: JD

Sample _____ No (Not Intact) Not Present Initial: P.L

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Collection date/time, <u>matrix</u> , and/or # of <u>containers</u> logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input checked="" type="checkbox"/> No date/ <u>time</u> relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (B) EnCores® TerraCores® _____

Water: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 500PB 500PB_{na}

250PB 250PB_n 125PB 125PB_{z_{na}} 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** _____ **Checked by:** DL

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** PS

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** DL

WORK ORDER #: 10-02-1762

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

- Samples/Containers NOT RECEIVED but listed on COC
- Samples/Containers received but NOT LISTED on COC
- Holding time expired – list sample ID(s) and test
- Insufficient quantities for analysis – list test
- Improper container(s)/preservative used – list test
- No preservative noted on COC or label – list test & notify lab
- Sample labels illegible – note test/container type
- Sample labels do not match COC – Note in comments
 - Sample ID
 - Date and/or Time Collected
 - Project Information
 - # of Containers
 - Analysis
- Sample containers compromised – Note in comments
 - Leaking
 - Broken
 - Without Labels
- Air sample containers compromised – Note in comments
 - Flat
 - Very low in volume
 - Leaking (Not transferred - duplicate bag submitted)
 - Leaking (transferred into Calscience Tedlar® Bag*)
 - Leaking (transferred into Client's Tedlar® Bag*)
- Other: see comments

Comments:

(-1) to (-8) samples submerged
in water when received.
(ice was all melted)

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: D.L 02/22/10



March 1, 2010

Philip Sanelle
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92641-1432

Re: Physical Properties Analyses
Project: 10-02-1762
CL File No: 410017EN

Dear Mr. Sanelle:

Enclosed are final grain size distribution results for samples submitted from your Project # 10-02-1762. An electronic version of the report has previously been sent to your attention.

Appropriate ASTM, EPA or API methodologies were used for this project and SOP's are available on request. Samples for this project are currently in storage and will be retained for thirty days past completion of testing at no charge. At the end of thirty days the samples will be disposed. You may contact me regarding continued storage, disposal or return of the samples.

We appreciate the opportunity to be of service to Calscience Environmental Laboratories, Inc. and trust these data will prove beneficial in the development of this project. Please do not hesitate to contact us (661-325-5657) if you have any questions regarding these results, or if we can be of any additional service.

Sincerely,
Core Laboratories LP

Jeffrey L. Smith
ARP Supervisor

Encl.



SIEVE and LASER PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D422/D4464M)

Petroleum Services

Calscience Environmental Laboratories, Inc.
 Proj. No. : 10-02-1762

Core Lab File No: 57111-410017EN
 Date : 2/25/2010

Sample ID	Depth, ft.	Grain Size Description (Mean from Folk)	Median Grain Size, mm	Component Percentages							Silt & Clay	
				Gravel	Sand Size				Silt	Clay		
					VCoarse	Coarse	Medium	Fine				VFine
MW-2-20'	20.0	vfgr	0.218	9.41	2.58	11.11	22.91	14.68	6.52	18.93	13.86	32.8
MW-3-23'	23.0	silt	0.086	2.60	1.16	4.66	11.53	19.66	15.93	29.37	15.07	44.4



Company : Calscience Environmental Laboratories, Inc.
 Proj. No. : 10-02-1762

C.L. File No. : 57111-410017EN
 Date : 2/25/2010

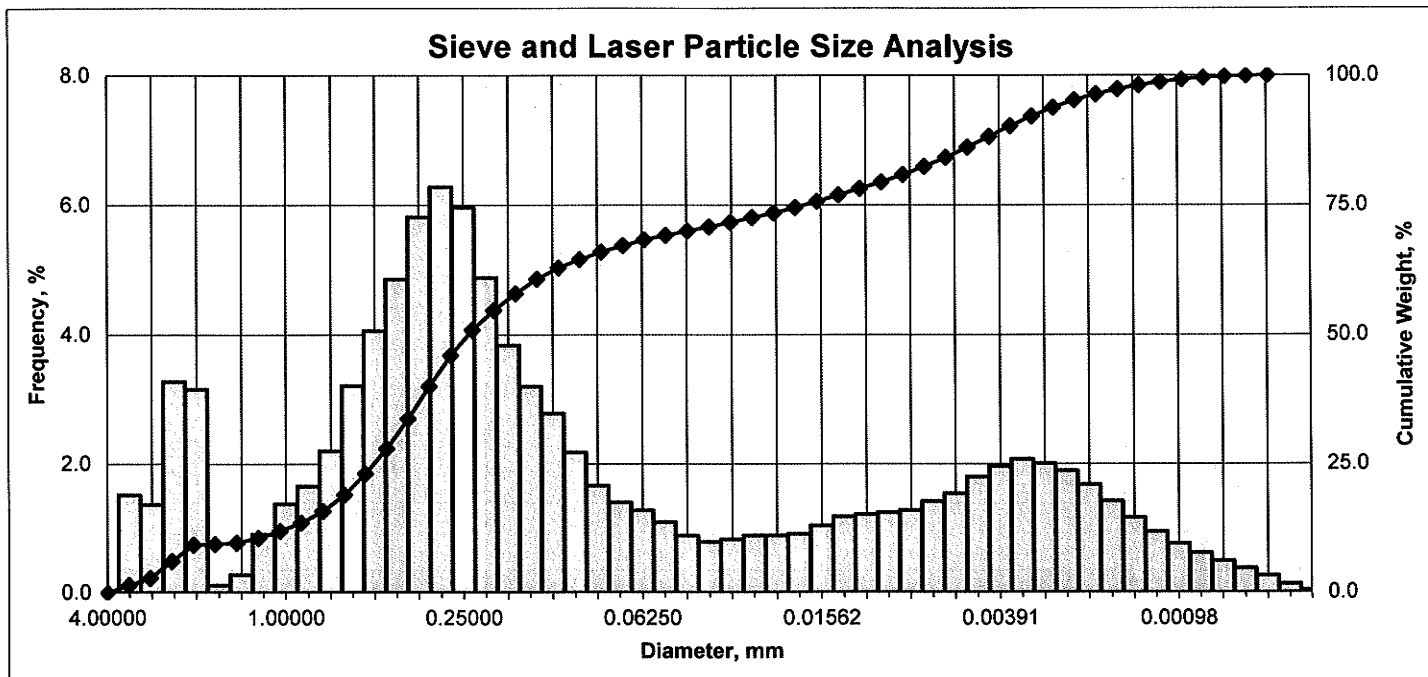
Sieve and Laser Particle Size Analysis (Metric)

Sample ID	Component Percentages								Percentiles										Sorting Statistics (Folk)				
	Gravel	Sand					Fines		Particle Diameter (mm)										Median mm	Mean mm	Sorting ϕ	Skew.	Kurt.
		vcgr	cgr	mgr	fgr	vfgr	silt	clay	5	10	16	25	40	50	75	84	90	95					
MW-2-20'	9.41	2.58	11.11	22.91	14.68	6.52	18.93	13.86	2.5516	1.3187	0.7000	0.4644	0.2977	0.2179	0.0145	0.0047	0.0028	0.0017	0.218	0.090	3.403	0.430	0.865
									gran	vcgr	cgr	mgr	mgr	fgr	silt	silt	clay	clay	fgr	vfgr	v. Poor	str. fine	platykurtic
MW-3-23'	2.60	1.16	4.66	11.53	19.66	15.93	29.37	15.07	0.7104	0.4370	0.3000	0.2019	0.1236	0.0858	0.0086	0.0042	0.0026	0.0016	0.086	0.048	2.871	0.359	0.791
									cgr	mgr	mgr	fgr	vfgr	vfgr	silt	silt	clay	clay	vfgr	silt	v. Poor	str. fine	platykurtic



Company : Calscience Environmental Laboratories, Inc.
 Proj. No. : 10-02-1762

CL File No. : 57111-410017EN
 Sample ID : MW-2-20'



	Particle Size Distribution				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	1.519	1.52
	7	0.111355	2.82843	-1.50	1.369	2.89
	8	0.093638	2.37841	-1.25	3.273	6.16
V Crse Sand	10	0.078740	2.00000	-1.00	3.153	9.31
	12	0.066212	1.68179	-0.75	0.115	9.43
	14	0.055678	1.41421	-0.50	0.279	9.71
	16	0.046819	1.18921	-0.25	0.905	10.61
Coarse Sand	18	0.039370	1.00000	0.00	1.377	11.99
	20	0.033106	0.84090	0.25	1.648	13.64
	25	0.027839	0.70711	0.50	2.197	15.83
	30	0.023410	0.59460	0.75	3.209	19.04
Medium Sand	35	0.019685	0.50000	1.00	4.056	23.10
	40	0.016553	0.42045	1.25	4.855	27.95
	45	0.013919	0.35355	1.50	5.812	33.77
	50	0.011705	0.29730	1.75	6.281	40.05
Fine Sand	60	0.009843	0.25000	2.00	5.962	46.01
	70	0.008277	0.21022	2.25	4.877	50.89
	80	0.006960	0.17678	2.50	3.834	54.72
	100	0.005852	0.14865	2.75	3.195	57.91
V. Fine Sand	120	0.004921	0.12500	3.00	2.777	60.69
	140	0.004138	0.10511	3.25	2.177	62.87
	170	0.003480	0.08839	3.50	1.661	64.53
	200	0.002926	0.07433	3.75	1.400	65.93
Silt	230	0.002461	0.06250	4.00	1.280	67.21
	270	0.002069	0.05256	4.25	1.096	68.31
	325	0.001740	0.04419	4.50	0.886	69.19
	400	0.001463	0.03716	4.75	0.787	69.98
	450	0.001230	0.03125	5.00	0.824	70.80
	500	0.001035	0.02628	5.25	0.886	71.69
	635	0.000870	0.02210	5.50	0.884	72.57
		0.000732	0.01858	5.75	0.911	73.49
		0.000615	0.01562	6.00	1.039	74.52
		0.000517	0.01314	6.25	1.178	75.70
		0.000435	0.01105	6.50	1.215	76.92
		0.000366	0.00929	6.75	1.243	78.16
		0.000308	0.00781	7.00	1.276	79.44
	0.000259	0.00657	7.25	1.416	80.85	
	0.000217	0.00552	7.50	1.535	82.39	
	0.000183	0.00465	7.75	1.793	84.18	
	0.000154	0.00391	8.00	1.960	86.14	
Clay		0.000129	0.00328	8.25	2.066	88.21
		0.000109	0.00276	8.50	2.005	90.21
		0.000091	0.00232	8.75	1.892	92.10
		0.000077	0.00195	9.00	1.676	93.78
		0.000065	0.00164	9.25	1.420	95.20
		0.000054	0.00138	9.50	1.163	96.36
		0.000046	0.00116	9.75	0.947	97.31
		0.000038	0.00098	10.00	0.759	98.07
		0.000032	0.00082	10.25	0.619	98.69
		0.000027	0.00069	10.50	0.494	99.18
		0.000023	0.00058	10.75	0.379	99.56
		0.000019	0.00049	11.00	0.264	99.82
		0.000016	0.00041	11.25	0.134	99.96
		0.000015	0.00038	11.50	0.042	100.00

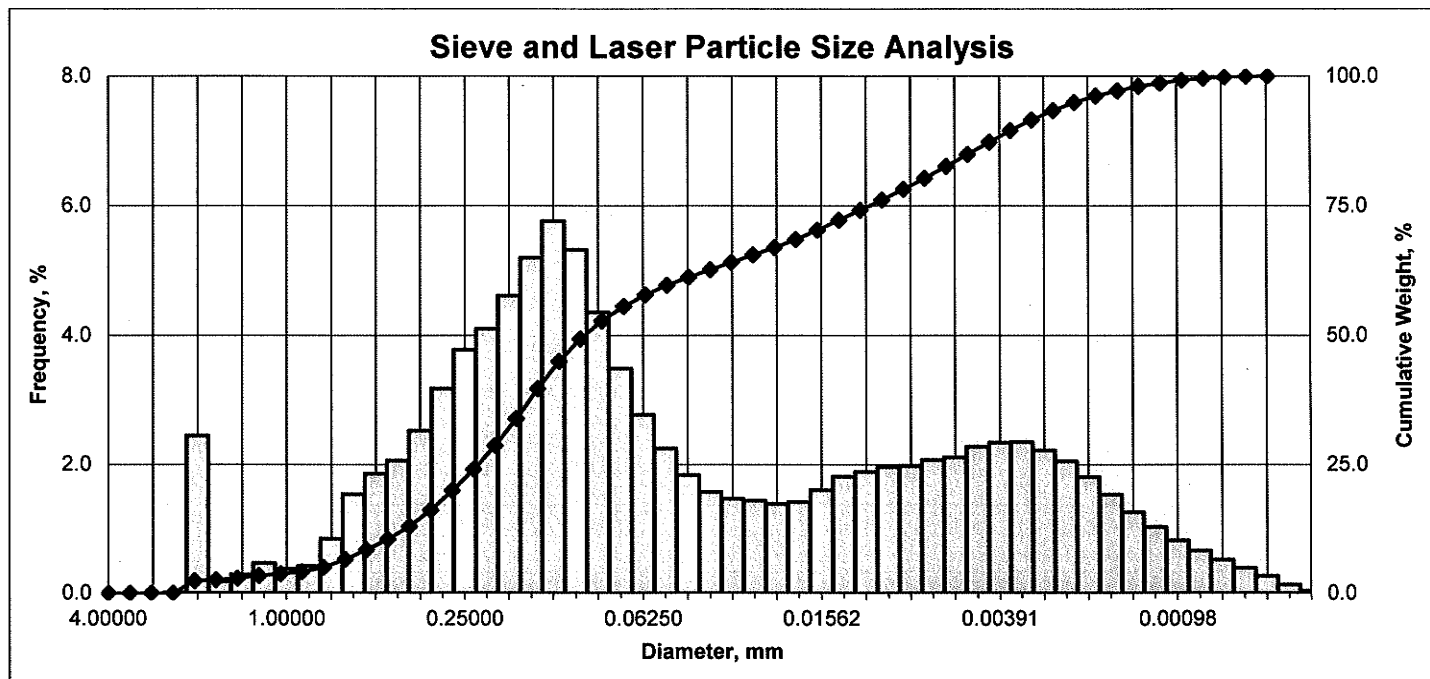
Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Fine sand sized			
(in)	0.0086	0.0086	0.0086	
(mm)	0.2179	0.2179	0.2179	
Mean	Very fine sand sized			
(in)	0.0094	0.0023	0.0035	
(mm)	0.2395	0.0575	0.0897	
Sorting	V. Poor			
	5.661	0.082	3.403	
Skewness	Strongly fine skewed			
	0.376	0.480	0.430	
Kurtosis	Platykurtic			
	0.171	0.465	0.865	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
9.41	57.80	18.93	13.86	32.79
Percentile [Weight, %]		Particle Diameter		
		(in.)	(mm)	(phi)
5		0.1005	2.5516	-1.3514
10		0.0519	1.3187	-0.3991
16		0.0276	0.7000	0.5145
25		0.0183	0.4644	1.1065
40		0.0117	0.2977	1.7481
50		0.0086	0.2179	2.1982
75		0.0006	0.0145	6.1087
84		0.0002	0.0047	7.7241
90		0.0001	0.0028	8.4733
95		0.0001	0.0017	9.2119

** Distribution pattern precludes calculation of these statistical parameters.



Company : Calscience Environmental Laboratories, Inc.
 Proj. No. : 10-02-1762

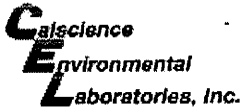
CL File No. : 57111-410017EN
 Sample ID : MW-3-23'



	Diameter				Weight %	
	[US Mesh]	[in.]	[mm]	[φ]	[Incl.]	[Cum.]
Granule	5	0.157480	4.00000	-2.00	0.000	0.00
	6	0.132425	3.36359	-1.75	0.000	0.00
	7	0.111355	2.82843	-1.50	0.000	0.00
	8	0.093638	2.37841	-1.25	0.011	0.01
V Crse Sand	10	0.078740	2.00000	-1.00	2.444	2.45
	12	0.066212	1.68179	-0.75	0.178	2.63
	14	0.055678	1.41421	-0.50	0.286	2.92
	16	0.046819	1.18921	-0.25	0.469	3.39
	18	0.039370	1.00000	0.00	0.379	3.77
	20	0.033106	0.84090	0.25	0.422	4.19
Coarse Sand	25	0.027839	0.70711	0.50	0.847	5.04
	30	0.023410	0.59460	0.75	1.535	6.57
	35	0.019685	0.50000	1.00	1.857	8.43
Medium Sand	40	0.016553	0.42045	1.25	2.060	10.49
	45	0.013919	0.35355	1.50	2.523	13.01
	50	0.011705	0.29730	1.75	3.175	16.19
	60	0.009843	0.25000	2.00	3.776	19.96
Fine Sand	70	0.008277	0.21022	2.25	4.095	24.06
	80	0.006960	0.17678	2.50	4.608	28.66
	100	0.005852	0.14865	2.75	5.198	33.86
V. Fine Sand	120	0.004921	0.12500	3.00	5.763	39.63
	140	0.004138	0.10511	3.25	5.318	44.94
	170	0.003480	0.08839	3.50	4.353	49.30
	200	0.002926	0.07433	3.75	3.488	52.78
Silt	230	0.002461	0.06250	4.00	2.770	55.55
	270	0.002069	0.05256	4.25	2.247	57.80
	325	0.001740	0.04419	4.50	1.834	59.63
	400	0.001463	0.03716	4.75	1.569	61.20
	450	0.001230	0.03125	5.00	1.469	62.67
	500	0.001035	0.02628	5.25	1.435	64.11
	635	0.000870	0.02210	5.50	1.387	65.49
		0.000732	0.01858	5.75	1.418	66.91
		0.000615	0.01562	6.00	1.600	68.51
		0.000517	0.01314	6.25	1.808	70.32
		0.000435	0.01105	6.50	1.886	72.21
		0.000366	0.00929	6.75	1.961	74.17
		0.000308	0.00781	7.00	1.975	76.14
		0.000259	0.00657	7.25	2.066	78.21
		0.000217	0.00552	7.50	2.108	80.32
	0.000183	0.00465	7.75	2.274	82.59	
	0.000154	0.00391	8.00	2.338	84.93	
Clay		0.000129	0.00328	8.25	2.348	87.28
		0.000109	0.00276	8.50	2.216	89.49
		0.000091	0.00232	8.75	2.050	91.54
		0.000077	0.00195	9.00	1.803	93.35
		0.000065	0.00164	9.25	1.529	94.87
		0.000054	0.00138	9.50	1.258	96.13
		0.000046	0.00116	9.75	1.027	97.16
		0.000038	0.00098	10.00	0.820	97.98
		0.000032	0.00082	10.25	0.682	98.64
		0.000027	0.00069	10.50	0.520	99.16
		0.000023	0.00058	10.75	0.392	99.55
		0.000019	0.00049	11.00	0.269	99.82
		0.000016	0.00041	11.25	0.135	99.96
		0.000015	0.00038	11.50	0.042	100.00

Sorting Statistics (Folk)				
Parameter	Trask	Inman	Folk	
Median	Very fine sand sized			
(in)	0.0034	0.0034	0.0034	
(mm)	0.0858	0.0858	0.0858	
Mean	Silt sized			
(in)	0.0041	0.0014	0.0019	
(mm)	0.1052	0.0354	0.0476	
Sorting	V. Poor			
	4.839	0.118	2.871	
Skewness	Strongly fine skewed			
	0.486	0.435	0.359	
Kurtosis	Platykurtic			
	0.222	0.424	0.791	
Component Percentages				
Gravel	Sand	Silt	Clay	Silt + Clay
2.60	52.95	29.37	15.07	44.45
Percentile (Weight %)		Particle Diameter		
		(in.)	(mm)	(phi)
5		0.0280	0.7104	0.4933
10		0.0172	0.4370	1.1944
16		0.0118	0.3000	1.7369
25		0.0079	0.2019	2.3085
40		0.0049	0.1236	3.0168
50		0.0034	0.0858	3.5435
75		0.0003	0.0086	6.8582
84		0.0002	0.0042	7.9007
90		0.0001	0.0026	8.5600
95		0.0001	0.0016	9.2727

** Distribution pattern precludes calculation of these statistical parameters.



7440 LINCOLN WAY
 GARDEN GROVE, CA 92841-1427
 TEL: (714) 895-5494 . FAX: (714) 894-7501

TO: Core Labs

41007EA
2/23

CHAIN OF CUSTODY RECORD

DATE: 02/22/10
 PAGE: 1 OF 1

LABORATORY CLIENT: Calscience Environmental Laboratories, Inc.		CLIENT PROJECT NAME / NUMBER: 10-02-1762	P.O. NO.: 10-02-1762
ADDRESS: 7440 Lincoln Way		PROJECT CONTACT: Philip Sanelle	QUOTE NO.:
CITY: Garden Grove, CA 92841-1427		SAMPLER(S): (PRINT)	LAB USE ONLY
TEL: (714) 895-5494	E-MAIL: psanelle@calscience.com		

TURNAROUND TIME
 SAME DAY 24 HR 48HR 72 HR 5 DAYS NORMAL

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
 RWQCB REPORTING ARCHIVE SAMPLES UNTIL ___/___/___

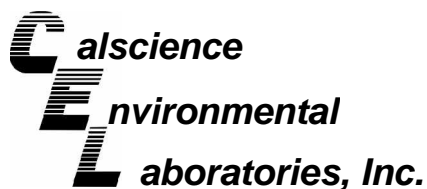
SPECIAL INSTRUCTIONS

LAB USE ONLY	SAMPLE ID	SAMPLING		Matrix	#Cont	Sieve Analysis	REQUESTED ANALYSIS														
		DATE	TIME				1	2	3	4	5	6	7	8	9	10					
	MW-2@20'	02/16/10	09:50	S	1	X															
	MW-3@23'	02/18/10	9:45	S	1	X															

Relinquished by: (Signature) <i>Wobath</i>	Received by / Affiliation: (Signature) GSD 513614541	Date: 2/22/10	Time: 1615
Relinquished by: (Signature) <i>James Nyls Thy/h</i>	Received by / Affiliation: (Signature) <i>James Nyls Thy/h</i>	Date: 2.23.10	Time: 1200
Relinquished by: (Signature)	Received by / Affiliation: (Signature)	Date:	Time:

ATTACHMENT E

**CERTIFIED ANALYTICAL REPORTS
WITH CHAIN-OF-CUSTODY DOCUMENTATION**



March 05, 2010

Regina Bussard
Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Subject: **CalScience Work Order No.: 10-02-1762**
Client Reference: 4895 Hacienda Drive, Dublin, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/20/2010 and analyzed in accordance with the attached chain-of-custody.

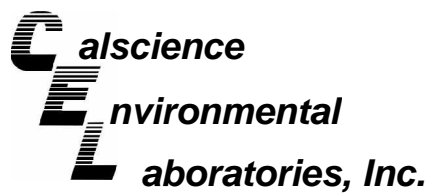
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Philip Samelle for".

CalScience Environmental
Laboratories, Inc.
Xuan H. Dang
Project Manager



Analytical Report



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 02/20/10
Work Order No: 10-02-1762
Preparation: EPA 3550B
Method: EPA 8015B

Project: 4895 Hacienda Drive, Dublin, CA

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2@20'	10-02-1762-1-A	02/16/10 09:50	Solid	GC 43	02/23/10	02/24/10 02:35	100223B04

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	111	61-145			

MW-2@30'	10-02-1762-2-A	02/16/10 10:05	Solid	GC 43	02/23/10	02/24/10 02:55	100223B04
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Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	118	61-145			

MW-1@20'	10-02-1762-3-A	02/16/10 13:50	Solid	GC 43	02/23/10	02/24/10 03:15	100223B04
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Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	120	61-145			

MW-1@30'	10-02-1762-4-A	02/16/10 14:00	Solid	GC 43	02/23/10	02/24/10 03:35	100223B04
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Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	120	61-145			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 02/20/10
Work Order No: 10-02-1762
Preparation: EPA 3550B
Method: EPA 8015B

Project: 4895 Hacienda Drive, Dublin, CA

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4@25'	10-02-1762-5-A	02/17/10 12:00	Solid	GC 43	02/23/10	02/24/10 03:55	100223B04

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	117	61-145			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6@20'	10-02-1762-6-A	02/17/10 15:20	Solid	GC 43	02/23/10	02/24/10 04:16	100223B04

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	114	61-145			

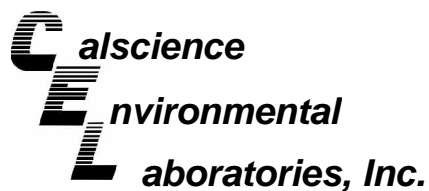
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6@25'	10-02-1762-7-A	02/17/10 15:30	Solid	GC 43	02/23/10	02/24/10 04:36	100223B04

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	118	61-145			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3@23'	10-02-1762-8-A	02/18/10 09:45	Solid	GC 43	02/23/10	02/24/10 04:56	100223B04

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	111	61-145			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 02/20/10
Work Order No: 10-02-1762
Preparation: EPA 3550B
Method: EPA 8015B

Project: 4895 Hacienda Drive, Dublin, CA

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-025-983	N/A	Solid	GC 43	02/23/10	02/23/10 18:52	100223B04

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Diesel Range Organics	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	98	61-145			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 02/20/10
Work Order No: 10-02-1762
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: mg/kg

Project: 4895 Hacienda Drive, Dublin, CA

Page 1 of 5

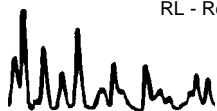
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2@20'	10-02-1762-1-A	02/16/10 09:50	Solid	GC/MS RR	02/26/10	02/26/10 16:19	100226L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dibromoethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
1,2-Dichloroethane	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethanol	ND	0.50	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	0.0097	0.0050	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	101	71-137			1,2-Dichloroethane-d4	98	58-160		
Toluene-d8	100	87-111			1,4-Bromofluorobenzene	92	66-126		
Toluene-d8-TPPH	105	87-111							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2@30'	10-02-1762-2-A	02/16/10 10:05	Solid	GC/MS RR	02/26/10	02/26/10 16:46	100226L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dibromoethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
1,2-Dichloroethane	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethanol	ND	0.50	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	104	71-137			1,2-Dichloroethane-d4	107	58-160		
Toluene-d8	99	87-111			1,4-Bromofluorobenzene	93	66-126		
Toluene-d8-TPPH	104	87-111							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Delta Environmental Consultants, Inc.
 312 Piercy Rd.
 San Jose, CA 95138-1401

Date Received: 02/20/10
 Work Order No: 10-02-1762
 Preparation: EPA 5030B
 Method: LUFT GC/MS / EPA 8260B
 Units: mg/kg

Project: 4895 Hacienda Drive, Dublin, CA

Page 2 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1@20'	10-02-1762-3-A	02/16/10 13:50	Solid	GC/MS RR	02/26/10	02/26/10 17:14	100226L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dibromoethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
1,2-Dichloroethane	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethanol	ND	0.50	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	104	71-137			1,2-Dichloroethane-d4	99	58-160		
Toluene-d8	99	87-111			1,4-Bromofluorobenzene	90	66-126		
Toluene-d8-TPPH	103	87-111							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1@30'	10-02-1762-4-A	02/16/10 14:00	Solid	GC/MS RR	02/26/10	02/26/10 17:41	100226L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dibromoethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
1,2-Dichloroethane	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethanol	ND	0.50	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	106	71-137			1,2-Dichloroethane-d4	107	58-160		
Toluene-d8	100	87-111			1,4-Bromofluorobenzene	91	66-126		
Toluene-d8-TPPH	106	87-111							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 02/20/10
Work Order No: 10-02-1762
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: mg/kg

Project: 4895 Hacienda Drive, Dublin, CA

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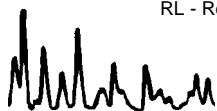
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4@25'	10-02-1762-5-A	02/17/10 12:00	Solid	GC/MS RR	02/26/10	02/26/10 14:30	100226L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dibromoethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
1,2-Dichloroethane	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethanol	ND	0.50	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	106	71-137			1,2-Dichloroethane-d4	105	58-160		
Toluene-d8	100	87-111			1,4-Bromofluorobenzene	92	66-126		
Toluene-d8-TPPH	106	87-111							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6@20'	10-02-1762-6-A	02/17/10 15:20	Solid	GC/MS RR	02/26/10	02/26/10 18:08	100226L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dibromoethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
1,2-Dichloroethane	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethanol	ND	0.50	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	102	71-137			1,2-Dichloroethane-d4	102	58-160		
Toluene-d8	99	87-111			1,4-Bromofluorobenzene	92	66-126		
Toluene-d8-TPPH	103	87-111							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Delta Environmental Consultants, Inc.
 312 Piercy Rd.
 San Jose, CA 95138-1401

Date Received: 02/20/10
 Work Order No: 10-02-1762
 Preparation: EPA 5030B
 Method: LUFT GC/MS / EPA 8260B
 Units: mg/kg

Project: 4895 Hacienda Drive, Dublin, CA

Page 4 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-6@25'	10-02-1762-7-A	02/17/10 15:30	Solid	GC/MS W	02/26/10	02/27/10 04:37	100226L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dibromoethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
1,2-Dichloroethane	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethanol	ND	0.50	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	96	71-137			1,2-Dichloroethane-d4	100	58-160		
Toluene-d8	96	87-111			1,4-Bromofluorobenzene	94	66-126		
Toluene-d8-TPPH	95	87-111							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3@23'	10-02-1762-8-A	02/18/10 09:45	Solid	GC/MS W	02/26/10	02/27/10 02:41	100226L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dibromoethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
1,2-Dichloroethane	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethanol	ND	0.50	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	94	71-137			1,2-Dichloroethane-d4	93	58-160		
Toluene-d8	97	87-111			1,4-Bromofluorobenzene	99	66-126		
Toluene-d8-TPPH	96	87-111							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Delta Environmental Consultants, Inc.
 312 Piercy Rd.
 San Jose, CA 95138-1401

Date Received: 02/20/10
 Work Order No: 10-02-1762
 Preparation: EPA 5030B
 Method: LUFT GC/MS / EPA 8260B
 Units: mg/kg

Project: 4895 Hacienda Drive, Dublin, CA

Page 5 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-847	N/A	Solid	GC/MS RR	02/26/10	02/26/10 14:03	100226L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dibromoethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
1,2-Dichloroethane	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethanol	ND	0.50	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	103	71-137			1,2-Dichloroethane-d4	101	58-160		
Toluene-d8	99	87-111			1,4-Bromofluorobenzene	91	66-126		
Toluene-d8-TPPH	103	87-111							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-850	N/A	Solid	GC/MS W	02/26/10	02/27/10 02:12	100226L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dibromoethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
1,2-Dichloroethane	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethanol	ND	0.50	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	89	71-137			1,2-Dichloroethane-d4	85	58-160		
Toluene-d8	99	87-111			1,4-Bromofluorobenzene	95	66-126		
Toluene-d8-TPPH	98	87-111							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

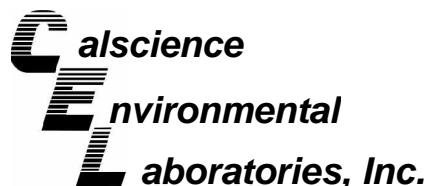
Date Received: 02/20/10
Work Order No: 10-02-1762
Preparation: EPA 3550B
Method: EPA 8015B

Project 4895 Hacienda Drive, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-02-1758-5	Solid	GC 43	02/23/10	02/23/10	100223S04

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	88	88	64-130	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 02/20/10
Work Order No: 10-02-1762
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA
8260B

Project 4895 Hacienda Drive, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-4@25'	Solid	GC/MS RR	02/26/10	02/26/10	100226S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	92	94	40-142	2	0-18	
Carbon Tetrachloride	95	97	37-139	2	0-20	
Chlorobenzene	93	92	43-127	1	0-26	
1,2-Dibromoethane	95	91	70-130	4	0-30	
1,2-Dichlorobenzene	89	89	40-160	0	0-36	
1,1-Dichloroethene	96	100	16-178	4	0-25	
Ethylbenzene	97	96	70-130	1	0-30	
Toluene	94	94	44-128	1	0-15	
Trichloroethene	96	97	47-131	2	0-19	
Vinyl Chloride	100	107	29-161	6	0-42	
Methyl-t-Butyl Ether (MTBE)	88	90	42-150	2	0-34	
Tert-Butyl Alcohol (TBA)	101	101	61-109	0	0-47	
Diisopropyl Ether (DIPE)	87	91	73-133	4	0-25	
Ethyl-t-Butyl Ether (ETBE)	89	92	73-132	4	0-25	
Tert-Amyl-Methyl Ether (TAME)	91	93	82-120	3	0-25	
Ethanol	88	107	39-117	19	0-99	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 02/20/10
Work Order No: 10-02-1762
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA
8260B

Project 4895 Hacienda Drive, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-02-1670-2	Solid	GC/MS W	02/26/10	02/26/10	100226S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	85	83	40-142	2	0-18	
Carbon Tetrachloride	73	73	37-139	1	0-20	
Chlorobenzene	79	77	43-127	2	0-26	
1,2-Dibromoethane	78	77	70-130	2	0-30	
1,2-Dichlorobenzene	73	73	40-160	1	0-36	
1,1-Dichloroethene	94	93	16-178	2	0-25	
Ethylbenzene	80	79	70-130	2	0-30	
Toluene	82	81	44-128	2	0-15	
Trichloroethene	88	86	47-131	2	0-19	
Vinyl Chloride	99	98	29-161	1	0-42	
Methyl-t-Butyl Ether (MTBE)	60	49	42-150	6	0-34	
Tert-Butyl Alcohol (TBA)	67	64	61-109	4	0-47	
Diisopropyl Ether (DIPE)	85	82	73-133	4	0-25	
Ethyl-t-Butyl Ether (ETBE)	86	83	73-132	3	0-25	
Tert-Amyl-Methyl Ether (TAME)	84	82	82-120	4	0-25	
Ethanol	89	78	39-117	13	0-99	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: N/A
Work Order No: 10-02-1762
Preparation: EPA 3550B
Method: EPA 8015B

Project: 4895 Hacienda Drive, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-983	Solid	GC 43	02/23/10	02/23/10	100223B04

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Diesel Range Organics	117	117	75-123	1	0-12	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: N/A
Work Order No: 10-02-1762
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 4895 Hacienda Drive, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-798-847	Solid	GC/MS RR	02/26/10	02/26/10	100226L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	96	98	85-115	80-120	3	0-11	
Carbon Tetrachloride	95	96	68-134	57-145	2	0-14	
Chlorobenzene	95	98	83-119	77-125	3	0-9	
1,2-Dibromoethane	99	99	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	94	97	57-135	44-148	2	0-10	
1,1-Dichloroethene	93	92	72-120	64-128	1	0-10	
Ethylbenzene	98	101	80-120	73-127	3	0-20	
Toluene	98	99	67-127	57-137	1	0-10	
Trichloroethene	97	100	88-112	84-116	4	0-9	
Vinyl Chloride	96	94	57-129	45-141	2	0-16	
Methyl-t-Butyl Ether (MTBE)	98	98	76-124	68-132	0	0-12	
Tert-Butyl Alcohol (TBA)	79	98	31-145	12-164	22	0-23	
Diisopropyl Ether (DIPE)	96	98	74-128	65-137	2	0-10	
Ethyl-t-Butyl Ether (ETBE)	99	98	77-125	69-133	1	0-9	
Tert-Amyl-Methyl Ether (TAME)	102	101	81-123	74-130	1	0-10	
Ethanol	72	91	44-152	26-170	24	0-24	
TPPH	100	102	65-135	53-147	1	0-30	

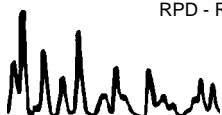
Total number of LCS compounds : 17

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: N/A
Work Order No: 10-02-1762
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 4895 Hacienda Drive, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-798-850	Solid	GC/MS W	02/26/10	02/27/10	100226L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	95	95	85-115	80-120	0	0-11	
Carbon Tetrachloride	63	67	68-134	57-145	6	0-14	ME
Chlorobenzene	91	93	83-119	77-125	3	0-9	
1,2-Dibromoethane	89	90	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	93	91	57-135	44-148	2	0-10	
1,1-Dichloroethene	87	87	72-120	64-128	0	0-10	
Ethylbenzene	91	92	80-120	73-127	1	0-20	
Toluene	94	95	67-127	57-137	1	0-10	
Trichloroethene	90	93	88-112	84-116	3	0-9	
Vinyl Chloride	91	92	57-129	45-141	0	0-16	
Methyl-t-Butyl Ether (MTBE)	95	94	76-124	68-132	1	0-12	
Tert-Butyl Alcohol (TBA)	87	85	31-145	12-164	2	0-23	
Diisopropyl Ether (DIPE)	90	90	74-128	65-137	0	0-10	
Ethyl-t-Butyl Ether (ETBE)	96	95	77-125	69-133	1	0-9	
Tert-Amyl-Methyl Ether (TAME)	98	98	81-123	74-130	0	0-10	
Ethanol	109	92	44-152	26-170	17	0-24	
TPPH	84	83	65-135	53-147	1	0-30	

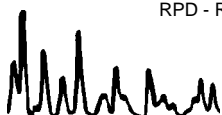
Total number of LCS compounds : 17

Total number of ME compounds : 1

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Glossary of Terms and Qualifiers



Work Order Number: 10-02-1762

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.





Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

- CALSCIENCE ()
- SPL ()
- XENCO ()
- TEST AMERICA ()
- OTHER ()

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input checked="" type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

Print Bill To Contact Name:						INCIDENT # (ENV SERVICES)						<input type="checkbox"/> CHECK IF NO INCIDENT # APPLIES	
						9 7 7 9 5 8 9 3						DATE: <u>2-19-10</u>	
PO #						SAP #						PAGE: ____ of ____	
						1 6 5 1 1 2							

SAMPLING COMPANY: Delta Consultants
LOG CODE:

ADDRESS: 312 Piercy Road; San Jose, CA 95138

PROJECT CONTACT (Hardcopy or PDF Report to): Regina Bussard

TELEPHONE: 408-826-1876 FAX: 408-225-8506 E-MAIL: Rbussard@deltaenv.com

TURNAROUND TIME (CALENDAR DAYS):
 STANDARD (14 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT UST AGENCY:

SITE ADDRESS: Street and City: 4895 Hacienda Drive ; Dublin State: CA GLOBAL ID NO.:

EDF DELIVERABLE TO (Name, Company, Office Location): Angela Pico PHONE NO.: 408-826-1862 E-MAIL: apico@deltaenv.com CONSULTANT PROJECT NO.: SCA4895H1D

SAMPLER NAME(S) (Print): Cora Olson

LAB USE ONLY
10-02-1762

SPECIAL INSTRUCTIONS OR NOTES :

Send results to: colson@deltaenv.com

SHELL CONTRACT RATE APPLIES
 STATE REIMBURSEMENT RATE APPLIES
 EDD NOT NEEDED
 RECEIPT VERIFICATION REQUESTED

		All sites				+ diesel tank	+ waste oil tank			Waste Characterization		TEMPERATURE ON RECEIPT °C	
		TPH-G Purgeable (8260B)	BTEX (8260B)	5 Shell Oxygenates (8260B)	EDB (8260B)	EDC (8260B)	Ethanol (8260B)	TPH-D Extractable (8015M)	Oil and grease (8015M)	CAM 17 Metals (6010)	Sieve Analysis		
LAB USE ONLY	Field Sample Identification	DATE	TIME	MATRIX	HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.		Container PID Readings or Laboratory Notes	
	1	MW-2 @ 20'	2/16/10	9:50	Soil				X		1	X	5- Shell Oxygenates =
	2	MW-2 @ 30'	2/16/10	10:05									MTBE, TBA, DIPE
	3	MW-1 @ 20'	2/16/10	13:50									ETBE, TAME
	4	MW-1 @ 30'	2/16/10	14:00									
	5	MW-4 @ 25' 25'	2/17/10	12:00									
	6	MW-6 @ 20'	2/17/10	15:20									
	7	MW-6 @ 25'	2-17-10	15:30									
8	MW-3 @ 23'	2-18-10	9:45									X	

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		2-19-10	
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		2-20-10	9:30
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

1762

PLEASE PRESS FIRMLY

FROM	1 DATE	2-18-10	
	COMPANY	Delta Consultants	
	ADDRESS	312 Percy Rd	
	ADDRESS	STE/ ROOM	
	CITY	ZIP CODE	San Jose 95138
TO	SENDER'S NAME	PHONE NUMBER	Cora Olson 408-826-1877
	2 COMPANY NAME	PHONE NUMBER	
	ADDRESS	STE/ ROOM	
	ADDRESS	ZIP CODE	7140 LINCOLN WAY 92844
	CITY		GARDEN GROVE
3	YOUR INTERNAL BILLING REFERENCE WILL APPEAR ON YOUR INVOICE		
SPECIAL INSTRUCTIONS			



SHIPPING AIR BILL

4 PACKAGE INFORMATION

LETTER (MAX 8 OZ)

PACKAGE (WT) _____

DECLARED VALUE \$ _____

COD AMOUNT \$ _____
(CASH NOT ACCEPTED)

PACKAGE LABEL

5 DELIVERY SERVICE PRIORITY OVERNIGHT BY 10:30 AM EARLY PRIORITY BY 8:00 AM SATURDAY DELIVERY

*DELIVERY TIMES MAY BE LATER IN SOME AREAS • CONSULT YOUR SERVICE GUIDE OR CALL GOLDEN STATE OVERNIGHT.

6 RELEASE SIGNATURE _____
SIGN TO AUTHORIZE DELIVERY WITHOUT OBTAINING SIGNATURE

7 _____

8 PICK UP INFORMATION _____

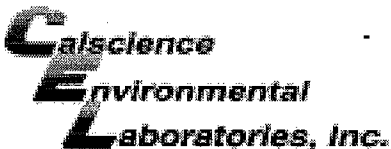
105723794

PEEL OFF HERE

105723794

9 GSO TRACKING NUMBER

1762



WORK ORDER #: 10-02-1762

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Delta

DATE: 02/20/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 3.1 °C + 0.5°C (CF) = 3.6 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: JD

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: JD

Sample _____ No (Not Intact) Not Present Initial: P.L

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Collection date/time, <u>matrix</u> , and/or # of <u>containers</u> logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input checked="" type="checkbox"/> No date/ <u>time</u> relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (B) EnCores® TerraCores® _____

Water: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s
 500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 500PB 500PB_{na}
 250PB 250PB_n 125PB 125PB_{z_{na}} 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Summa® Other: _____ Trip Blank Lot#: _____ Checked by: DL

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: PS
 Preservative: h: HCL n: HNO3 na₂: Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered Scanned by: DL

WORK ORDER #: 10-02-1762

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

- Samples/Containers NOT RECEIVED but listed on COC
- Samples/Containers received but NOT LISTED on COC
- Holding time expired – list sample ID(s) and test
- Insufficient quantities for analysis – list test
- Improper container(s)/preservative used – list test
- No preservative noted on COC or label – list test & notify lab
- Sample labels illegible – note test/container type
- Sample labels do not match COC – Note in comments
 - Sample ID
 - Date and/or Time Collected
 - Project Information
 - # of Containers
 - Analysis
- Sample containers compromised – Note in comments
 - Leaking
 - Broken
 - Without Labels
- Air sample containers compromised – Note in comments
 - Flat
 - Very low in volume
 - Leaking (Not transferred - duplicate bag submitted)
 - Leaking (transferred into Calscience Tedlar® Bag*)
 - Leaking (transferred into Client's Tedlar® Bag*)
- Other: see comments

Comments:

*(-1) to (-8) samples submerged
 in water when received.
 (ice was all melted)*

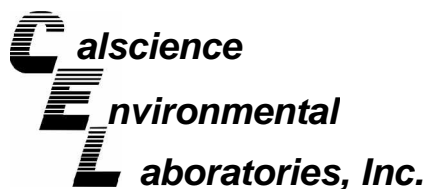
HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: D.L 02/22/10



March 04, 2010

Regina Bussard
Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Subject: **CalScience Work Order No.: 10-02-1670**
Client Reference: 4895 Hacienda Drive, Dublin, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/19/2010 and analyzed in accordance with the attached chain-of-custody.

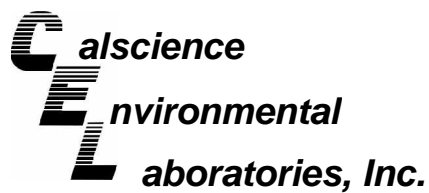
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in cursive script that reads 'Philip Samelle for'.

CalScience Environmental
Laboratories, Inc.
Xuan H. Dang
Project Manager



Analytical Report



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 02/19/10
Work Order No: 10-02-1670
Preparation: EPA 3550B
Method: EPA 8015B

Project: 4895 Hacienda Drive, Dublin, CA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5@39.5-40	10-02-1670-1-A	02/17/10 12:17	Solid	GC 49	02/20/10	02/20/10 20:28	100220B04

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Diesel Range Organics	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	109	61-145			

MW5@23.5-24	10-02-1670-2-A	02/17/10 12:02	Solid	GC 49	02/20/10	02/20/10 20:59	100220B04
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Diesel Range Organics	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	106	61-145			

Method Blank	099-12-025-980	N/A	Solid	GC 49	02/20/10	02/20/10 16:47	100220B04
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Diesel Range Organics	ND	5.0	1		mg/kg
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	
Decachlorobiphenyl	109	61-145			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Delta Environmental Consultants, Inc.
 312 Piercy Rd.
 San Jose, CA 95138-1401

Date Received: 02/19/10
 Work Order No: 10-02-1670
 Preparation: EPA 5030B
 Method: LUFT GC/MS / EPA 8260B
 Units: mg/kg

Project: 4895 Hacienda Drive, Dublin, CA

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5@39.5-40	10-02-1670-1-A	02/17/10 12:17	Solid	GC/MS W	02/26/10	02/26/10 16:29	100226L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dibromoethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
1,2-Dichloroethane	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethanol	ND	0.50	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	103	71-137			1,2-Dichloroethane-d4	114	58-160		
Toluene-d8	100	87-111			1,4-Bromofluorobenzene	100	66-126		
Toluene-d8-TPPH	97	87-111							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5@23.5-24	10-02-1670-2-A	02/17/10 12:02	Solid	GC/MS W	02/26/10	02/26/10 14:33	100226L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dibromoethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
1,2-Dichloroethane	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethanol	ND	0.50	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	0.057	0.0050	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	103	71-137			1,2-Dichloroethane-d4	113	58-160		
Toluene-d8	99	87-111			1,4-Bromofluorobenzene	98	66-126		
Toluene-d8-TPPH	97	87-111							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Delta Environmental Consultants, Inc.
 312 Piercy Rd.
 San Jose, CA 95138-1401

Date Received: 02/19/10
 Work Order No: 10-02-1670
 Preparation: EPA 5030B
 Method: LUFT GC/MS / EPA 8260B
 Units: mg/kg

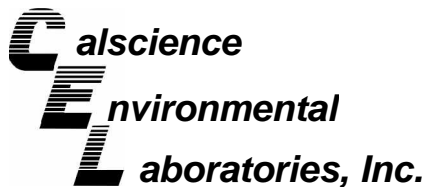
Project: 4895 Hacienda Drive, Dublin, CA

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-798-848	N/A	Solid	GC/MS W	02/26/10	02/26/10 14:04	100226L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.0050	1		Tert-Butyl Alcohol (TBA)	ND	0.050	1	
1,2-Dibromoethane	ND	0.0050	1		Diisopropyl Ether (DIPE)	ND	0.010	1	
1,2-Dichloroethane	ND	0.0050	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1	
Ethylbenzene	ND	0.0050	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1	
Toluene	ND	0.0050	1		Ethanol	ND	0.50	1	
Xylenes (total)	ND	0.0050	1		TPPH	ND	0.50	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	102	71-137			1,2-Dichloroethane-d4	109	58-160		
Toluene-d8	101	87-111			1,4-Bromofluorobenzene	97	66-126		
Toluene-d8-TPPH	100	87-111							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

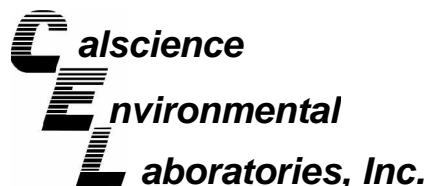
Date Received: 02/19/10
Work Order No: 10-02-1670
Preparation: EPA 3550B
Method: EPA 8015B

Project 4895 Hacienda Drive, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-02-1619-22	Solid	GC 49	02/20/10	02/20/10	100220S04

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	102	100	64-130	3	0-15	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 02/19/10
Work Order No: 10-02-1670
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 4895 Hacienda Drive, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW5@23.5-24	Solid	GC/MS W	02/26/10	02/26/10	100226S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	85	83	40-142	2	0-18	
Carbon Tetrachloride	73	73	37-139	1	0-20	
Chlorobenzene	79	77	43-127	2	0-26	
1,2-Dibromoethane	78	77	70-130	2	0-30	
1,2-Dichlorobenzene	73	73	40-160	1	0-36	
1,1-Dichloroethene	94	93	16-178	2	0-25	
Ethylbenzene	80	79	70-130	2	0-30	
Toluene	82	81	44-128	2	0-15	
Trichloroethene	88	86	47-131	2	0-19	
Vinyl Chloride	99	98	29-161	1	0-42	
Methyl-t-Butyl Ether (MTBE)	60	49	42-150	6	0-34	
Tert-Butyl Alcohol (TBA)	67	64	61-109	4	0-47	
Diisopropyl Ether (DIPE)	85	82	73-133	4	0-25	
Ethyl-t-Butyl Ether (ETBE)	86	83	73-132	3	0-25	
Tert-Amyl-Methyl Ether (TAME)	84	82	82-120	4	0-25	
Ethanol	89	78	39-117	13	0-99	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: N/A
Work Order No: 10-02-1670
Preparation: EPA 3550B
Method: EPA 8015B

Project: 4895 Hacienda Drive, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-025-980	Solid	GC 49	02/20/10	02/22/10	100220B04

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Diesel Range Organics	94	95	75-123	1	0-12	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: N/A
Work Order No: 10-02-1670
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 4895 Hacienda Drive, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-798-848	Solid	GC/MS W	02/26/10	02/26/10	100226L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	94	92	85-115	80-120	2	0-11	
Carbon Tetrachloride	77	82	68-134	57-145	6	0-14	
Chlorobenzene	94	93	83-119	77-125	1	0-9	
1,2-Dibromoethane	92	92	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	89	91	57-135	44-148	1	0-10	
1,1-Dichloroethene	94	99	72-120	64-128	5	0-10	
Ethylbenzene	94	93	80-120	73-127	1	0-20	
Toluene	95	91	67-127	57-137	4	0-10	
Trichloroethene	96	95	88-112	84-116	2	0-9	
Vinyl Chloride	95	99	57-129	45-141	3	0-16	
Methyl-t-Butyl Ether (MTBE)	94	96	76-124	68-132	2	0-12	
Tert-Butyl Alcohol (TBA)	86	85	31-145	12-164	1	0-23	
Diisopropyl Ether (DIPE)	93	97	74-128	65-137	4	0-10	
Ethyl-t-Butyl Ether (ETBE)	97	101	77-125	69-133	4	0-9	
Tert-Amyl-Methyl Ether (TAME)	98	96	81-123	74-130	2	0-10	
Ethanol	107	104	44-152	26-170	3	0-24	
TPPH	92	91	65-135	53-147	1	0-30	

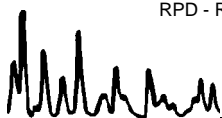
Total number of LCS compounds : 17

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 10-02-1670

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



LAB (LOCATION)

- CALSCIENCE ()
- SPL ()
- XENCO ()
- TEST AMERICA ()
- OTHER ()



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box: **MC**

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input checked="" type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

Print Bill To Contact Name: **Regina Bussard**

INCIDENT # (ENV SERVICES): **9 7 7 9 5 8 9 3**

PO #: _____ SAP #: _____

DATE: **2/18/10**

PAGE: **1** of **1**

SAMPLING COMPANY: **Delta Consultants** LOG CODE: _____

ADDRESS: **312 Piercy Road; San Jose, CA 95138**

PROJECT CONTACT (Hardcopy or PDF Report to): **Regina Bussard**

TELEPHONE: **408-826-1876** FAX: **408-225-8506** E-MAIL: **Rbussard@deltaenv.com**

TURNAROUND TIME (CALENDAR DAYS):
 STANDARD (14 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT UST AGENCY:

SITE ADDRESS: Street and City: **4895 Hacienda Drive ; Dublin** State: **CA** GLOBAL ID NO.: _____

EDF DELIVERABLE TO (Name, Company, Office Location): **Angela Pico** PHONE NO.: **408-826-1862** E-MAIL: **apico@deltaenv.com** CONSULTANT PROJECT NO.: **SCA4895H1D**

SAMPLER NAME(S) (Print): **Cora Olson** LAB USE ONLY: **02-1670**

SPECIAL INSTRUCTIONS OR NOTES :

Send results to: **colson@deltaenv.com**

SHELL CONTRACT RATE APPLIES
 STATE REIMBURSEMENT RATE APPLIES
 EDD NOT NEEDED
 RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

All sites		+ diesel tank	+ waste oil tank		Waste Characterization	TEMPERATURE ON RECEIPT C°									
TPH-G Purgeable (8260B)	BTEX (8260B)	5 Shell Oxygenates (8260B)	EDB (8260B)	EDC (8260B)	Ethanol (8260B)	TPH-D Extractable (8015M)	full suite VOCs (8260B)	1,2-DCA and EDB (8260B)	CAM 5 Metals (6010)	PNA and cresole (8270)	PCBs (8082)	TPH-D Extractable (8015M)	Oil and grease (8015M)	CAM 17 Metals (6010)	Container PID Readings or Laboratory Notes

LAB USE ONLY	Field Sample Identification				SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	REQUESTED ANALYSIS													TEMPERATURE ON RECEIPT C°		
	DATE	TIME			HCL	HNO3		H2SO4	NONE	OTHER	TPH-G Purgeable (8260B)	BTEX (8260B)		5 Shell Oxygenates (8260B)	EDB (8260B)	EDC (8260B)	Ethanol (8260B)	TPH-D Extractable (8015M)	full suite VOCs (8260B)	1,2-DCA and EDB (8260B)	CAM 5 Metals (6010)	PNA and cresole (8270)	PCBs (8082)	TPH-D Extractable (8015M)	Oil and grease (8015M)	CAM 17 Metals (6010)		Container PID Readings or Laboratory Notes	
1	MWS @ 39.5-40	2/17	12:17	Soil					X					1	X	X	X	X											5-Shell Oxygenates =
2	MWS @ 23.5-24	1	12:02	1					X					1	X	X	X	X											MTBE, TBA, DIPE
																													ETBE, TAME

Relinquished by: (Signature) Matt Coley 2/18/10	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) GSO	Received by: (Signature) Wdrath CEA	Date: 2/19/10	Time: 1000
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

1670

FROM

TO

3

GSO
GOLDEN STATE OVERNIGHT
1-800-322-5555
WWW.GSO.COM

SHIPPING AIR BILL

- 4 PACKAGE INFORMATION
- LETTER (MAX 8 OZ)
- PACKAGE (WT) _____
- DECLARED VALUE \$ _____
- COD AMOUNT \$ _____
(CASH NOT ACCEPTED)

GSO COPY

- 5 DELIVERY SERVICE
 - PRIORITY OVERNIGHT BY 10:30 AM
 - EARLY PRIORITY BY 8:00 AM
 - SATURDAY DELIVERY
- *DELIVERY TIMES MAY BE LATER IN SOME AREAS * CONSULT YOUR SERVICE GUIDE OR CALL GOLDEN STATE OVERNIGHT.

6 RELEASE SIGNATURE
SIGN TO AUTHORIZE DELIVERY WITHOUT OBTAINING SIGNATURE

7 CREDIT CARD
 M/C VISA AM EX
CREDIT CARD NUMBER _____

8 PICK UP INFORMATION
TIME _____ DRIVER # _____
105866731

9 GSO TRACKING NUMBER
3716010

OR

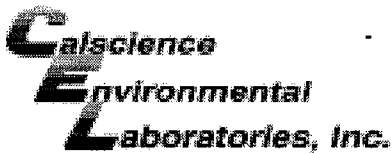
1
COMPANY Delta Consultants
ADDRESS 312 Pinery Rd
ADDRESS
CITY San Jose CA ZIP CODE 95138
SENDER'S NAME Matt Cook PHONE NUMBER 408 826 1076

2
COMPANY CAL SCIENCE
NAME PHONE NUMBER 714 895 5454

ADDRESS 740 LINCOLN WAY
ADDRESS STE/ROOM

CITY GARDEN GROVE ZIP CODE 92841

3
SPECIAL INSTRUCTIONS



WORK ORDER #: 10-02-1670

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: DELTA CONSULTANTS

DATE: 02/19/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 1.9 °C + 0.5°C (CF) = 2.4 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: WJ

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: WJ

Sample _____ No (Not Intact) Not Present Initial: WJ

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/> <u>WJ</u> <u>2-19-10</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input checked="" type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (P) EnCores® TerraCores® _____

Water: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

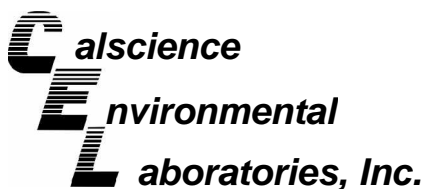
500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 500PB 500PB_{na}

250PB 250PB_n 125PB 125PB_{z_{na}} 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** _____ **Checked by:** WJ

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** WJ

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** WJ



March 04, 2010

Regina Bussard
Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Subject: **CalScience Work Order No.: 10-02-1668**
Client Reference: 4895 Hacienda Drive, Dublin, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/19/2010 and analyzed in accordance with the attached chain-of-custody.

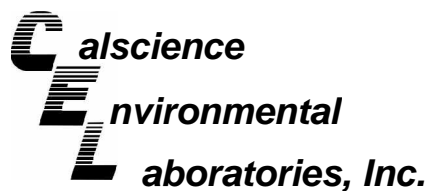
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Philip Samelle for".

CalScience Environmental
Laboratories, Inc.
Xuan H. Dang
Project Manager



Analytical Report



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 02/19/10
Work Order No: 10-02-1668
Preparation: EPA 3510C
Method: EPA 8015B

Project: 4895 Hacienda Drive, Dublin, CA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5@42	10-02-1668-1-H	02/17/10 02:05	Aqueous	GC 45	02/23/10	02/24/10 08:00	100223B05

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	55	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	90	68-140	

Method Blank	099-12-211-1,557	N/A	Aqueous	GC 45	02/23/10	02/24/10 02:59	100223B05
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Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	85	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 02/19/10
Work Order No: 10-02-1668
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 4895 Hacienda Drive, Dublin, CA

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-5@42	10-02-1668-1-A	02/17/10 02:05	Aqueous	GC/MS X	02/24/10	02/24/10 18:53	100224L01

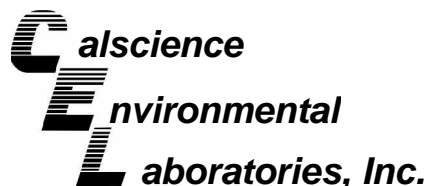
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dibromoethane	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloroethane	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Ethylbenzene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Toluene	ND	1.0	1		Ethanol	ND	100	1	
Xylenes (total)	ND	1.0	1		TPPH	ND	50	1	
Methyl-t-Butyl Ether (MTBE)	1.2	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	113	80-132			1,2-Dichloroethane-d4	117	80-141		
Toluene-d8	95	80-120			Toluene-d8-TPPH	95	88-112		
1,4-Bromofluorobenzene	83	76-120							

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
	099-12-767-3,485	N/A	Aqueous	GC/MS X	02/24/10	02/24/10 18:21	100224L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
1,2-Dibromoethane	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloroethane	ND	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Ethylbenzene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Toluene	ND	1.0	1		Ethanol	ND	100	1	
Xylenes (total)	ND	1.0	1		TPPH	ND	50	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Dibromofluoromethane	106	80-132			1,2-Dichloroethane-d4	107	80-141		
Toluene-d8	97	80-120			Toluene-d8-TPPH	96	88-112		
1,4-Bromofluorobenzene	82	76-120							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: 02/19/10
Work Order No: 10-02-1668
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 4895 Hacienda Drive, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-5@42	Aqueous	GC/MS X	02/24/10	02/24/10	100224S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	103	100	72-120	4	0-20	
Carbon Tetrachloride	90	86	63-135	4	0-20	
Chlorobenzene	104	102	80-120	2	0-20	
1,2-Dibromoethane	111	108	80-120	3	0-20	
1,2-Dichlorobenzene	101	100	80-120	1	0-20	
1,1-Dichloroethene	106	100	60-132	5	0-24	
Ethylbenzene	116	114	78-120	2	0-20	
Toluene	104	103	74-122	1	0-20	
Trichloroethene	102	100	69-120	2	0-20	
Vinyl Chloride	103	103	58-130	0	0-20	
Methyl-t-Butyl Ether (MTBE)	109	103	72-126	5	0-21	
Tert-Butyl Alcohol (TBA)	95	103	72-126	8	0-20	
Diisopropyl Ether (DIPE)	113	109	71-137	3	0-23	
Ethyl-t-Butyl Ether (ETBE)	111	107	74-128	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	113	111	76-124	2	0-20	
Ethanol	90	89	35-167	1	0-48	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: N/A
Work Order No: 10-02-1668
Preparation: EPA 3510C
Method: EPA 8015B

Project: 4895 Hacienda Drive, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-211-1,557	Aqueous	GC 45	02/23/10	02/24/10	100223B05

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Diesel Range Organics	97	94	75-117	4	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



Delta Environmental Consultants, Inc.
312 Piercy Rd.
San Jose, CA 95138-1401

Date Received: N/A
Work Order No: 10-02-1668
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 4895 Hacienda Drive, Dublin, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-767-3,485	Aqueous	GC/MS X	02/24/10	02/24/10	100224L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	100	98	80-122	73-129	2	0-20	
Carbon Tetrachloride	88	83	68-140	56-152	6	0-20	
Chlorobenzene	97	101	80-120	73-127	4	0-20	
1,2-Dibromoethane	103	101	80-121	73-128	2	0-20	
1,2-Dichlorobenzene	98	101	80-120	73-127	3	0-20	
1,1-Dichloroethene	103	97	72-132	62-142	5	0-25	
Ethylbenzene	110	112	80-126	72-134	2	0-20	
Toluene	100	100	80-121	73-128	1	0-20	
Trichloroethene	97	97	80-123	73-130	1	0-20	
Vinyl Chloride	104	94	67-133	56-144	10	0-20	
Methyl-t-Butyl Ether (MTBE)	106	99	75-123	67-131	7	0-20	
Tert-Butyl Alcohol (TBA)	87	99	75-123	67-131	13	0-20	
Diisopropyl Ether (DIPE)	112	108	71-131	61-141	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	113	106	76-124	68-132	6	0-20	
Tert-Amyl-Methyl Ether (TAME)	108	109	80-123	73-130	0	0-20	
Ethanol	89	108	61-139	48-152	19	0-27	
TPPH	86	87	65-135	53-147	1	0-30	

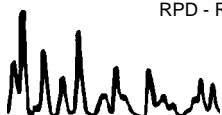
Total number of LCS compounds : 17

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 10-02-1668

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



LAB (LOCATION)



Shell Oil Products Chain Of Custody Record

- CALSCIENCE ()
- SPL ()
- XENCO ()
- TEST AMERICA ()
- OTHER ()

Please Check Appropriate Box: *ME*

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input checked="" type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

Print Bill To Contact Name: **Regina Bussard**

INCIDENT # (ENV SERVICES) **9 7 7 9 5 8 9 3** CHECK IF NO INCIDENT # APPLIES

DATE: **2/18/10**

PO # _____ SAP # _____

1 6 5 1 1 2

PAGE: **1** of **1**

SAMPLING COMPANY: **Delta Consultants** LOG CODE: _____

ADDRESS: **312 Piery Road; San Jose, CA 95138** SITE ADDRESS: Street and City **4895 Hacienda Drive ; Dublin** State **CA** GLOBAL ID NO.: _____

PROJECT CONTACT (Hardcopy or PDF Report to): **Regina Bussard** EDF DELIVERABLE TO (Name, Company, Office Location): **Angela Pico** PHONE NO.: **408-826-1862** E-MAIL: **apico@deltaenv.com** CONSULTANT PROJECT NO.: **SCA4895H1D**

TELEPHONE: **408-826-1876** FAX: **408-324-6801** E-MAIL: **SMcClurkin-Nelson@deltaenv.com** SAMPLER NAME(S) (Print): **Cora Olson** LAB USE ONLY: **02-1668**

TURNAROUND TIME (CALENDAR DAYS): STANDARD (14 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

	All sites	+ diesel tank	+ waste oil tank	Waste Characterization	TEMPERATURE ON RECEIPT °C
<input type="checkbox"/> LA - RWQCB REPORT FORMAT <input type="checkbox"/> UST AGENCY:					

SPECIAL INSTRUCTIONS OR NOTES :

Send results to: colson@deltaenv.com

SHELL CONTRACT RATE APPLIES
 STATE REIMBURSEMENT RATE APPLIES
 EDD NOT NEEDED
 RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification				PRESERVATIVE					NO. OF CONT.	REQUESTED ANALYSIS												Container PID Readings or Laboratory Notes									
					HCL	HNO3	H2SO4	NONE	OTHER		TPH-G Purgeable (8260B)	BTEX (8260B)	5 Shell Oxygenates (8260B)	EDB (8260B)	EDC (8260B)	Ethanol (8260B)	TPH-D Extractable (8015M)	full suite VOCs (8260B)	1,2-DCA and EDB (8260B)	CAM 5 Metals (6010)	PNA and cresote (8270)	PCBs (8082)		TPH-D Extractable (8015M)	Oil and grease (8015M)	CAM 17 Metals (6010)						
1	MW5042	2/17	2:05	water	X						8	X	X	X	X					X											5- Shell Oxygenates =	
																																MTBE, TBA, DIPE
																																ETBE, TAME

Relinquished by: (Signature) <i>[Signature]</i> 2/18/10	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) GSO	Received by: (Signature) Wcbat CE	Date: 2/19/10	Time: 1000
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

1868

1 FROM	DATE	2/16/10	SHIPPER'S GSO ACCOUNT NO.	5255		
	COMPANY	Delta Consultants				
	ADDRESS	312 Pierce Rd				
	ADDRESS	STE/ROOM				
M	CITY	San Jose	CA	ZIP CODE	95138	
	SENDER'S NAME	Matt Corley		PHONE NUMBER	408 826 1876	
	2	COMPANY	CAL SCIENCE			
T O	NAME				PHONE NUMBER	714 595 5494
	ADDRESS	740 LINCOLN WAY				
	ADDRESS	STE/ROOM				
	CITY	GARDEN GROVE	ZIP CODE	92841		
3	YOUR INTERNAL BILLING REFERENCE WILL APPEAR ON YOUR INVOICE					
SPECIAL INSTRUCTIONS						



SHIPPING AIR BILL

4 PACKAGE INFORMATION

LETTER (MAX 8 OZ)

PACKAGE (WT) _____

DECLARED VALUE \$ _____

COD AMOUNT \$ _____ (CASH NOT ACCEPTED)

GSO COPY


5 DELIVERY SERVICE PRIORITY OVERNIGHT BY 10:30 AM EARLY PRIORITY BY 8:00 AM SATURDAY DELIVERY

*DELIVERY TIMES MAY BE LATER IN SOME AREAS • CONSULT YOUR SERVICE GUIDE OR CALL GOLDEN STATE OVERNIGHT.

6 RELEASE SIGNATURE SIGN TO AUTHORIZE DELIVERY WITHOUT OBTAINING SIGNATURE

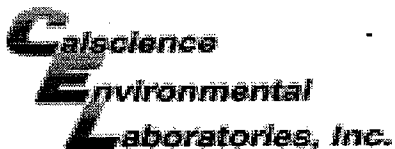
7 CREDIT CARD M/C VISA AM EX CREDIT CARD NUMBER

8 PICK UP INFORMATION TIME DRIVER #

105866731  1058667

9 GSO TRACKING NUMBER 3716010

OR



WORK ORDER #: 10-02-11668

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: DELTA CONSULTANTS

DATE: 02/19/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 1.9 °C + 0.5°C (CF) = 2.4 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: WB

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: WB

Sample _____ No (Not Intact) Not Present Initial: AC

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
* <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input checked="" type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz_{nna} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** _____ **Checked by:** AC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** JS

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z_{nna}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** JS

ATTACHMENT F

FIELD DATA SHEETS

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 4295 HACIENDA DR. DUBLIN, CA Date 3/15/12
 Job Number 100315-WW1 Technician WW Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Well Box Meets Compliance Requirements *See Below	Water Bailed From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
MW-1	X	X			X				
MW-2	X	0			0				
MW-3	X	0			0				
MW-4	X	X			X				
MW-5	X	X			0				
MW-6	X	X	X		0				
		0							

*Well box must meet all three criteria to be compliant: 1) WELL IS SECURABLE BY DESIGN (12" or less) 2) WELL IS MARKED WITH THE WORDS "MONITORING WELL" (12" or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT

Notes: _____

WELL GAUGING DATA

Project # 100315-WW1 Date 3/15/10 Client SHELL

Site 4895 HACIENDA DR. DUBLIN, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	0808	4					11.65	30.19	↓	
MW-2	0812	4				12.915	29.60			
MW-3	0823	4				12.62	25.07			
MW-4	0816	4				12.85	26.07			
MW-5	0819	4				12.80	28.53			
MW-6	0827	4				12.79	25.22			

WELL DEVELOPMENT DATA SHEET

Project #: <u>100315-WW1</u>	Client: <u>SHELL</u>
Developer: <u>WW</u>	Date Developed: <u>3/15/10</u>
Well I.D. <u>MW-1</u>	Well Diameter: (circle one) 2 3 <u>4</u> 6
Total Well Depth: Before <u>30.19</u> After <u>30.19</u>	Depth to Water: Before <u>11.65</u> After <u>11.78</u>
Reason not developed:	If Free Product, thickness:
Additional Notations: <u>swabbed well 10 mins prior</u>	

Volume Conversion Factor (VCF): (12 x (d ² /4) x π) / 231	Well dia.	VCF
where	2"	= 0.16
12 = in / foot	3"	= 0.37
d = diameter (in.)	4"	= 0.65
π = 3.1416	6"	= 1.47
231 = in ³ /gal	10"	= 4.08
	12"	= 6.87

<u>12.1</u>	X	<u>10</u>	=	<u>121</u>
1 Case Volume		Specified Volumes		gallons

Purging Device:

- Bailer Electric Submersible
 Suction Pump Positive Air Displacement

Type of Installed Pump middleburg
 Other equipment used 4" well swab

TIME	TEMP (F)	pH	Cond. (mS or <u>µS</u>)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
<u>0858</u>	<u>start</u>	<u>purge</u>				
<u>0910</u>	<u>62.1</u>	<u>7.20</u>	<u>1742</u>	<u>>1000</u>	<u>12.1</u>	<u>brown/cloudy/HARD BOTTOM</u>
<u>0923</u>	<u>64.4</u>	<u>7.33</u>	<u>1817</u>	<u>>1000</u>	<u>24.2</u>	<u>" " "</u>
<u>SWITCHED TO</u>			<u>3" ES PUMP</u>			<u>(SWAP pump)</u>
<u>0930</u>	<u>61.8</u>	<u>7.40</u>	<u>1682</u>	<u>>1000</u>	<u>36.3</u>	<u>brown/cloudy/HARD BOTTOM</u>
<u>0932</u>	<u>63.9</u>	<u>7.28</u>	<u>1659</u>	<u>>1000</u>	<u>48.4</u>	<u>" "</u>
<u>0936</u>	<u>64.1</u>	<u>7.30</u>	<u>1780</u>	<u>>1000</u>	<u>60.5</u>	<u>" " "</u>
<u>0939</u>	<u>66.3</u>	<u>7.20</u>	<u>1646</u>	<u>>1000</u>	<u>72.6</u>	<u>" " "</u>
<u>0943</u>	<u>63.6</u>	<u>7.42</u>	<u>1646</u>	<u>>1000</u>	<u>84.7</u>	<u>" " "</u>
<u>0946</u>	<u>65.3</u>	<u>7.30</u>	<u>1602</u>	<u>>1000</u>	<u>96.8</u>	<u>" " "</u>
<u>0949</u>	<u>63.2</u>	<u>7.50</u>	<u>1597</u>	<u>>1000</u>	<u>108.9</u>	<u>" " "</u>
<u>0952</u>	<u>65.0</u>	<u>7.33</u>	<u>1579</u>	<u>>1000</u>	<u>121.0</u>	<u>brown/cloudy/HARD BOTTOM</u>

Did Well Dewater? <u>NO</u>	If yes, note above.	Gallons Actually Evacuated:	<u>121</u>
-----------------------------	---------------------	-----------------------------	------------

WELL DEVELOPMENT DATA SHEET

Project #: 100315-WW1	Client: SHELL
Developer: WW	Date Developed: 3/15/10
Well I.D. MW-2	Well Diameter: (circle one) 2 3 4 6
Total Well Depth: Before 29.60 After 29.73	Depth to Water: Before 12.95 After 13.20
Reason not developed:	If Free Product, thickness:
Additional Notations: swabbed well 10 mins prior	

Volume Conversion Factor (VCF):
 $(12 \times (d^2/4) \times \pi) / 231$
 where
 12 = in / foot
 d = diameter (in.)
 $\pi = 3.1416$
 231 = in³/gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 6.87

<u>10.8</u>	X	<u>10</u>	=	<u>108</u>
I Case Volume		Specified Volumes		gallons

- Purging Device:
- Bailer
 - Suction Pump
 - Electric Submersible
 - Positive Air Displacement

Type of Installed Pump middleburg
 Other equipment used 4" well stab

TIME	TEMP (F)	pH	Cond. (mS or μ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1026	START PURGE					
1038	68.3	7.45	2499	>1000	10.8	brown/cloudy/HARD BOTTOM
1043	68.4	7.46	2396	>1000	21.6	" " "
	SWITCHED TO 3" ES PUMP					
1051	68.2	7.54	2394	>1000	32.4	brown/cloudy/HARD BOTTOM
1054	68.4	7.35	2359	>1000	43.2	" " "
1056	68.8	7.27	2322	>1000	54.0	" " "
1058	69.2	7.24	2305	>1000	64.8	" " "
1100	69.4	7.05	2284	>1000	75.6	" " "
1101	69.0	7.18	2287	>1000	86.4	" " "
1103	69.5	7.15	2302	>1000	97.2	" " "
1105	69.5	7.99	2273	>1000	108.0	brown/cloudy/HARD BOTTOM
Did Well Dewater? NO If yes, note above.					Gallons Actually Evacuated:	108

WELL DEVELOPMENT DATA SHEET

Project #: 100315-WW1	Client: SHELL
Developer: WW	Date Developed: 3/15/10
Well I.D. MW-3	Well Diameter: (circle one) 2 3 4 6
Total Well Depth: Before 25-07 After 25-08	Depth to Water: Before 12.62 After 13.78
Reason not developed:	If Free Product, thickness:
Additional Notations: swabbed well 15 mins prior	

Volume Conversion Factor (VCF):
 $(12 \times (d^2/4) \times \pi) / 231$
 where
 12 = in / foot
 d = diameter (in.)
 $\pi = 3.1416$
 231 = in³/gal

Well dia.	=	VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

<u>8.1</u>	X	<u>10</u>	=	<u>81</u>	gallons
I Case Volume		Specified Volumes			

- Purging Device:
- | | |
|---------------------------------------|---|
| <input type="checkbox"/> Bailer | <input checked="" type="checkbox"/> Electric Submersible |
| <input type="checkbox"/> Suction Pump | <input checked="" type="checkbox"/> Positive Air Displacement |

Type of Installed Pump middle burg
 Other equipment used 4" well swab

TIME	TEMP (F)	pH	Cond. (mS or μ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1230	start	purge				
1238	67.4	7.86	3632	>1000	8.1	brown/cloudy/HARD BOTTOM
1247	66.2	7.76	3679	>1000	16.2	" " "
	SWITCHED TO 3"		ES PUMP			
1250	65.6	7.58	3658	>1000	24.3	brown/cloudy; HARD BOTTOM
1252	65.1	7.35	3640	>1000	32.4	" " "
1253	65.4	7.25	3700	>1000	40.5	" " "
1254	65.4	7.05	3710	>1000	48.6	" " "
1255	65.4	7.08	3753	>1000	56.7	" " "
1257	65.6	7.33	3631	>1000	64.8	" " "
1258	65.5	7.12	3643	994	72.9	" " "
1300	65.6	7.02	3637	634	81.0	brown/cloudy/HARD BOTTOM
Did Well Dewater? No If yes, note above.						Gallons Actually Evacuated: 81

WELL DEVELOPMENT DATA SHEET

Project #: 100315-WW1	Client: SHELL
Developer: WW	Date Developed: 3/15/10
Well I.D. MW-4	Well Diameter: (circle one) 2 3 4 6
Total Well Depth: Before 26.07 After 27.47	Depth to Water: Before 12.85 After 14.50
Reason not developed:	If Free Product, thickness:
Additional Notations: swabbed well 10 mins prior	

Volume Conversion Factor (VCF):
 $(12 \times (d^2/4) \times \pi) / 231$
 where
 12 = in / foot
 d = diameter (in.)
 $\pi = 3.1416$
 231 = in³/gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 6.87

<u>8.6</u>	X	<u>10</u>	=	<u>86</u>
1 Case Volume		Specified Volumes		gallons

- Purging Device:
- Bailer
 - Electric Submersible
 - Suction Pump
 - Positive Air Displacement

Type of Installed Pump middleburg
 Other equipment used 4" well swab

TIME	TEMP (F)	pH	Cond. (mS or μ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	DTW: / NOTES: NOTATIONS:
SURGED WELL FOR 10 MINS. PRIOR TO USING PUMP						
1226	69.7	7.60	2410	>1000	8.75	13.43 / TURBID / THICK
1237	68.8	7.52	2431	>1000	17.5	13.30 / HARD BOTTOM
SWITCH TO 3" ES PUMP						
1248	69.5	7.08	2451	>1000	26.25	HIT PUMP / TURBID
1250	69.9	7.04	2455	>1000	35.00	HIT PUMP / TURBID
1252	70.0	7.03	2461	>1000	43.75	HIT PUMP / HARD BOTTOM
1254	69.8	6.99	2452	640	52.50	HIT PUMP / CLEARING
1256	69.9	7.00	2467	840	61.25	HIT PUMP / HARD BOTTOM
1258	69.9	6.97	2475	701	70.00	HIT PUMP / CLEARING
1300	70.0	6.96	2488	963	78.75	HIT PUMP / HARD BOTTOM
1302	70.0	6.97	2489	925	87.50	HIT PUMP / DEVELOPED!
Did Well Dewater? NO If yes, note above.						Gallons Actually Evacuated: 87.50

WELL DEVELOPMENT DATA SHEET

Project #: 100315-WW1	Client: SHELL
Developer: WW	Date Developed: 3/15/10
Well I.D. MW-5	Well Diameter: (circle one) 2 3 4 6
Total Well Depth: Before 28.53 After 28.53	Depth to Water: Before 12.80 After 12.80
Reason not developed:	If Free Product, thickness:
Additional Notations: swabbed well 20 mins prior	

Volume Conversion Factor (VCF):
 $(12 \times (d^2/4) \times \pi) / 231$
 where
 12 = in / foot
 d = diameter (in.)
 $\pi = 3.1416$
 231 = in 3/gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 6.87

10 (AW)

<u>10.2</u>	X	<u>10</u>	=	<u>102</u>	gallons
1 Case Volume		Specified Volumes			

- Purging Device:
- Bailer
 - Electric Submersible
 - Suction Pump
 - Positive Air Displacement

Type of Installed Pump Middelburg
 Other equipment used 4" well swab

TIME	TEMP (F)	pH	Cond. (mS or μ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	PTW: / NOTES: NOTATIONS:
SURKED	WELL	FOR	10 MINS	PRIOR TO	WORK PUMP	
1411	67.6	7.56	2353	>1000	10.50	13.47 / TURBID
1425	67.2	7.21	2207	>1000	21.0	13.60 / HARD BOTTOM
PLACED	3" ES	PUMP	IN	WELL		
1431	67.7	7.25	2288	>1000	31.50	17.20 / HARD BOTTOM
1433	67.9	7.19	2419	>1000	42.0	18.69 / TURBID
1435	68.1	7.13	2395	>1000	52.50	19.80 / HARD BOTTOM
1437	68.3	7.13	2222	>1000	63.00 64.00 21.06	21.06 / TURBID
1439	68.4	7.14	2310	>1000	73.50 75.50 22.31	22.31 / HARD BOTTOM
1441	68.3	7.11	2225	>1000	84.00	23.59 / TURBID
1443	68.3	7.09	2140	>1000	94.50	24.82 / HARD BOTTOM
1445	68.4	7.10	2119	>1000	105.00	HIT PUMP / DEVELOPED!
Did Well Dewater? NO If yes, note above.						Gallons Actually Evacuated: 105.0

WELL DEVELOPMENT DATA SHEET

Project #: 100315-WW1	Client: SHELL
Developer: WW	Date Developed: 3/15/10
Well I.D. MW-6	Well Diameter: (circle one) 2 3 (4) 6
Total Well Depth: Before 25.22 After 25.22	Depth to Water: Before 12.79 After 12.84
Reason not developed:	If Free Product, thickness:
Additional Notations: swabbed well 20 mins prior	

Volume Conversion Factor (VCF): $\{12 \times (d^2/4) \times \pi\} / 231$	Well dia.	VCF
where	2"	= 0.16
12 = in / foot	3"	= 0.37
d = diameter (in.)	4"	= 0.65
$\pi = 3.1416$	6"	= 1.47
231 = in ³ /gal	10"	= 4.08
	12"	= 6.87

<u>8.1</u>	X	<u>10</u>	=	<u>81</u>
1 Case Volume		Specified Volumes		gallons

- Purging Device:
- Bailer
 - Electric Submersible
 - Suction Pump
 - Positive Air Displacement

Type of Installed Pump middle burg
 Other equipment used 4" well swab

TIME	TEMP (F)	pH	Cond. (mS or μ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1347	Start	purge				
1354	65.5	7.68	3250	>1000	8.1	brown/cloudy/HARD BOTTOM
1406	64.4	7.81	3203	>1000	16.2	" " "
SWITCHED TO 3" ES PUMP						
1410	64.7	7.28	3186	>1000	24.3	brown/cloudy/HARD BOTTOM
1411	65.6	7.17	3136	>1000	32.4	" " "
1412	65.6	7.18	3038	>1000	40.5	" " "
1413	65.6	7.22	2939	>1000	48.6	" " "
1415	65.8	7.18	2924	>1000	56.7	" " "
1416	65.6	7.17	2905	>1000	64.8	" " "
1417	65.7	7.18	2905	>1000	72.9	" " "
1418	65.8	7.14	2920	>1000	81.0	brown/cloudy/HARD BOTTOM
Did Well Dewater? NO						If yes, note above.
					Gallons Actually Evacuated:	81

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 4895 Hacienda Dr Dublin CA Date 3-19-10

Job Number 100319-BPI Technician B Pennell Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Well Box Meets Compliance Requirements *See Below	Water Bailed From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
MW-1	X						X		NO TAG
MW-2	X						X		NO TAG
MW-3	X						X		NO TAG
MW-4	X						X		NO TAG
MW-5	X						X		NO TAG
MW-6	X						X		NO TAG

*Well box must meet all three criteria to be compliant: 1) WELL IS SECURABLE BY DESIGN (12" or less) 2) WELL IS MARKED WITH THE WORDS "MONITORING WELL" (12" or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT

Notes: _____

WELL GAUGING DATA

Project # 100319-BPI Date 3-19-10 Client Shell

Site 4895 Hacienda Dr Dublin CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	742	4					11.75	30.29	↓	
MW-2	737	4				13.16	29.94			
MW-3	752	4				12.84	25.08			
MW-4	802	4				12.98	27.32			
MW-5	757	4				12.99	29.69	✓		
MW-6	747	4				12.84	25.26	↓		

SHELL WELL MONITORING DATA SHEET

BTS #: <u>100319-BP1</u>	Site: <u>4895 Hacienda Dr, Dublin CA</u>
Sampler: <u>B. Powell</u>	Date: <u>3-19-10</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth (TD): <u>30.29</u>	Depth to Water (DTW): <u>11.75</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>15.46</u>	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing
 Other: _____

$\frac{12.0 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = 36.0 \text{ Gals.}$	$WC: 18.54$																
1 Case Volume Specified Volumes Calculated Volume	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td><u>0.65</u></td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	<u>0.65</u>	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	<u>0.65</u>														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
8:33	65.5	7.35	1602	489	12.0	
8:35	67.0	7.23	1638	226	24.0	
8:38	67.3	7.20	1657	120	36.0	

Did well dewater? Yes No Gallons actually evacuated: 36.0

Sampling Date: 3-19-10 Sampling Time: 845 Depth to Water: 12.52

Sample I.D.: MW-1 Laboratory: (CalScience) Columbia Other _____

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) (Oxygenates (5)) Other: _____

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: <u>1003 19-BP1</u>	Site: <u>4895 Hacienda Dr, Dublin CA</u>
Sampler: <u>B. Powell</u>	Date: <u>3-19-10</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth (TD): <u>29.94</u>	Depth to Water (DTW): <u>13.16</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>16.52</u>	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing
 Other: _____

WC: 16.78

<u>10.9</u> (Gals.) X <u>3</u>	<u>=</u>	<u>32.7</u> Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	<u>0.65</u>
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
<u>859</u>	<u>65.9</u>	<u>7.47</u>	<u>2606</u>	<u>71000</u>	<u>10.9</u>	
<u>901</u>	<u>67.1</u>	<u>7.27</u>	<u>2384</u>	<u>614</u>	<u>21.8</u>	
<u>903</u>	<u>67.5</u>	<u>7.20</u>	<u>2316</u>	<u>227</u>	<u>32.7</u>	

Did well dewater? Yes No Gallons actually evacuated: 33.0

Sampling Date: 3-19-10 Sampling Time: 910 Depth to Water: 13.64

Sample I.D.: MW-2 Laboratory: CalScience Columbia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: _____

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 100319-BP1	Site: 4895 Hacienda Dr, Dublin CA
Sampler: B. Panell	Date: 3-19-10
Well I.D.: MW-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 25.08	Depth to Water (DTW): 12.84
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.29	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Other: _____

WC: 12.24

8.0 (Gals.) X 3 = 24.0 Gals.	Well Diameter	Multiplier	Well Diameter	Multiplier
1 Case Volume	Specified Volumes	Calculated Volume	1"	0.04
			2"	0.16
			3"	0.37
			4"	<u>0.65</u>
			6"	1.47
			Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
10 35	65.5	7.38	3508	57	8.0	
10 37	65.4	7.21	3636	365	16.0	
10 38	65.6	7.14	3680	>1000	24.0	

Did well dewater? Yes No Gallons actually evacuated: 24.0

Sampling Date: 3-19-10 Sampling Time: 1045 Depth to Water: 14.73

Sample I.D.: MW-3 Laboratory: CalScience Columbia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: _____

EB I.D. (if applicable): @ _____ Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: _____

D.O. (if req'd): Pre-purge: _____ mg/L Post-purge: _____ mg/L

O.R.P. (if req'd): Pre-purge: _____ mV Post-purge: _____ mV

SHELL WELL MONITORING DATA SHEET

BTS #: <u>100319-BP1</u>	Site: <u>4895 Hacienda Dr, Dublin CA</u>
Sampler: <u>B. Panell</u>	Date: <u>3-19-10</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth (TD): <u>27.32</u>	Depth to Water (DTW): <u>12.98</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>15.85</u>	

Purge Method: Bailer	Waterra	Sampling Method: <input checked="" type="checkbox"/> Bailer
Disposable Bailer	Peristaltic	Disposable Bailer
Positive Air Displacement	Extraction Pump	Extraction Port
<input checked="" type="checkbox"/> Electric Submersible	Other _____	Dedicated Tubing
Other: _____		

WC: 19.34

<u>9.3</u> (Gals.) X	<u>3</u>	<u>= 27.9</u> Gals.
I Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	<u>0.65</u>
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
<u>1015</u>	<u>68.7</u>	<u>7.42</u>	<u>2527</u>	<u>>1000</u>	<u>9.3</u>	
<u>1017</u>	<u>69.4</u>	<u>7.26</u>	<u>2515</u>	<u>>1000</u>	<u>18.6</u>	
<u>1019</u>	<u>69.7</u>	<u>7.21</u>	<u>2522</u>	<u>778</u>	<u>27.9</u>	

Did well dewater? Yes No Gallons actually evacuated: 280.472 BP

Sampling Date: 3-19-10 Sampling Time: 1025 Depth to Water: 14.72

Sample I.D.: MW-4 Laboratory: CalScience Columbia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: _____

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL OIL WELL MONITORING DATA SHEET

BTS #: 100319-BP1	Site: 4895 Hacienda Dr, Dublin CA
Sampler: B. Panell	Date: 3-19-10
Well I.D.: MW-5	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 29.69	Depth to Water (DTW): 12.99
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.33	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing
 Other: _____

WC: 16.7

10.9 (Gals.) X 3 = 32.7 Gals.	Well Diameter Multiplier	Well Diameter Multiplier
1 Case Volume Specified Volumes Calculated Volume	1" 0.04	4" <u>0.65</u>
	2" 0.16	6" 1.47
	3" 0.37	Other radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
952	65.8	7.69	2256	868	10.9	
954	66.3	7.40	2193	568	21.8	
956	67.0	7.35	2200	819	32.7	

Did well dewater? Yes No Gallons actually evacuated: 33.0

Sampling Date: 3-19-10 Sampling Time: 1000 Depth to Water: 14.92

Sample I.D.: MW-5 Laboratory: CalScience Columbia Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: _____

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: _____

D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

SHELL WELL MONITORING DATA SHEET

BTS #: <u>100319-BP1</u>	Site: <u>4895 Hacienda Dr, Dublin CA</u>
Sampler: <u>B. Panell</u>	Date: <u>3-19-10</u>
Well I.D.: <u>MW-6</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 _____
Total Well Depth (TD): <u>25.26</u>	Depth to Water (DTW): <u>12.84</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>15.32</u>	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

WC: 12.42

<u>8.0</u> (Gals.) X	<u>3</u>	= <u>24.0</u> Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	<u>0.65</u>
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
<u>923</u>	<u>63.7</u>	<u>7.50</u>	<u>3159</u>	<u>551</u>	<u>8.0</u>	
<u>924</u>	<u>64.6</u>	<u>7.29</u>	<u>3149</u>	<u>519</u>	<u>16.0</u>	
<u>926</u>	<u>64.9</u>	<u>7.20</u>	<u>3002</u>	<u>324</u>	<u>24.0</u>	

Did well dewater? Yes (No) Gallons actually evacuated: 24.0

Sampling Date: 3-19-10 Sampling Time: 930 Depth to Water: 13.95

Sample I.D.: MW-6 Laboratory: (CalScience) Columbia Other _____

Analyzed for: (TPH-G) (BTEX) MTBE (TPH-D) (Oxygenates (5)) Other: _____

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ATTACHMENT G
WELL SURVEY RESULTS

	A	B	C	D	E	F	G	H	I
1	SHELL OIL PRODUCTS US								
2	SHELL SERVICE STATION								
3	4895 Hacienda Drive								
4	Dublin, California								
5									
6	DELTA Project Number SCA4895H1								
7									
8	Project : 10027								
9	User name	MCE	Date & Time	8:58:13 AM 3/19/2010					
10	Coordinate System	US State Plane 1983		Zone	California Zone 3 0403				
11	Project Datum	NAD 1983 (Conus)							
12	Vertical Datum	NAVD 88							
13	Coordinate Units	US survey feet							
14	Distance Units	US survey feet							
15	Elevation Units	US survey feet							
16									
17		MW-1	03/19/2010	349.33	CGPS	88	0.5	Mid Coast Engineers	-0.43
18		MW-2	03/19/2010	350.66	CGPS	88	0.5	Mid Coast Engineers	-0.38
19		MW-3	03/19/2010	350.18	CGPS	88	0.5	Mid Coast Engineers	-0.41
20		MW-4	03/19/2010	350.32	CGPS	88	0.5	Mid Coast Engineers	-0.35
21		MW-5	03/19/2010	350.31	CGPS	88	0.5	Mid Coast Engineers	-0.17
22		MW-6	03/19/2010	350.29	CGPS	88	0.5	Mid Coast Engineers	-0.17

	A	B	C	D	E	F	G	H	I	J	K	L
1	SHELL OIL PRODUCTS US											
2	SHELL SERVICE STATION											
3	4895 Hacienda Drive											
4	Dublin, California											
5												
6	DELTA Project Number SCA4895H1											
7												
8	Project : 10027											
9	User name MCE		Date & Time 8:58:13 AM 3/19/2010									
10	Coordinate System US State Plane 1983		Zone California Zone 3 0403									
11	Project Datum NAD 1983 (Conus)											
12	Vertical Datum NAVD 88											
13	Coordinate Units US survey feet											
14	Distance Units US survey feet											
15	Elevation Units US survey feet											
16												
17		MW-1	MW	03/17/2010	37.7052552	-121.8876339	CGPS	NAD83	1	Mid Coast Engineers	T5800	top of casing
18		MW-2	MW	03/17/2010	37.7051364	-121.8874568	CGPS	NAD83	1	Mid Coast Engineers	T5800	top of casing
19		MW-3	MW	03/17/2010	37.7047970	-121.8876175	CGPS	NAD83	1	Mid Coast Engineers	T5800	top of casing
20		MW-4	MW	03/17/2010	37.7048345	-121.8871984	CGPS	NAD83	1	Mid Coast Engineers	T5800	top of casing
21		MW-5	MW	03/17/2010	37.7047654	-121.8874710	CGPS	NAD83	1	Mid Coast Engineers	T5800	top of casing
22		MW-6	MW	03/17/2010	37.7049446	-121.8876819	CGPS	NAD83	1	Mid Coast Engineers	T5800	top of casing