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Alameda County
Environmental Health

February 12, 2009
Project SCA421211
SAP No. 135782

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

DELTA

RE: Dual-Phase Extraction Pilot Test Report
Shell-branded Service Station
4226 First Street
Pleasanton, California

Dear Mr. Wickham:

Delta Consultants (Delta), on behalf of Shell Oil Products US (Shell), has prepared this report to document the dual-phase extraction (DPE) test performed on January 5 through 12, 2009 at the site referenced above. The tests were conducted in general accordance with the *Dual-Phase Extraction Feasibility Study and Batch Extraction Workplan*, dated March 12, 2008 and the *Technical Comments* from the Alameda County Health Care Services Agency (ACHCSA), in a letter to Shell dated September 9, 2008 (Attachment A). A technical report documenting the DPE tests was originally requested by January 14, 2009. Due to scheduling issues, the ACHCSA granted a request to extend the report deadline to February 13, 2009 through e-mail correspondence dated December 9, 2009.

SITE DESCRIPTION AND USE

The subject site is a Shell-branded service station located at the southern corner of First Street and Vineyard Avenue (Figure 1) in a mixed commercial and residential area of Pleasanton, California. Three 10,000-gallon gasoline underground storage tanks (USTs) and one 550-gallon waste oil UST are located at the site. The site contains two dispenser islands, a service station building with attached service garage (Figure 2).

a member of: Inogen Environmental Alliance

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There are five monitoring wells on site that are sampled quarterly (MW-1, MW-1B, MW-2, MW-3 and MW-4). Down-gradient well MW-4 has the highest hydrocarbon concentrations; down-gradient well MW-1 and cross-gradient well MW-2, located in the vicinity of the former UST complex, also have detectable concentrations of total petroleum hydrocarbons as gasoline (TPH-g) and methyl tert-butyl ether (MTBE). TPH-g is not detectable in the deep well MW-1B or in the cross-gradient well MW-3, but low levels of MTBE have been detected in both.

Attachment B displays well and boring data; Attachment C presents historical groundwater quality data and historical soil quality data.

LOCAL HYDROGEOLOGY

The site is composed of silt, silty fine sand, or clayey fine sand to a depth of approximately 95 feet below ground surface (bgs). Site borings logs are provided as Attachment B with locations shown on Figure 2. Groundwater was first encountered in borings at a depth of approximately 45 feet, stabilizing in wells to a depth of approximately 30 feet bgs. A second water-bearing zone was encountered at a depth of approximately 100 feet bgs. The groundwater gradient in the shallow zone has consistently been to the north-northeast at a magnitude of 0.03 to 0.06 ft/ft. A gradient for the deeper zone can not be determined from a single well.

The sandy soils typically contain 20 to 40 percent fines that reduce the permeability of the deposits. In the north-northeastern portion of the site, sediments become coarse-grained. Borings MW-1, SB-7 and SB-5 encountered coarse-grained sediments between depths of approximately 20 and 55 feet bgs consisting of clayey sandy gravel (GP), gravelly sand with silt (SP), and clayey gravel (GC). A thick deposit of silt (ML) was encountered from approximately 55 feet bgs to the top of the lower aquifer at a depth of approximately 100 feet bgs. A geologic cross section is provided on Figure 3.

PREVIOUS ENVIRONMENTAL ACTIVITIES

A summary of previous environmental activities at the site has been included as Attachment D. Available history dates back to 1985; the site history is complete based on the documentation available to Delta at this time.

SENSITIVE RECEPTORS

A well survey for this site was conducted by Toxichem Management Systems, Inc. (Toxichem) in May 2004. The Toxichem survey gathered information from Zone 7 Water District (Zone 7) and the Department of Water Resources; a copy of the well survey map and summary table are included as Attachment C. The nearest wells identified were a well of "unknown' use (3S/1E-21B) and a municipal well (3S/1E-21B1), both located approximately 900 feet northeast of the site. Toxichem was unable to locate either well in the field and concluded that they were likely abandoned. In November 2005, Delta observed an old water tower building near the location of the two wells. A municipal well (3S/1E-16P1) was identified as being over 1,200 feet north of the site, however Toxichem was not able to locate that well in the field.

Delta performed an addition well survey in September 2005; a well location map was obtained from Zone 7, which is included as Attachment C. Three wells located approximately 1,000 feet northwest of the site (3S/1E-21C1, -21C3, and -21C4) were identified; well 3S/1E-21C1 was classified as a "supply well", well 3S/1E-21C3 as "abandoned or unlocatable", and 3S/1E-21C4 as "other designated well". Delta was only able to field verify well 3S/1E-21C4, which provides irrigation water for a small city park. Delta also located a similar well in Kottinger Park located approximately 800 feet east of the site.

Delta was unable to locate a map of underground utilities for the site area. Depth to groundwater beneath the site is typically over 30 feet bgs, therefore underground utilities are not considered a vertical conduit to shallow groundwater. The Arroyo Del Valle Creek is located approximately 1,133 feet north-west of the site. All identified wells which were confirmed in the field are located 1,000 feet or more from the site and are not considered to be at risk for impacts from contamination at the site.

PETROLEUM DISTRIBUTION

Distribution of Petroleum Hydrocarbons in Groundwater

Groundwater impacts are centered in the area of the former UST complex at well MW-4 located in the northeast side of the site (Figure 2). Wells MW-1 and MW-4 are approximately 50 to 75 feet down-gradient of the former UST complex, MW-2 is located near the northeastern corner of the former UST tank complex, and MW-3 is approximately 50 feet up-gradient of the former tank pit. During the most recent groundwater sampling and monitoring event conducted on December 3, 2008, (Attachment C, Table 1) depth to shallow groundwater ranged from 32.12 feet bgs at well MW-3 to 35.19 feet bgs at well MW-1. Depth to groundwater in deep well MW-1B was 80.84 feet bgs. The reported groundwater flow direction and gradient was northeasterly at an approximate gradient of 0.06 feet/feet.

The highest concentration of TPH-g during the 4th quarter 2008 sampling event was detected in MW-4 at 20,000 µg/L. Down-gradient well MW-1 and cross-gradient well MW-2 also have high detectable concentrations of TPH-g at 3,400 and 3,000 µg/L, respectively. TPH-g was not detected above the reporting limit of 50 µg/L in deep well MW-1B or the cross-gradient well MW-3. The available data indicate most of the TPH-g impacted groundwater is located to the northeast and northwest of the former UST complex.

During the 4th quarter 2008 sampling event, MTBE was detected above the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Environmental Screening Levels (ESLs) for non-drinking water in three of the five wells, with reported concentrations of 3,200 µg/L, 2,900 µg/L, and 21,000 µg/L, respectively, at wells MW-1, MW-2, and MW-4. MTBE was also detected at low levels in MW-1B and MW-3 at 3.4 and 2.1 µg/L respectively.

Distribution of Petroleum Hydrocarbons in Soil

Soil analytical data from Attachment C indicate the highest concentrations of TPH-g were detected in boring S-B, located within the former UST complex at 14 to 15.5 feet bgs at a concentration of 1,300 mg/kg. The next highest concentration was detected in SB-5 (located north of MW-4), at a depth of 35 feet bgs at a concentration of 820 mg/kg. Concentrations of concern were also detected in MW-4, just north of the former UST complex, at 36.5 feet bgs at a concentration of 380 mg/kg. The

available data indicate most of the TPH-g impacted soils are located northeasterly to northwesterly of the former UST complex.

As shown on Figure 3, the highest concentrations of MTBE were detected in soil samples from MW-4 at depths of approximately 45 and 50 feet with concentrations of 0.59 and 0.56 mg/kg, respectively.

REMEDIATION STATUS

Field Activities prior to Dual-Phase Extraction Testing

Delta prepared a site-specific Health and Safety Plan, which was reviewed by all field personnel. Delta and Frontier Environmental (Frontier) field personnel obtained a various locations permit with Bay Area Air Quality Management District (BAAQMD) for the operations of a 450 cubic foot per minute (cfm) system. Frontier and Delta notified BAAQMD of the upcoming events prior to mobilizing to the field.

Step Drawdown Testing

Prior to the DPE test, Delta performed step drawdown tests in wells MW-1 and MW-4 in order to estimate the maximum sustainable pumping rates for the upper groundwater zones. Water levels in the wells were measured during pumping using an electronic water level meter. The sustainable pumping rate for well MW-1 was determined to be 0.55 gpm, with a hydraulic conductivity of 3.59×10^{-5} centimeters per second (cm/sec) calculated using the average pumping rate of 0.48 gpm during the test. This value is typical of silt (Freeze and Cherry, 1979) and does seem consistent with the boring log descriptions. The step drawdown test at sell MW-4 produced a sustainable pumping rate of 0.4 gpm; a hydraulic conductivity of 3.17×10^{-5} cm/sec was calculated using the average pumping rate of 0.48 gpm during the test. This value is typical of silt (Freeze and Cherry, 1979) and is consistent with the description of soils on boring log. The above results led Delta to classify all site soils as low permeability.

Dual-Phase Extraction Test Summary

Based on continued high TPH-g concentrations in the aqueous phase in Wells MW-1, MW-2 and MW-4, DPE tests were completed on all three wells using a mobile DPE system. Initially, a 5-day DPE feasibility study was performed on well MW-4, which is situated in the former UST complex and has the highest contaminant concentrations. Upon completion of the 5-day test, two additional tests were performed on wells MW-1 and MW-2 for a period of up to 8 hours each. Both tests were discontinued after 4 hours due to low flow rates. Feasibility is calculated by estimating influent hydrocarbon concentrations, hydrocarbon mass recovery rates, the soil vapor radius of influence (ROI), and groundwater production rates. Soil vapor was extracted from the wells through application of high vacuum to each tested well using a 25-horsepower (hp) liquid ring pump. The following sections provide details of the DPE test results; field measurements for each test are included in Tables 1 through 6.

Inflow Rates

The influent flow rates, expressed in units of cfm, applied vacuums and induced vacuums, expressed in units of inches of water (inH_2O), and inlet hydrocarbon concentrations, expressed in units of parts per million (ppm), were measured during DPE test events. Tables 1, 3 and 5 provide summaries of the recorded measurements for each test at wells MW-4, MW-1 and MW-2, respectively. Vapor concentrations were measured using a photo-ionization detector (PID) capable of analyzing hydrocarbon vapor at concentrations of up to 10,000 parts per million by volume (ppmv). Induced vacuum and applied vacuum were measured with vacuum gauges placed on the DPE system during operation.

Radius of Influence

The ROI and area of effectiveness of extraction rate from the DPE system field measurements were determined from measurements recorded at observation wells surrounding the test well. Groundwater parameters included dissolved oxygen (DO), electrical conductivity, temperature, pH, and turbidity, as well as depth to groundwater at the wells. Measurements for tests conducted at wells MW-4, MW-1 and MW-2 are provided in Tables 2, 4, and 6, respectively. MW-3 had insufficient water for sampling during the two 8-hour tests. Water levels at MW-3 were measured throughout the 8 hour tests, and no significant changes were observed.

Influent Vapor Concentrations

Inlet hydrocarbon vapor readings were recorded regularly throughout the pilot tests using a PID. The monitoring schedule is detailed in the *Dual-Phase Extraction Work Plan* included as Attachment A. Readings taken at well MW-4 during the 5-day test reflect a steady increase in concentrations through the end of the second day, at which time concentrations reached a peak of 9,010 ppm taken with a PID, then gradually declined to more steady-state concentrations, with a final PID reading of 2,610 ppm.

In addition, vapor samples were collected for laboratory analysis from the DPE system inlet vapor stream at the beginning, middle, and end of the 5-day and each 8-hour test using Tedlar bags. Vapor samples were logged onto chain-of-custody forms and submitted to a California state certified laboratory for analysis. Vapor samples were analyzed for TPH-g, BTEX compounds, TBA, and MTBE by EPA Method TO-14. Influent TPH-g concentrations during the 5-day test at MW-4 were calculated at 420 ppm, 4,900 ppm, and 3,600 ppm for pre-test, mid-test, and post test samples; MTBE concentrations were calculated at 17 ppm, 230 ppm, and 24 ppm. Influent TPH-g concentrations during the 8-hour test at well MW-1 were calculated at 73 ppm, 31 ppm, and 22 ppm for pre-test, mid-test, and post test samples; MTBE concentrations were calculated at 0.5 ppm, 0.19 ppm, and 0.2 ppm. Influent TPH-g concentrations during the 8-hour test at well MW-2 were calculated at 21 ppm, 91 ppm and 120 ppm for pre-test, mid-test, and post test samples; MTBE concentrations were calculated at 0.92 ppm, 7.4 ppm, and 8.1 ppm. Analytical results for vapor samples are presented in Table 7. The certified analytical results with chain-of-custody documentation are included as Attachment E.

Groundwater Samples

Groundwater samples were collected at the beginning, middle and end of each test from the test well and the surrounding observation wells. Groundwater samples were logged onto chain-of-custody forms and submitted to a California state certified laboratory for analysis. Groundwater samples were analyzed for TPH-g, BTEX compounds, MTBE, tert-butyl alcohol (TBA), diisopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), ethylene dibromide (EDB), 1,2-dichloroethane (1,2-DCA), and ethanol by EPA Method 8260B.

Analytical concentrations for groundwater samples were in general typical of concentrations reported during groundwater monitoring events. Analytical results for groundwater samples are presented in Table 7. The certified analytical reports with chain-of-custody documentation are included as Attachment E.

Dual-Phase Extraction Operation Results

Based on the work plan dated March 12, 2008, DPE system and groundwater measurements at each test well and observation wells were recorded at 15-minute intervals for the first two hours of each test. During the 5-day test, measurements were taken at 1-hour intervals during the third hour, 2-hour intervals from the third to seventh hours, and every four hours for the remainder of the test. During the 8-hour tests, measurements were taken on the hour at the second through fourth hours, at which time both test were discontinued due to low flow conditions. Groundwater parameters included pH, electrical conductivity, turbidity, dissolved oxygen, temperature, oxygen reduction potential, and depth to groundwater during extraction.

The induced vacuum at each wellhead, observed flow rate at each wellhead, and petroleum hydrocarbon soil vapor influent concentrations as measured by a PID ranged as follows.

Well ID (test)	Induced Vacuum (in. H_2O)	Flow Rate (cfm)	Influent Soil Vapor (ppm)
MW-4 (5- day test)	>150	18-75	150 – 9,010
MW-1 (8-hr test)	>150	60-70	25-53
MW-2 (8- hr test)	75	80-125	25-121

In general, due to the impermeable clay subsurface only incremental water level variations were noted in the observation wells during the DPE events on the tested wells. In contaminated wells, dissolved oxygen levels increased during pilot tests correlated to a general decrease in hydrocarbon

concentrations. Low dissolved oxygen levels typically coincide with higher levels of groundwater contamination, because oxygen is in high demand for contaminant degradation.

Hydrocarbon Mass Recovery

Hydrocarbon mass removal through vapor extraction was calculated using an average concentration over the total period of operation and the average flow rate for each test. Total mass removal through vapor extraction and treatment of hydrocarbons in the vadose zone was estimated to be approximately 286.3 pounds. A total of approximately 2,748 gallons of groundwater were extracted with an estimated hydrocarbon mass removal of 0.23 pounds. Mass removal data is presented in Table 8.

Soil Vapor Radius of Influence

Delta was unable to calculate the radius of influence during the DPE pilot tests based on the location of the observation wells in relation to the test well, which ranged in distance from 40 to 80 feet, and given the local hydrogeology. Observable influence was not noted during the tests, which would lead us to believe that the ROI at the site is less than 40 feet. Estimating ROI based on effective air exchange assuming three soil pore volumes of vapor are being extracted per day can be calculated as:

$$Q = \frac{3/day \cdot \pi R_E^2 b n_a}{1440\,\text{min}/day}$$

Where: Q = Flow Rate (cfm)
R_E = Radius of Effective Air Exchange
b = Thickness of Unsaturated Zone
n_a = Effective Air-Filled Soil Porosity

Given site parameters during the test and using an average estimated influent flow rate of 55 cfm for all three wells we can estimate ROI using this equation. The thickness of the unsaturated zone during the test was approximately 30 feet; the effective air-filled soil porosity is 0.30 for sandy clay, which results in a conservative estimate for the zone of effective air exchange. Using these values, the radius of effective air exchange could be estimated at approximately 26 feet:

Dual-Phase Extraction Test Conclusion

During the DPE pilot tests, approximately 0.23 pounds of hydrocarbons were removed from extracted groundwater and approximately 286.3 pounds of hydrocarbons were removed through soil vapor extraction.

Minimal groundwater movement was observed in the observation wells during the DPE tests. Consequently, the vapor ROI could not be calculated based on observable measurements, other than noting the ROI appears to be less than 40 feet. Calculating ROI based on the average observed flow rate and known site subsurface conditions produced a theoretical ROI of approximately 26 feet. Dissolved oxygen levels increased throughout the pilot tests, which was correlated to generally decreasing hydrocarbon concentrations in the water.

The highest contaminant impacts are TPH-g, MTBE and TBA in the aqueous phase and TPH-g in the vapor phase. The maximum groundwater concentrations during the DPE pilot test were encountered in MW-4 with TPH-g reported at 13,000 µg/L, MTBE at 16,000 µg/L and TBA at 3,800 g/L. Wells MW-1 and MW-2 also reported concentrations of contaminants of concern which were generally comparable to concentrations reported during quarterly groundwater monitoring. TPH-g was present in the vadose zone at increasing vapor concentrations during the 5-day extraction test in well MW-4. TPH-g vapor concentrations increased from 420 ppm at the beginning of the 5-day test, to 4,900 ppm at mid-week, and finally at 3600 ppm at the end of the 5-day test. The increase in vapor concentrations may have resulted in part due to vapor plume migration during the extraction test.

Based on the substantial hydrocarbon mass removed from the vadose zone through vapor extraction and the low average flow rate for groundwater extraction of approximately 0.4 gpm, vapor extraction is the more feasible remediation strategy at this site. The low mass removal of hydrocarbons from groundwater during the DPE test is indicative of the impermeable aquifer region throughout the site, which limits groundwater movement while the large vadose zone supports significant hydrocarbon extraction through vapor extraction.

RECOMMENDATIONS

Based on the results of the DPE pilot test and the previous groundwater extraction pilot test, it has been determined that groundwater extraction as a remediation strategy will have limited success. However, the results also indicate that soil vapor extraction (SVE) may be a viable component of an overall remediation strategy. Furthermore, the soil permeability documented by the relative success of SVE suggests that air or oxygen sparging may also be suitable to address the oxygenate issues in the groundwater at the site. Delta proposes preparing a remedial action plan which will incorporate this data; soil vapor extraction and sparge-based bioremediation will be included in this evaluation.

REMARKS

This report represents Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this document.

Should you have any questions or need any further assistance, please contact Suzanne McClurkin-Nelson (Delta) at (408) 826-1875 or Mr. William Lantz (Delta) at (626) 873-2702. In addition, Mr. Dennis Brown (Shell) can be reached at (707) 865-0251.

Sincerely,
Delta Consultants

Cora Olson
Staff Engineer

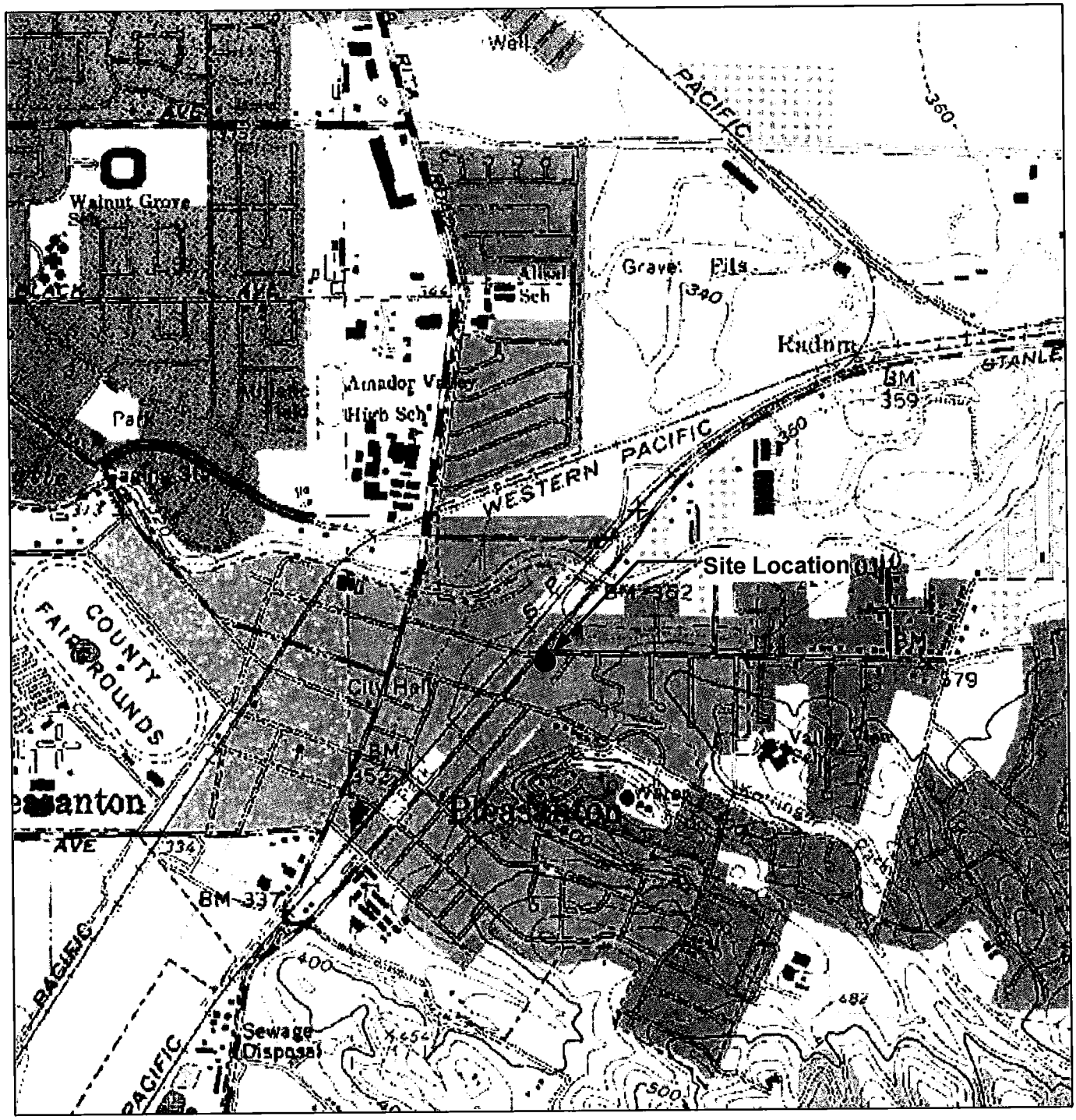
Suzanne McClurkin-Nelson
Senior Project Manager

William Lantz, P.E. C63515
Senior Engineering Specialist

REGISTERED PROFESSIONAL ENGINEER * WILLIAM L. LANTZ * C 63515 * EXP. 9/30/10 * CIVIL * STATE OF CALIFORNIA

cc: Denis Brown, Shell Oil Products US, Carson

Attachments: Figure 1 – Site Location Map
Figure 2 - Site Map
Figure 3 – Geologic Cross Section A - A'
Table 1– DPE Field Measurements for 5-day test on MW-4
Table 2- Groundwater Parameter Data in Observation Wells for 5-day test on MW-4
Table 3– DPE Field Measurements for 8-hour test on MW-1
Table 4- Groundwater Parameter Data in Observation Wells for 8- hour test on MW-1
Table 5– DPE Field Measurements for 8-hour test on MW-2
Table 6- Groundwater Parameter Data in Observation Wells for 8- hour test on MW-2
Table 7- Groundwater and Vapor Analytical Results from All Tests
Table 8 – Hydrocarbon Mass Removal from Vapor and Groundwater
Attachment A – DPE Work Plan and Letter of Correspondence
Attachment B – Boring Logs
Attachment C – Sensitive Receptor, Soil, and Groundwater Data
Attachment D – History of Previous Environmental Activities
Attachment E - Laboratory Analytical Reports



GENERAL NOTES:
Base Map from: DeLorme Yarmouth, ME 04096
Source Data: USGS

North

QUADRANGLE LOCATION

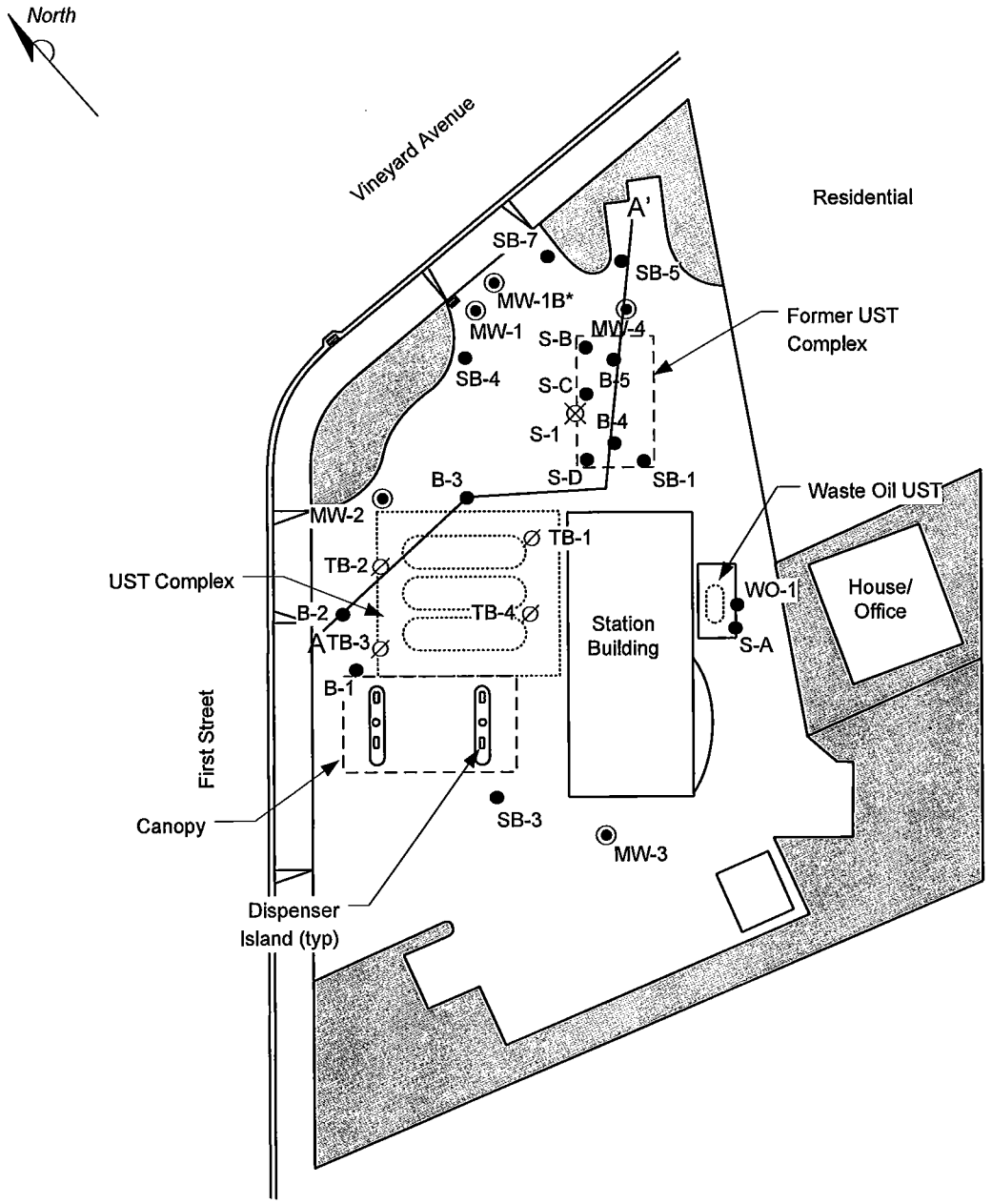
0 1,300 2,600
Scale, Feet

FIGURE 1
SITE LOCATION MAP

SHELL-BRANDED SERVICE STATION
4212 First Street
Pleasanton, California

PROJECT NO. SCA421211	DRAWN BY V. F. 5/5/05
FILE NO.	PREPARED BY VF
REVISION NO.	REVIEWED BY

DELTA



LEGEND

MW-2	◉	**GROUNDWATER MONITORING WELL LOCATION**
S-1	⊗	**DESTROYED WELL**
TB-1	Ø	**ABANDONED TANK BACKFILL WELL LOCATION**
B-3	●	**SOIL BORING LOCATION**
A——A'		**CROSS SECTION DIRECTION**

0 40 FT

APPROX. SCALE

FIGURE 2

SITE MAP

SHELL-BRANDED SERVICE STATION
4226 First Street
Pleasanton, California

PROJECT NO. SJ422-6F1-X	DRAWN BY AD 6/15/07
FILE NO. SJ422-6F1-X	PREPARED BY AD
REVISION NO. 1	REVIEWED BY

DELTA

BaseMap from: Cambria Environmental Technology, Inc. and Toxichem Management Systems, Inc.

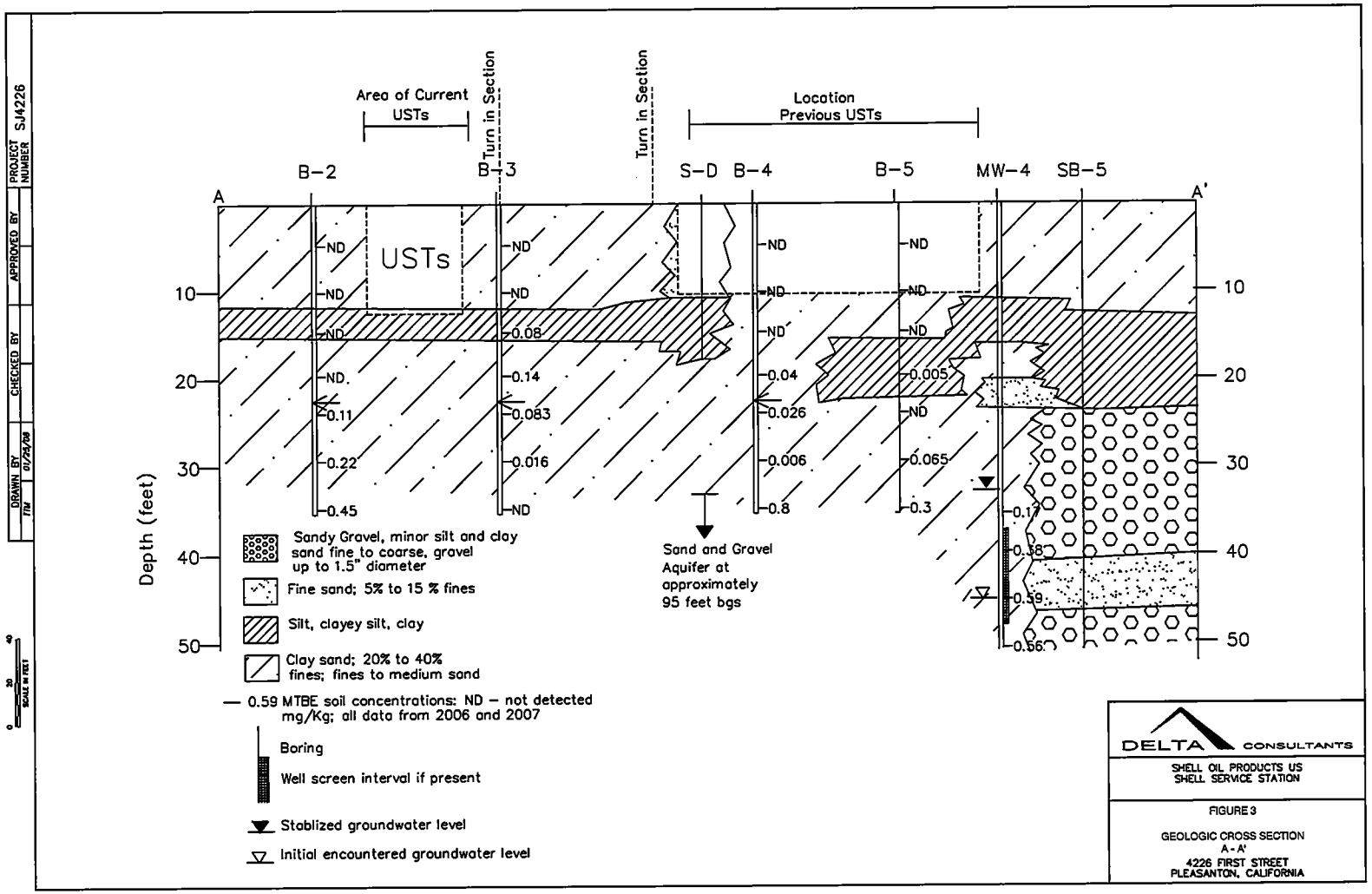

PROJECT NUMBER SJ4226
APPROVED BY
CHECKED BY
DRAWN BY TM 07/25/08
SCALE IN FEET
Area of Current USTs
Turn in Section
Turn in Section
Location Previous USTs
B-2
B-3
S-D
B-4
B-5
MW-4
SB-5
A
A'
USTs
Depth (feet)
10
20
30
40
50
ND
0.08
0.14
0.083
0.016
0.11
0.22
0.45
0.04
0.026
0.006
0.8
0.005
0.065
0.3
0.17
0.58
0.59
0.56
Sandy Gravel, minor silt and clay sand fine to coarse, gravel up to 1.5" diameter
Fine sand; 5% to 15 % fines
Silt, clayey silt, clay
Clay sand; 20% to 40% fines; fines to medium sand
Sand and Gravel Aquifer at approximately 95 feet bgs
0.59 MTBE soil concentrations: ND = not detected mg/Kg; all data from 2006 and 2007
Boring
Well screen interval if present
Stablized groundwater level
Initial encountered groundwater level
DELTA CONSULTANTS
SHELL OIL PRODUCTS US
SHELL SERVICE STATION
FIGURE 3
GEOLOGIC CROSS SECTION
A - A'
4226 FIRST STREET
PLEASANTON, CALIFORNIA

Table 1

DPE Field Measurements for 5-day test on MW-4

Shell Branded Station, 4212 First Street, Pleasanton, CA

Dual Phase Extraction operation (From 1/5/09 13:45 To 1/10/09 8:00)

Date	Time	Inlet Flow Rate (cfm)	Inlet Applied Vacuum (system) (inH2O)	Induced Vacuum at wellhead (inH2O)	Inlet Hydrocarbon Vapor conc. (ppm)	Totalizer Reading (Gallons)	Total Volume of Water Extracted (gallons)
1/5/2009	13:45	18	26.50	>150	150	1,269,923	0
1/5/2009	14:00	18	26.50	>150	245	1,269,923	0
1/5/2009	14:15	18	26.50	>150	405	1,269,923	0
1/5/2009	14:30	55	26.50	>150	670	1,269,961	38
1/5/2009	14:45	55	26.00	>150	972	1,269,961	38
1/5/2009	15:00	55	26.00	>150	1,780	1,269,995	72
1/5/2009	15:15	50	25.50	>150	2,030	1,269,995	72
1/5/2009	15:30	50	26.50	>150	2,750	1,269,995	72
1/5/2009	16:00	55	26.00	>150	3,160	1,270,026	103
1/5/2009	18:00	50	26.00	>150	3,890	1,270,127	204
1/5/2009	19:00	50	26.00	>150	4,030	1,270,160	237
1/5/2009	21:00	50	26	>150	4,050	1,270,268	345
1/6/2009	1:00	55	26.5	>150	4,120	1,270,303	380
1/6/2009	5:00	55	26.5	>150	4,030	1,270,434	511
1/6/2009	9:00	58	26.5	>150	4,100	1,270,572	649
1/6/2009	12:00	58	26.75	>150	9,010	1,270,572	649
1/6/2009	16:00	55	26	>150	4,130	1,270,761	838
1/6/2009	20:00	58	26	>150	4,280	1,270,856	933
1/7/2009	0:00	58	26	>150	4,120	1,270,973	1,050
1/7/2009	4:00	58	26	>150	3,430	1,271,094	1,171
1/7/2009	8:00	58	25.5	>150	3,790	1,271,170	1,247
1/7/2009	12:00	55	25.5	>150	3,680	1,271,263	1,340
1/7/2009	16:00	50	26.5	>150	3,670	1,271,356	1,433
1/7/2009	20:00	55	26.5	>150	3,210	1,271,442	1,519
1/8/2009	0:00	55	26	>150	3,060	1,271,526	1,603
1/8/2009	4:00	60	25.5	>150	2,990	1,271,612	1,689
1/8/2009	8:00	60	26.5	>150	2,960	1,271,700	1,777
1/8/2009	12:00	60	26	>150	2,960	1,271,762	1,839
1/8/2009	16:00	60	26	>150	2,940	1,271,848	1,925
1/8/2009	20:00	60	25.5	>150	2,930	1,271,936	2,013
1/9/2009	0:00	60	25.5	>150	2,890	1,272,022	2,099
1/9/2009	4:00	60	26	>150	2,890	1,272,116	2,193
1/9/2009	8:00	60	25.75	>150	2,920	1,272,200	2,277
1/9/2009	12:00	60	26	>150	2,810	1,272,263	2,340
1/9/2009	16:00	60	26	>150	2,830	1,272,353	2,430
1/9/2009	20:00	65	26	>150	2,810	1,272,475	2,552
1/10/2009	0:00	68	26	>150	2,750	1,272,543	2,620
1/10/2009	4:00	75	26	>150	2,650	1,272,600	2,677
1/10/2009	8:00	70	26	>150	2,610	1,272,664	2,741

Abbreviations:
cfm = Cubic feet per minute
inH2O = Inches of water
ppm = Parts per million

Table 2
Groundwater Parameter Data in Observation Wells for 5-day test on MW-4
Shell Branded Station, 4212 First Street, Pleasanton, CA

Dual Phase Extraction operation (From 1/5/09 13:45 to 1/10/2008 8:00)

Well	Date	Time	pH	EC (uS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP	DTW	comments
MW-1	1/5/09	11:55	6.2	0.16	NA	NA	16.3	NA	41.4	Before Test Sample Taken
Mw-1	1/5/09	14:15	6.3	0.16	19	8.6	16.0	87	38.4	
MW-1	1/5/09	14:35	6.5	0	45	8.2	17.8	41	38.74	
MW-1	1/5/09	14:48	6.5	0.16	94	8.2	17.8	48	38.88	
MW-1	1/5/09	15:02	6.7	0.16	83	8.6	17.7	49	38.69	
MW-1	1/5/09	15:17	6.5	0.15	57	8.5	17.9	48	38.69	
MW-1	1/5/09	15:32	6.7	0.16	45	8.7	16.9	44	38.61	
MW-1	1/5/09	15:46	6.7	0.16	36	8.3	17.9	45	38.65	
MW-1	1/5/09	16:03	6.6	0.16	32	8.2	17.8	43	38.75	
MW-1	1/5/09	18:12	6.8	0.16	10	8.3	17.5	142	38.76	
MW-1	1/5/09	19:00	7.0	0.16	14	8.3	17.6	138	38.82	
MW-1	1/5/09	21:00	6.9	0.16	10	8.2	17.4	145	38.84	
MW-1	1/6/09	1:00	7.1	0.17	13	8.3	17.0	139	38.84	
MW-1	1/6/09	5:00	6.8	0	180	11.7	17.5	196	38.98	
MW-1	1/6/09	12:00	7.3	0.16	6	9.5	17.2	205	36.47	
MW-1	1/6/09	16:00	7.8	0.17	3	11.5	15.2	181	36.45	
MW-1	1/6/09	20:00	7.9	0.16	8	10.1	15.7	170	36.75	
MW-1	1/7/09	0:00	7.8	0.17	8	9.8	15.2	165	36.88	
MW-1	1/7/09	4:00	7.8	0.16	8	9.9	15.0	162	37.01	
MW-1	1/7/09	7:30	7.1	0.15	9	9.2	15.7	214	36.83	Mid- Test Sample Taken
MW-1	1/7/09	12:00	7.2	0.17	2	10.2	14.7	165	37.22	
MW-1	1/7/09	16:00	7.2	0.16	5	9.6	16.8	136	37.41	
MW-1	1/7/09	20:00	7.1	0.16	5	9.4	15.4	140	37.41	
MW-1	1/8/09	0:00	7.2	0.17	3	9.8	15.8	176	37.42	
MW-1	1/8/09	4:00	7.0	0.17	1	10.8	16.2	210	37.42	
MW-1	1/8/09	8:00	7.0	0.17	2	10.4	17.3	237	37.43	
MW-1	1/8/09	12:00	6.9	0.17	3	9.8	17.1	232	37.45	
MW-1	1/8/09	16:00	6.9	0.16	2	10.2	17	202	37.47	
MW-1	1/8/09	20:00	7.0	0.16	1	10.1	16.8	198	37.50	
MW-1	1/9/09	0:00	7.2	0.17	3	9.8	16.8	198	37.50	
MW-1	1/9/09	4:00	6.9	0	15	10.2	11.5	210	37.74	
MW-1	1/9/09	8:00	7.6	0	45	13.6	10.5	222	37.90	
MW-1	1/9/09	12:00	7.7	0.17	3	11.3	19.4	180	37.98	
MW-1	1/9/09	16:00	7.6	0.17	2	11.1	19.2	176	38.02	
MW-1	1/9/09	20:00	7.6	0.17	2	11.1	19.1	174	38.08	
MW-1	1/10/09	0:00	7.6	0.17	2	11.1	19	170	38.11	
MW-1	1/10/09	4:00	7.4	0.17	2	11.1	18.9	164	38.15	
MW-1	1/10/09	8:00	8.1	0.17	4	11.5	13.8	233	38.48	
MW-2	1/5/09	13:05	6.4	0.11	NA	NA	15.8	NA	38.13	Before Test Sample Taken
MW-2	1/5/09	14:23	6.5	0	69	8.3	17.4	102	38.80	
MW-2	1/5/09	14:38	6.5	0.1	61	7.9	18.5	64	37.96	
MW-2	1/5/09	14:52	6.5	97	54	8.1	18.6	55	37.95	
MW-2	1/5/09	15:07	6.7	1	60	8.7	17.9	46	38.02	
MW-2	1/5/09	15:21	6.7	0.1	50	8.2	18.3	59	37.99	

Table 2
Groundwater Parameter Data in Observation Wells for 5-day test on MW-4
Shell Branded Station, 4212 First Street, Pleasanton, CA

Dual Phase Extraction operation (From 1/5/09 13:45 to 1/10/2008 8:00)

Well	DATE	Time	PH	EC (us/cm)	Turbidity (NTU)	DO (mg/l)	TEMP (C)	ORP	DTW	Comments
MW-2	1/5/09	15:36	6.9	0.11	48	8.3	17.8	57	38.02	
MW-2	1/5/09	15:51	6.9	0	46	8.2	17.8	48	38.05	
MW-2	1/5/09	16:09	6.9	0.11	51	8.3	17.9	62	38.2	
MW-2	1/5/09	18:10	6.9	0.9	26	9.2	17.3	136	38.15	
MW-2	1/5/09	19:05	6.9	0.11	28	9.6	17.2	138	38.15	
MW-2	1/5/09	21:00	6.9	0.12	24	9.2	17.4	135	38.15	
MW-2	1/6/09	1:00	6.9	0.11	26	9.0	17.2	140	38.18	
MW-2	1/6/09	5:00	6.9	0.11	21	9.3	17.6	155	38.18	
MW-2	1/6/09	12:00	6.9	0.13	24	8.9	18.7	202	36.02	
MW-2	1/6/09	16:00	6.5	0.12	17	11.2	15.6	188	35.72	
MW-2	1/6/09	20:00	6.5	0.11	13	9.4	17.2	172	35.75	
MW-2	1/7/09	0:00	6.5	0.12	15	11.1	16.8	170	35.78	
MW-2	1/7/09	4:00	6.5	0.11	17	11.1	17.1	171	35.81	
MW-2	1/7/09	7:50	6.6	0.1	6	8.6	16.1	214	35.15	Mid- Test Sample Taken
MW-2	1/7/09	12:00	6.7	0.11	4	9.6	16.1	162	35.19	
MW-2	1/7/09	16:00	6.9	0.11	6	9.1	17.7	140	35.22	
MW-2	1/7/09	20:00	6.9	0.1	4	10.3	17.4	152	35.39	
MW-2	1/8/09	0:00	6.7	0.11	8	9.6	17.8	159	35.48	
MW-2	1/8/09	4:00	6.9	5	6	9.8	18.1	199	35.54	
MW-2	1/8/09	8:00	6.6	1	5	10.0	18.1	2632	35.6	
MW-2	1/8/09	12:00	6.9	2	3	9.8	17.9	215	35.62	
MW-2	1/8/09	16:00	6.9	0.11	7	10.2	17.8	220	35.62	
MW-2	1/8/09	20:00	6.9	0.1	5	9.8	17.5	202	35.63	
MW-2	1/9/09	0:00	6.8	0.11	8	9.8	18	198	35.63	
MW-2	1/9/09	4:00	7	0.11	3	9.9	17.9	165	35.65	
MW-2	1/9/09	8:00	7.6	0.9	4	10.8	16.5	233	35.78	
MW-2	1/9/09	12:00	7.3	0.12	4	11.3	19.5	185	35.8	
MW-2	1/9/09	16:00	7.2	0.11	3	11.1	19.1	168	35.87	
MW-2	1/9/09	20:00	7.1	0.11	3	11.1	18.9	170	35.93	
MW-2	1/10/09	0:00	7.2	0.11	2	10.1	18.8	174	35.97	
MW-2	1/10/09	4:00	7.1	0.11	3	10.1	18.8	172	34.01	
MW-2	1/10/09	8:00	6.9	0.11	5	10.8	15.3	234	33.6	
MW-3	1/5/09	13:25	6.5	0	NA	NA	16	NA	33.20	
MW-3	1/5/09	14:28	6.2	0	170	8.3	17.6	78	33.18	
MW-3	1/5/09	14:43	6.4	75	28	8.1	18.2	34	33.25	
MW-3	1/5/09	14:56	6.6	77	38	8.3	18.5	36	33.30	
MW-3	1/5/09	15:11	6.7	78	30	8.4	18.1	39	33.35	
MW-3	1/5/09	15:25	6.4	0	23	8.4	18.1	60	33.45	
MW-3	1/5/09	15:41	6.8	77	20	8.3	17.9	58	33.40	
MW-3	1/5/09	15:57	6.7	78	24	8.5	17.2	41	33.49	
MW-3	1/5/09	16:14	7.0	0	29	8.9	16.5	35	33.52	
MW-3	1/5/09	18:20	7.2	79	18	9.2	17.9	81	33.65	
MW-3	1/5/09	19:12	7.4	79	22	9.0	17.4	78	33.78	
MW-3	1/5/09	21:00	7.2	78	18	9.2	17.0	82	33.80	

Table 2
Groundwater Parameter Data in Observation Wells for 5-day test on MW-4
Shell Branded Station, 4212 First Street, Pleasanton, CA

Dual Phase Extraction operation (From 1/5/09 13:45 to 1/10/2008 8:00)

Well	Date	Time	pH	EC (uS/cm)	Turbidity (NTU)	DO (mg/L)	Temp. (°C)	ORP	DTW	Comments
MW-3	1/6/09	1:00	7.0	80	20	8.8	17.2	94	33.82	
MW-3	1/6/09	5:00	6.9	79	22	8.9	17.1	154	33.82	
MW-3	1/6/09	12:00	6.9	81	20	8.8	19.0	168	33.62	
MW-3	1/6/09	16:00	6.8	81	18	10.3	17.0	174	33.60	
MW-3	1/6/09	20:00	6.6	81	35	9.2	17.8	161	33.70	
MW-3	1/7/09	0:00	6.8	81	22	10.1	17.4	158	33.75	
MW-3	1/7/09	4:00	6.9	80	28	10.3	17.0	161	33.82	
MW-3	1/7/09	8:20	7.1	0	30	8.9	16.0	178	33.64	
MW-3	1/7/09	12:00	6.8	88	36	9.2	17.2	81	33.90	
MW-3	1/7/09	16:00	6.9	0	31	10.4	15.0	3	33.94	
MW-3	1/7/09	20:00	6.7	0	34	9.9	15.3	198	33.95	
MW-3	1/8/09	0:00	6.8	88	29	10.1	16.4	163	33.97	
MW-3	1/8/09	4:00	6.8	88	29	10.1	16.4	163	33.97	
MW-3	1/8/09	8:00	6.5	0.11	21	9.7	18.3	98	34.01	
MW-3	1/8/09	12:00	6.8	0.11	26	10.1	17.8	104	34.09	
MW-3	1/8/09	16:00	6.8	0.11	26	10.1	17.6	100	34.10	
MW-3	1/8/09	20:00	6.5	0.10	24	9.8	17.9	98	34.10	
MW-3	1/9/09	0:00	6.8	0.11	26	9.9	16.8	152	34.11	
MW-3	1/9/09	4:00	6.9	0.11	26	9.8	17.1	101	34.15	
MW-3	1/9/09	8:20	6.9	0.11	26	10.1	17.9	171	33.90	
MW-3	1/9/09	12:00	6.8	0.11	32	11.5	18.9	128	33.92	
MW-3	1/9/09	16:00	6.9	0.10	30	10.1	17.9	125	33.88	
MW-3	1/9/09	20:00	6.8	0.11	28	10.0	17.6	128	33.88	
MW-3	1/9/09	0:00	6.8	0.10	28	10.2	17.8	129	33.90	
MW-3	1/9/09	4:00	6.8	0.11	28	10.3	17.8	135	33.90	
MW-3	1/9/09	8:00	6.8	0.11	17	10.2	16.4	150	33.90	
MW-4	1/5/09	11:15	5.9	93	NA	NA	16.3	NA	35.60	Before Test Sample Taken
MW-4	1/5/09	14:30	6.8	0	170	10.8	12	26	Extraction Well	
MW-4	1/5/09	14:44	6.6	0.11	170	10.1	13.5	17	Extraction Well	
MW-4	1/5/09	14:59	6.8	97	110	10.2	13.8	13	Extraction Well	
MW-4	1/5/09	15:12	6.8	94	180	9.6	14.9	18	Extraction Well	
MW-4	1/5/09	15:27	6.9	0	200	10.1	13.9	20	Extraction Well	
MW-4	1/5/09	15:42	6.9	95	270	9.9	14	13	Extraction Well	
MW-4	1/5/09	15:59	6.9	95	260	10.0	13.6	19	Extraction Well	
MW-4	1/5/09	16:16	7.2	0	430	10.4	13.2	-3	Extraction Well	
MW-4	1/5/09	18:25	6.6	0	120	12.1	12.3	68	Extraction Well	
MW-4	1/5/09	19:18	6.9	0	135	12.1	12.2	63	Extraction Well	
MW-4	1/5/09	21:00	7.1	0	100	12.1	12.1	72	Extraction Well	
MW-4	1/6/09	1:00	7.0	0	87	11.9	12.2	86	Extraction Well	
MW-4	1/6/09	5:00	7.0	0	15	11.9	11.9	186	Extraction Well	
MW-4	1/6/09	12:00	7.6	0	100	10.7	14.5	185	Extraction Well	
MW-4	1/6/09	16:00	7.4	0	62	11.7	15.6	162	Extraction Well	
MW-4	1/6/09	20:00	7.4	1	110	12.4	11.8	151	Extraction Well	
MW-4	1/7/09	0:00	7.6	0	111	12.1	12.2	153	Extraction Well	

Table 2
Groundwater Parameter Data in Observation Wells for 5-day test on MW-4
Shell Branded Station, 4212 First Street, Pleasanton, CA

Dual Phase Extraction operation (From 1/5/09 13:45 to 1/10/2008 8:00)

Well	Date	Time	pH	EC (uS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (C)	ORP	DTW	Comments
MW-4	1/7/09	4:00	7.4	0	106	11.7	12.1	149	Extraction Well	
MW-4	1/7/09	8:50	7.5	0	110	10.3	13.2	99	Extraction Well	Mid- Test Sample Taken
MW-4	1/7/09	12:00	7.0	88	110	9.6	16.2	10	Extraction Well	
MW-4	1/7/09	16:00	6.9	0	74	10.3	14.8	8	Extraction Well	
MW-4	1/7/09	20:00	7.2	0	83	11.1	14.4	46	Extraction Well	
MW-4	1/7/09	0:00	7.2	92	72	12.1	14.4	88	Extraction Well	
MW-4	1/8/09	4:00	7.0	88	66	11.8	13.9	156	Extraction Well	
MW-4	1/8/09	8:00	7.2	95	40	12.3	13.4	236	Extraction Well	
MW-4	1/8/09	12:00	7.4	0.11	470	10.0	22.3	162	Extraction Well	
MW-4	1/8/09	16:00	7.2	99	68	11.8	22.1	161	Extraction Well	
MW-4	1/8/09	20:00	7.2	0.1	72	11.1	10.8	154	Extraction Well	
MW-4	1/8/09	0:00	7.0	0.11	102	10.8	15.2	156	Extraction Well	
MW-4	1/9/09	4:00	6.9	99	74	11.5	10.8	152	Extraction Well	
MW-4	1/9/09	8:00	7.6	0	45	13.6	10.5	222	Extraction Well	
MW-4	1/9/09	12:00	7.9	0	29	11.3	19.9	177	Extraction Well	
MW-4	1/9/09	16:00	7.2	0	26	10.1	18.9	172	Extraction Well	
MW-4	1/9/09	20:00	7.1	0	26	10.1	18.9	172	Extraction Well	
MW-4	1/9/09	0:00	7.2	0	28	11.1	18.6	176	Extraction Well	
MW-4	1/10/09	4:00	7.2	0	28	11.1	18.6	176	Extraction Well	
MW-4	1/10/09	8:00	7.1	1	24	15.1	8.4	-2	Extraction Well	

Abbreviations:
EC = Electrical conductivity
uS/cm = micro Siemens per centimeter
NTU = Nephelometric turbidity units
DO = Dissolved oxygen
mg/L = Milligrams per liter
Temp = Temperature
C = Celsius
ORP = Oxygen reduction potential
DTW = Depth to water

Table 3

DPE Field Measurements for 8-hour test on MW-1

Shell Branded Station, 4212 First Street, Pleasanton, CA

Dual Phase Extraction operation (From 1/13/2009 9:00 To 1/13/2009 13:00)

Date	Time	Inlet Flow Rate (cfm)	Inlet Applied Vacuum (system) (inH2O)	Induced Vacuum at wellhead (inH2O)	Inlet Hydrocarbon Vapor Conc. (ppm)	Totalizer Reading (Gallons)	Total Volume (Oil + Water) (Gallons)
1/13/2009	9:00	68	26.50	<150	25	1,272,690	0
1/13/2009	9:15	68	26.50	<150	41	1,272,690	0
1/13/2009	9:30	68	26.50	<150	35	1,272,690	0
1/13/2009	9:45	60	26.00	<150	30	1,272,690	0
1/13/2009	10:00	60	26.00	<150	48	1,272,690	0
1/13/2009	10:15	68	26.00	<150	53	1,272,690	0
1/13/2009	10:30	70	25.50	<150	53	1,272,690	0
1/13/2009	10:45	68	25.50	<150	41	1,272,690	0
1/13/2009	11:00	68	25.50	<150	50	1,272,690	0
1/13/2009	12:00	68	25.50	<150	25	1,272,690	0
1/13/2009	13:00	68	25.50	<150	27	1,272,690	0

Abbreviations:
cfm = Cubic feet per minute
inH2O = Inches of water
ppm = Parts per million

Table 4
Groundwater Parameter Data in Observation Wells for 8- hour test on MW-1
Shell Branded Station, 4212 First Street, Pleasanton, CA

Dual Phase Extraction operation (From 1/12/2009 10:00 To 1/12/2009 14:00)

Well	Date	Time	pH	EC (uS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (C)	ORP	DTW
MW-1	1/12/09	9:50	6.9	0	140	10.6	14.1	158	Extraction Well
MW-1	1/12/09	10:25	6.7	0.11	130	10	20.3	128	Extraction Well
MW-1	1/12/09	10:40	6.9	0.1	190	10.2	20.2	116	Extraction Well
MW-1	1/12/09	11:10	6.6	94	170	8.9	20.5	90	Extraction Well
MW-1	1/12/09	11:27	6.9	0.1	170	10	21	103	Extraction Well
MW-1	1/12/09	11:44	6.7	94	160	9.6	21.2	97	Extraction Well
MW-1	1/12/09	12:07	7.2	94	160	9.9	21.1	116	Extraction Well
MW-1	1/12/09	13:13	7.2	0	150	9.1	23.2	121	Extraction Well
MW-1	1/12/09	14:30	7.3	0	120	9.3	24.8	90	Extraction Well
MW-2	1/12/09	9:20	7.3	0	52	11.1	17.7	209	38.46
MW-2	1/12/09	10:34	6.6	93	47	10.2	20.1	122	38.15
MW-2	1/12/09	10:40	6.6	0	130	10.4	19.9	124	38.27
MW-2	1/12/09	11:07	6.4	0.1	45	10	20	97	38.52
MW-2	1/12/09	11:26	6.7	0.11	34	10.3	20.5	98	38.75
MW-2	1/12/09	11:43	6.9	0.11	29	10	200.5	99	38.81
MW-2	1/12/09	12:22	6.4	0.1	33	10.1	20	81	38.95
MW-2	1/12/09	13:18	6.3	0.1	30	10	20	83	39.05
MW-2	1/12/09	14:05	7.5	0.12	14	10.2	20.8	126	39.08
MW-3	1/12/09	11:51	NA*	NA*	NA*	NA*	NA*	NA*	34.04
MW-3	1/12/09	13:20	NA*	NA*	NA*	NA*	NA*	NA*	34.09
MW-3	1/12/09	14:35	NA*	NA*	NA*	NA*	NA*	NA*	34.14
MW-4	1/12/09	9:20	6.9	84	240	10.9	18.1	220	38.43
MW-4	1/12/09	10:17	6.7	85	160	10.5	19.6	142	37.69
MW-4	1/12/09	10:37	6.7	85	170	10.6	19.8	106	37.75

Table 4
Groundwater Parameter Data in Observation Wells for 8- hour test on MW-1
Shell Branded Station, 4212 First Street, Pleasanton, CA

Dual Phase Extraction operation (From 1/12/2009 10:00 To 1/12/2009 14:00)

Well	Date	Time	pH	EC (uS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP	DTW
MW-4	1/12/09	10:50	6.5	0	170	10.2	19.7	93	37.85
MW-4	1/12/09	11:18	7.0	85	200	10.4	20.2	100	37.71
MW-4	1/12/09	11:38	6.9	0	120	10.2	19.8	106	37.77
MW-4	1/12/09	12:14	6.7	0	130	10.1	20.0	101	37.66
MW-4	1/12/09	13:07	7.1	0	150	9.3	22.7	132	37.48
MW-4	1/12/09	14:15	7.3	86	150	10.2	21.6	132	37.44

Abbreviations:
EC = Electrical conductivity
uS/cm = micro Siemens per centimeter
NTU = Nephelometric turbidity units
DO = Dissolved oxygen
mg/L = Milligrams per liter
Temp = Temperature
C = Celsius
ORP = Oxygen reduction potential
DTW = Depth to water

Notes:
* Insufficient water for sample in MW-3

Table 5

DPE Field Measurements for 8-hour test on MW-2

Shell Branded Station, 4212 First Street, Pleasanton, CA

Dual Phase Extraction operation (From 1/13/09 9:00 To 1/13/09 13:00)

Date	Time	Inlet Flow Rate (cfm)	Inlet Applied Vacuum (system) (inH2O)	Induced Vacuum at wellhead (inH2O)	Inlet Hydrocarbon Vapor conc. (ppm)	Totalizer Reading (Gallons)	Total Volume Of Extracted (gallons)
1/13/2009	9:00	85	24.00	75	25	1,272,728	0
1/13/2009	9:15	80	25.25	75	50	1,272,728	0
1/13/2009	9:30	120	23.50	75	78	1,272,735	7
1/13/2009	9:45	122	23.50	75	89	1,272,735	7
1/13/2009	10:00	122	23.50	75	82	1,272,735	7
1/13/2009	10:15	122	23.50	75	84	1,272,735	7
1/13/2009	10:30	122	24.00	75	85	1,272,735	7
1/13/2009	10:45	122	24.00	75	85	1,272,735	7
1/13/2009	11:00	125	24.00	75	112	1,272,735	7
1/13/2009	12:00	125	24.00	75	113	1,272,735	7
1/13/2009	13:00	125	24.00	75	121	1,272,735	7

Abbreviations:
cfm = Cubic feet per minute
inH2O = Inches of water
ppm = Parts per million

Table 6
Groundwater Parameter Data in Observation Wells for 8- hour test on MW-2
Shell Branded Station, 4212 First Street, Pleasanton, CA

Dual Phase Extraction operation (From 1/13/2009 9:00 To 1/13/2009 13:00)

Well	Date	Time	pH	EC (uS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP	DTW
MW-1	1/13/09	9:00	7.2	0.17	29	10.8	15.8	213	39.71
MW-1	1/13/09	9:15	6.6	0.16	350	10.7	17.7	199	40.09
MW-1	1/13/09	9:30	6.6	0	560	10.8	18.3	164	40.31
MW-1	1/13/09	9:45	6.6	0	0	10.9	18.4	144	40.45
MW-1	1/13/09	10:00	6.6	0.16	630	10.6	19.1	151	40.61
MW-1	1/13/09	10:15	6.6	0	680	10.9	19.6	128	40.85
MW-1	1/13/09	10:30	6.6	0.17	440	11.1	20.1	122	40.8
MW-1	1/13/09	10:45	6.7	0.18	550	11.5	19.5	120	40.75
MW-1	1/13/09	11:20	6.6	0	360	11.4	18.5	138	40.61
MW-1	1/13/09	12:00	6.7	0	360	10.8	20	150	40.34
MW-1	1/13/09	13:00	7.2	0.18	360	10.3	21.7	141	40.15
MW-2	1/13/09	9:00	6.8	0	9	11.2	15.3	206	36.96
MW-2	1/13/09	9:15	7	0	560	13.2	13.7	170	Extraction Well
MW-2	1/13/09	9:30	6.6	0.12	81	12.6	15.1	155	Extraction Well
MW-2	1/13/09	9:45	6.4	0	73	10.3	14.8	128	Extraction Well
MW-2	1/13/09	10:00	6.9	0	36	11.9	16.7	121	Extraction Well
MW-2	1/13/09	10:15	6.8	0.12	69	11.5	18.4	122	Extraction Well
MW-2	1/13/09	10:30	6.7	1	60	11.9	19.1	111	Extraction Well
MW-2	1/13/09	10:45	6.4	1	55	11.7	18.5	80	Extraction Well
MW-2	1/13/09	11:25	6.8	0.12	76	11.2	18.8	138	Extraction Well
MW-2	1/13/09	12:00	6.6	0	50	10.3	21	153	Extraction Well
MW-2	1/13/09	13:00	6.8	0.13	46	8.4	26.2	141	Extraction Well
MW-3	1/13/09	9:45	NA*						33.96
MW-3	1/13/09	13:30							33.95

Table 6
Groundwater Parameter Data in Observation Wells for 8- hour test on MW-2
Shell Branded Station, 4212 First Street, Pleasanton, CA

Dual Phase Extraction operation (From 1/13/2009 9:00 To 1/13/2009 13:00)

Well	Date	Time	pH	EC (uS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (C)	ORP	DTW
MW-4	1/13/09	9:00	6.9	1	26	10.6	16.3	206	36.87
MW-4	1/13/09	9:15	6.5	87	74	10.3	18.8	192	36.96
MW-4	1/13/09	9:30	6.6	99	68	10.2	19.4	157	37.01
MW-4	1/13/09	9:45	6.5	0	110	10.4	19.4	139	37.15
MW-4	1/13/09	10:00	6.7	87	120	10.2	19.0	123	37.11
MW-4	1/13/09	10:15	6.7	89	120	10.8	19.7	124	37.11
MW-4	1/13/09	10:30	6.6	1	110	11.3	20.2	116	37.05
MW-4	1/13/09	10:45	6.8	84	74	11.3	19.7	114	37.05
MW-4	1/13/09	11:15	6.8	0.9	54	11.3	18.4	137	36.95
MW-4	1/13/09	12:00	6.7	90	62	10.6	20.3	146	36.85
MW-4	1/13/09	13:00	7.0	1	67	10.9	20.3	135	36.87

Abbreviations:
EC = Electrical conductivity
uS/cm = micro Siemens per centimeter
NTU = Nephelometric turbidity units
DO = Dissolved oxygen
mg/L = Milligrams per liter
Temp = Temperature
C = Celsius
ORP = Oxygen reduction potential
DTW = Depth to water

Notes:
* Insufficient water for sample in MW-3

Table 7
Groundwater and Vapor Analytical Results from All Tests
Shell Branded Station, 4212 First Street, Pleasanton, CA

GROUNDWATER SAMPLES

Well ID	Test	Test Event	TPH-G (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	TPH-D (ug/L)	MTBE 8260 (ug/L)	TBA (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	EDB (ug/L)	EDC (ug/L)
MW-1	5-day (MW-4)	Pre-Test	**2,400**	**26**	<25	<25	<25	**2,700**	<50	<50	<50	**930**	< 2500	**83**	<25
MW-2	5-day (MW-4)	Pre-Test	**2,000**	<10	<20	<20	<20	**2,300**	<40	<40	<40	**480**	<2000	<10	<20
MW-3	5-day (MW-4)	Pre-Test	<50	<0.50	<1.0	<1.0	<1.0	**1.6**	<2.0	<2.0	<2.0	<10	<100	<0.50	<1.0
MW-4	5-day (MW-4)	Pre-Test	**13,000**	<50	<100	<100	<100	**16,000**	<200	<200	<200	**3,800**	<10000	<50	<100
MW-1	5-day (MW-4)	Mid -Test	**2,000**	<0.50	<1.0	<1.0	<1.0	**3,100**	**6.1**	<2.0	**5.9**	**820**	<100	**66**	<1.0
MW-2	5-day (MW-4)	Mid -Test	**1,800**	<0.50	<1.0	<1.0	<1.0	**2,900**	<2.0	<2.0	**4.4**	**55**	<100	<0.50	<1.0
MW-3	5-day (MW-4)	Mid -Test	<50	<0.50	<1.0	<1.0	<1.0	**4.1**	<2.0	<2.0	<2.0	<10	<100	<0.50	<1.0
MW-4	5-day (MW-4)	Mid -Test	**7,000**	**200**	**4.9**	**130**	**280**	**2,600**	<2.0	<2.0	**7.8**	**1,700**	<100	<0.50	<1.0
MW-1	5-day (MW-4)	Post-Test	**1,500**	<2.5	<5.0	<5.0	<5.0	**1,300**	<10	<10	<10	**130**	<500	**36**	<5.0
MW-2	5-day (MW-4)	Post-Test	**1,200**	<0.5	<1.0	<1.0	<1.0	**1,300**	<2.0	<2.0	**2.5**	**23**	**120**	<0.50	<1.0
MW-3	5-day (MW-4)	Post-Test	<50	<0.50	<1.0	<1.0	<1.0	**5.1**	<2.0	<2.0	<2.0	<10	**190**	<0.50	<1.0
MW-4	5-day (MW-4)	Post-Test	**10,000**	**370**	<10	**160**	**430**	**2,000**	<20	<20	<20	**2,100**	<1000	<10	<5.0
MW-1	8 hr (MW-1)	Pre-Test	**3,100**	**46**	<10	<10	<10	**2,400**	<20	<20	<20	**720**	<1000	**220**	<10
MW-2	8 hr (MW-1)	Pre-Test	**2,100**	<2.5	<5.0	<5.0	<5.0	**2,000**	<10	<10	<10	<50	<500	<2.5	<5.0
MW-3	8 hr (MW-1)	Pre-Test	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	8 hr (MW-1)	Pre-Test	**18,000**	<50	<100	<100	<100	**15,000**	<200	<200	<200	**1,500**	<10000	<50	<100
MW-1	8 hr (MW-1)	Mid-Test	**5,500**	**61**	<25	<25	**77**	**4,000**	<50	<50	<50	**720**	<2500	<12	<25
MW-2	8 hr (MW-1)	Mid-Test	**2,600**	<10	<20	<20	<20	**2,500**	<40	<40	<40	<200	<2000	<10	<20
MW-3	8 hr (MW-1)	Mid-Test	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	8 hr (MW-1)	Mid-Test	**17,000**	<50	<100	<100	<100	**16,000**	<200	<200	<200	**1,700**	<10000	<50	<100
MW-1	8 hr (MW-1)	Post-Test	**6,200**	**92**	<25	**27**	<100	**3,700**	<50	<50	<50	**660**	<2500	<12	<25
MW-2	8 hr (MW-1)	Post-Test	**3,100**	<5.0	<10	<10	<10	**2,400**	<20	<20	<20	<100	<1000	<5.0	<10
MW-3	8 hr (MW-1)	Post-Test	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	8 hr (MW-1)	Post-Test	**17,000**	<25	<50	<50	<50	**13,000**	<100	<100	<100	**1,300**	<5000	<25	<50
MW-1	8 hr (MW-2)	Pre-Test	**3,600**	<10	<20	<20	<20	**2,600**	<40	<40	<40	**1,000**	<2000	**96**	<20
MW-2	8 hr (MW-2)	Pre-Test	**3,300**	<10	<20	<20	<20	**2,700**	<40	<40	<40	<200	<2000	<10	<20
MW-3	8 hr (MW-2)	Pre-Test	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	8 hr (MW-2)	Pre-Test	**18,000**	<50	<100	<100	<100	**15,000**	<200	<200	<200	<1000	<10000	<50	<100
MW-1	8 hr (MW-2)	Mid-Test	**2,500**	<12	<25	<25	<25	**2,500**	<50	<50	<50	**970**	<2500	**140**	<25
MW-2	8 hr (MW-2)	Mid-Test	**1,300**	**21**	<20	<20	**23**	**850**	<40	<40	<40	**350**	<2000	<10	<20
MW-3	8 hr (MW-2)	Mid-Test	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	8 hr (MW-2)	Mid-Test	**17,000**	<50	<100	<100	<100	**14,000**	<200	<200	<200	**1,000**	<10000	<50	<100
MW-1	8 hr (MW-2)	Post-Test	**2,900**	<10	<20	<20	<20	**2,200**	<40	<40	<40	**830**	<2000	**140**	<20
MW-2	8 hr (MW-2)	Post-Test	**940**	**6.7**	<10	<10	<10	**660**	<20	<20	<20	**250**	<1000	<5.0	<10
MW-3	8 hr (MW-2)	Post-Test	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	8 hr (MW-2)	Post-Test	**15,000**	<10	<20	<20	<20	**15,000**	<40	<40	**49**	**1,000**	<2000	<10	<20

Table 7
Groundwater and Vapor Analytical Results from All Tests
Shell Branded Station, 4212 First Street, Pleasanton, CA

VAPOR SAMPLES														
MW-4 DPE Influent	5-day (MW-4)	Pre-Test	**420**	**0.1**	**0.12**	<0.05	<0.20	**17**	NS	NS	NS	<0.2	NS	NS	NS
MW-4 DPE Influent	5-day (MW-4)	Mid-Test	**4,900**	**19**	**1.6**	12	16	**23**	NS	NS	NS	**2.7**	NS	NS	NS
MW-4 DPE Influent	5-day (MW-4)	Post-Test	**3,600 a**	**22 a**	**3.1 a**	**22 a**	**38 a**	**24 a**	24 a	NS	NS	<2.0 a	NS	NS	NS
MW-1 DPE Influent	8-hr (MW-1)	Pre-Test	**73**	**0.079**	**0.0067**	**0.15**	**0.32**	**0.5**	NS	NS	NS	**0.08**	NS	NS	NS
MW-1 DPE Influent	8-hr (MW-1)	Mid-Test	**31**	**0.03**	**0.0051**	**0.067**	**0.17**	**0.19**	NS	NS	NS	**0.043**	NS	NS	NS
MW-1 DPE Influent	8-hr (MW-1)	Post-Test	**22**	**0.031**	**0.0059**	**0.066**	**0.16**	**0.2**	NS	NS	NS	**0.056**	NS	NS	NS
MW-2 DPE Influent	8-hr (MW-2)	Pre-Test	**21**	**0.019**	**0.085**	**0.051**	**0.12**	**0.92**	NS	NS	NS	<0.010	NS	NS	NS
MW-2 DPE Influent	8-hr (MW-2)	Mid-Test	**91**	**0.019**	**0.012**	**0.052**	**0.16**	**7.4**	NS	NS	NS	<0.040	NS	NS	NS
MW-2 DPE Influent	8-hr (MW-2)	Post-Test	**120**	**0.016**	<0.012	**0.053**	**0.16**	**8.1**	NS	NS	NS	<0.050	NS	NS	NS

Abbreviations:
TPPH = Total purgeable petroleum hydrocarbons as gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total xylenes
MTBE = Methyl tert-butyl ether by EPA Method 8260
DIPE = Diisopropyl ether
ETBE = Ethyl tert-butyl ether
TAME = Tert-amyl methyl ether
TBA = Tert-butyl alcohol
1,2-DCA = 1,2-dichloroethane
EDB = Ethylene dibromide
ug/L = Micrograms per liter
< = Denotes no reported concentrations above shown detection limit
NS = Not sampled
ppm = Parts per million

Notes:
BTEX, MTBE, and TBA air sample resutls reported in parts per billion(ppb). Analytical Results converted to parts per million, formula: ppb*10^-3 = ppm
a = Sample Received After Recommended Hold Time

Table 8
Hydrocarbon Mass Removal from Vapor and Groundwater
Shell Branded Station, 4212 First Street, Pleasanton, CA

VAPOR MASS RECOVERY

Test	Time (Hours)	Flow Rate (cfm)	Benzene Concentration (ppmv)	TPH-g Concentration (ppmv)	MTBE Concentration (ppmv)	TPH-g Concentration (lbs/cf)	Total Hydrocarbon Mass Removed (pounds)
5-Day Test (MW-4)	110.25	55	420	4,900	3,600	2,973	285.6
8-hr Test (MW-1)	4	67	73	31	22	42	0.18
8-hr Test (MW-2)	4	115	21	91	120	77	0.56

GROUNDWATER MASS RECOVERY

Test	Time (Hours)	Flow Rate (cfm)	Benzene Concentration (ppmv)	TPH-g Concentration (ppmv)	MTBE Concentration (ppmv)	TPH-g Concentration (lbs/cf)	Total Hydrocarbon Mass Removed (pounds)
5-Day Test (MW-4)	110.25	2,741	13,000	7,000	10,000	10,000	0.23
8-hr Test (MW-1)	4	0	3,100	5,500	6,200	4,933	0.00
8-hr Test (MW-2)	4	7	3,600	2,500	2,900	3,000	0.0002

TPH-g = Total petroleum hydrocarbons as gasoline
cfm = Cubic feet per minute
ppm = Parts per million
lbs = Pounds
ug/L = Micrograms per liter
System Flow is noted as average airflow through DPE unit during test period
Vapor Mass Calculation: (Flow(ft^3/min) *(60min/hr)*Operating Hours)*(Avg. Concentration)*(10^-6 ppmv/v)*(0.264, which is vapor density)
Groundwater Mass Calculation: (total gallons)*(3.78L /gallon)*(Avg. concentration (ug/l))*(10^-9 kg/ug)*(2.205lb/kg)

ATTACHMENT A

DPE WORK PLAN AND LETTER OF CORRESPONDENCE

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

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

September 9, 2008

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

Douglas and Mary Safreno
1627 Vineyard Avenue
Pleasanton, CA 94566-6389

Subject: Fuel Leak Case No. RO0000360 and Geotracker Global ID T0600101259, Shell#13-5782, 4226 First Street, Pleasanton, CA 94566

Dear Mr. Brown and Mr. and Ms. Safreno:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the reports entitled, "*Dual-Phase Extraction Feasibility Study and Batch Extraction Workplan, Shell-branded Service Station, 4226 First Street, Pleasanton, California*," dated March 12, 2008 (Work Plan) and "*Second Quarter 2008 Groundwater Monitoring Report, Shell-branded Service Station, 4226 First Street, Pleasanton, California*," dated August 13, 2008. Both reports were prepared on Shell's behalf by Delta Environmental Consultants, Inc. Work Plan proposes a 5-day dual-phase extraction (DPE) pilot test and batch groundwater extraction.

The proposal to conduct a DPE pilot test is acceptable; however, we have several technical comments and additions to the proposed methods for the DPE event. The DPE pilot test may be implemented provided that the technical comments below are addressed and incorporated during the proposed activities. 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 comments 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. **Water Supply Wells.** The "*Second Quarter 2008 Groundwater Monitoring Report, , Shell-branded Service Station, 4226 First Street, Pleasanton, California*," dated August 13, 2008 states that, "No municipal water supply wells were identified within a 1-mile radius of the site." However, a review of the Well Location Map in the, "Initial Site conceptual Model (September 2005) dated February 6, 2006 indicates that a municipal water supply well is located approximately 1,200 feet northwest of the site. A well of unknown use appears to be located approximately 1,000 feet northwest of the site. Please review the sensitive receptor survey

for the site and correct future reports as necessary. In addition, all water supply wells rather than just municipal supply wells should be considered sensitive receptors.

2. **Site Location on Figure 1.** The location of the site on Figure 1 in both reports is incorrect. Please correct the location in future reports.

3. **Extraction Wells.** Well MW-4 is the only well proposed for testing during the DPE pilot test. The concentrations of fuel hydrocarbons and oxygenates are highest in groundwater from well MW-4. Therefore, we have no objection to the DPE event being conducted primarily within well MW-4. However, we request that you also conduct DPE testing for up to 8 hours within wells MW-1 and MW-2.

4. **Vapor Extraction Rate.** The applied vacuum should be incremental increased to determine the optimal extraction rate for maximum air flow. Once determined, the optimal extraction rate should be used to determine induced vacuum and sustained rates of contaminant extraction.

5. **Monitoring Parameters.** Please include measurements of water level drawdown in proximal wells during the DPE testing. In additional, the volume of groundwater extracted should be measured continuously using a totalizing meter.

6. **Analytical Methods.** The proposed analytical methods for soil and groundwater samples are acceptable. The Work Plan proposes analysis of soil vapor samples using method TO-14. We request that you use EPA Method 8260B for analysis of soil vapor samples rather than TO-14. The more current TO-14A or TO-15 analytical methods are also acceptable for analysis of the soil vapor samples.

7. **Proposed Batch Extraction.** Extraction of 20,000-gallons of water is proposed from well MW-1 to reduce off-site migration. We do not believe that batch extraction has very limited effectiveness for this site and is not cost effective. Therefore, unless you provide further technical justification to demonstrate that pumping 20,000 gallons of water from well MW-1 is effective in preventing off-site migration, we do not concur with implementation of batch extraction and recommend that the UST Cleanup Fund not reimburse any future costs for batch extraction.

8. **Groundwater Monitoring.** Please continue quarterly groundwater sampling and present the results in the quarterly monitoring reports requested below.

9. **Report Submittals.** We received hard copies of the "Draft Corrective Action Report," dated November 2, 2007 and "Third Quarter 2007 Groundwater Monitoring Report," dated November 10, 2007. Electronic versions of these reports were uploaded to Geotracker but not uploaded to the ACEH ftp site. Please submit these two reports in electronic form in order to complete the ACEH agency files for this case. The report entitled, "*Site Investigation and Interim Remedial Action Report*," dated June 25, 2007 is missing attachments D, E, F, and G, which includes Pumping Test Data. Please resubmit "*Site Investigation and Interim Remedial Action Report*," dated June 25, 2007 to the ACEH website and Geotracker with all attachments.

TECHNICAL REPORT REQUEST

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

- **January 14, 2009** – DPE Pilot Test Report
- **45 days following the end of each quarter** – Quarterly Monitoring Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

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

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or

certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

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

AGENCY OVERSIGHT

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

If you have any questions, please call me at (510) 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

Danielle Stefani, Livermore-Pleasanton Fire Department, 3560 Nevada Street
Pleasanton, CA 94566

Rich Garlow, Delta Environmental Consultants, Inc., 312 Piercy Road, San Jose, CA 95138

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

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

Effective January 31, 2006, 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 Alicia Lam-Finneke.
   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 at 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)

March 12, 2008
Project SCA421211
SAP No. 135782

Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, California 94502

Re: Dual-Phase Extraction Feasibility Study and Batch Extraction Workplan
Shell-branded Service Station
4226 First Street
Pleasanton, California

Dear Mr. Wickham,

Delta Consultants, Inc. (DELTA), on behalf of Shell Oil Products US (SHELL), has prepared this Dual-phase Extraction Feasibility Study Workplan for remediation enhancement at the site referenced above (Figures 1 and 2). This work plan is prepared in response to a letter from the Alameda County Health Care Services Agency (ACHCSA) dated December 14, 2007. The ACHCSA letter indicated that the Draft Corrective Action Plan (CAP) submitted by SHELL dated November 2, 2007 was not sufficient to select the most suitable remedial action for the site. The letter requested that SHELL address technical comments and submit a Pilot Work Plan or Revised Draft CAP by February 14, 2008. Due to data loss resulting from a robbery at our offices DELTA requested and received a deadline extension to March 14, 2008.

RESPONSE TO TECHNICAL COMMENTS

The ACHCSA requested that SHELL evaluate soil vapor extraction (SVE) and dual-phase extraction (DPE) as potential remedial technology for the site. DELTA, in the Draft CAP, had concluded that air sparging and oxygen injection were considered unsuitable due to the fine-grained nature of soils at the site. ACHCSA, based on a review of site boring logs and cross-sections, concluded that highly permeable beds exist within the primarily fine-grained soils at the site.

Soil Descriptions and Classifications

Soil from the ground surface to a depth of approximately 95 feet below ground surface (bgs) is composed of silt, silty fine sand, or clayey fine sand. A geologic cross section is provided as Figure 3. The fine-grained soils are

a member of Inogen Environmental Alliance

175 Bernal Road Suite 200 San Jose, California 95119 USA
Phone 408.224.4724 / 800.477.7411 Fax 408.225.8506 www.deltaenv.com

classified on boring logs as ML, SM, and SC, respectively by the Unified Soil Classification System. The sandy soils typically contain 20% to 40% fines that reduce the permeability of the deposits. In the north-northeastern portion of the site, sediments become coarse grained. Borings MW-1, SB-7 and SB-5 (Attachment A) encountered coarse-grained sediments between a depth of approximately 20 feet and 55 feet bgs consisting of clayey sandy gravel (GP), gravelly sand with silt (SP), and clayey gravel (GC). DELTA concludes these are the soil layers referenced in the ACHCSA letter dated December 14, 2007, described as having moderate to high estimated permeability. A thick deposit of silt (ML) was encountered from approximately 55 feet bgs to the top of the lower aquifer at a depth of approximately 100 feet bgs.

Depth to groundwater in shallow monitoring wells is approximately 30 feet bgs and the groundwater flow direction is north to northeast.

Pumping Tests

Step drawdown tests were conducted to provide data for evaluating various remedial technologies for the Draft CAP. The tests were performed using Wells MW-1 and MW-4 (Figure 2). Well MW-1 is screened in soils described as gravelly sand with silt (SP), sandy gravel (GP), and clayey gravelly sand (SP). Well MW-4 is screened in soils described as sandy lean clay with gravel. The soil contained 10% to 20% gravel, 20% to 30% fine sand, and 50% to 70% clay.

The sustainable pumping rate for well MW-1 was determined to be 0.55 gallons per minute (gpm). A hydraulic conductivity of 3.59 x 10-5 cm/sec was calculated using the average pumping rate during the test (0.48 gpm). This value is typical of silt (Freeze and Cherry, 1979) and does seem consistent with boring log descriptions.

The step drawdown test at Well MW-4 produced a sustainable pumping rate of 0.4 gpm. A hydraulic conductivity of 3.17 x 10-5 centimeters per second (cm/sec) was calculated using the average pumping rate during the test of 0.48 gpm. This value is typical of silt (Freeze and Cherry, 1979) and is consistent with the description of soils on boring logs. The above results led DELTA to consider all site soils as low permeability.

Distribution of Petroleum Hydrocarbons and Methyl Tert-butyl Ether (MTBE)

Petroleum hydrocarbons and MTBE are concentrated in soils in the 30 to 55 foot depth interval (see Figure 3). The highest concentrations of MTBE were from soil samples in the northern portion of the site. The highest MTBE concentrations in recent soil samples were from MW-4 at depths of 44.5 and 55 feet (0.59 milligrams per kilogram (mg/kg) and 0.56 mg/kg). Tert-butyl alcohol (TBA) was not detected in any soil samples from the boring for well MW-4. A summary of recent soil analytical data is provided as Attachment B. A photoionization detector (PID) spike was recorded in the following borings, all located in the northern portion of the site (Figure2);

- S-1 at 30 and 35 feet bgs (400 and 575 parts per million (ppm),
- B-3 at 30 feet bgs (536 ppm)
- B-5 at 35 feet bgs (887 ppm),
- SB-4 at 35 feet bgs (650 ppm),
- SB-5 at 35 feet bgs (650 ppm)
- MW-4 at 34 to 44 feet bgs (106 to 762 ppm)

The ability to remove these narrow bands of contaminants is uncertain based on groundwater tests which indicated fine-grained soils. No such spikes were recorded for borings MW-3, SB-3 and B-1 located in the

central and southern portion of the site. However, the deepest PID reading in these three borings was at 30 feet bgs.

Analytical results indicate total petroleum hydrocarbons as gasoline (TPH-g), MTBE, and TBA are concentrated in shallow groundwater in the area of wells MW-1, MW-2 and MW-4 in the northern portion of the site (Figure 2). The maximum detected concentration of total petroleum hydrocarbons as gasoline (TPH-g) in groundwater have occurred in wells MW-1, MW-2 and MW-4. The highest concentrations of TPH-g and MTBE in groundwater are currently detected in well MW-4 at 8,200 micro grams per liter (ug/l) and 11,000 ug/l (June 2007). Analyses for the presence of TBA was not performed in groundwater samples from well MW-4. The highest detected current concentration of TBA in groundwater is 1,500 ug/l in well MW-1.

Analytical results indicate that MTBE and TBA have been detected at various depths. MTBE and TBA were detected in deep well MW-1B at 35 ug/l and 7.11 ug/l in the August 22, 2007 sampling.

INTERIM REMEDIAL ACTION WORKPLAN

DELTA/SHELL'S first priority was to reduce off-site migration of contaminants. Approximately 7,000 gallons of groundwater were extracted during activities in 2007. Groundwater extraction was also prompted in an attempt to reverse downward migration of contaminants towards the deeper aquifer. The ACHCSA in their letter dated December 12, 2007 concluded "...no further temporary groundwater extraction is requested at this site."

Based on elevated dissolved TPH-g and MTBE concentrations present in the vicinity of groundwater monitoring well MW-4, Delta recommends the performance of a Dual Phase Extraction (DPE) test. Specifically, Delta recommends a 5 day DPE Feasibility Study for the purpose of evaluating this technique for source area mitigation. The feasibility is assessed by estimating influent hydrocarbon concentration, hydrocarbon mass recovery rates, soil vapor radius of influence (ROI), and groundwater production rates.

Approximately one week after the DPE is completed groundwater extraction will be conducted at MW-1 to address off-site migration. Extraction will be continued until 20,000 gallons of groundwater have been extracted.

The following sections detail the proposed extraction activities.

Chemicals of Concern

TPH-g, MTBE, and TBA are the chemicals of concern in groundwater based on analytical results from previous and ongoing quarterly groundwater monitoring and sampling.

Pre-field Activities

DELTA will prepare a site-specific Health and Safety Plan, which will be reviewed daily by all field personnel. Prior to initiation of field activities, Calclean (or another contractor) and DELTA will notify the Bay Area Air Quality Management District (BAAQMD) of the upcoming event. DELTA and Calclean field personnel will oversee the operations of the 450-CFM system under permit. DELTA will obtain a temporary water storage tank and will extract a maximum of 10,000 gallons of groundwater during the event.

DPE Event

Delta proposes a 5-day High Vacuum DPE Test be conducted by extracting from well MW-4 which contains the highest detected concentration of contaminants. Well MW-4 is 47 feet deep and screened from 37 to 47 feet bgs.

The well casing is four inch diameter, schedule 40 PVC. Groundwater will be lowered by extracting groundwater to expose the well screens. Once the well screen is exposed, soil vapor will be extracted from the well by applying a high vacuum, up to 29 inches of mercury, to the well using a 25-horsepower, liquid ring pump.

Inlet flow rates, applied vacuums, induced vacuums, and inlet hydrocarbon concentrations will be measured at approximately 15-minute intervals for the first 2 hours, at 1 hour intervals during the third hour, at 2-hour intervals from the third hour to the twelfth hour, and at 4 hour intervals up until the 5th day. Vapor concentration will be measured using a Horiba MEXA 324JU, capable of analyzing petroleum hydrocarbons vapors up to 10,000 parts per million by volume (ppmv). Induced vacuums will be measured with vacuum gauges placed on wells MW-1, MW-2, MW-3 in order to monitor the negative pressure gradient induced by DPE. Induced vacuum will be measured hourly.

Using Tedlar bags, vapor samples will be collected from the DPE system influent vapor stream at the start, mid, and end of activities. Influent samples will be collected by the subcontractor and DELTA personnel throughout the test from wells MW-1 and MW-4, separately, and simultaneously. Vapor samples will be analyzed for TPH-g, benzene, toluene, ethybenzene and total xylenes (BTEX), TBA, and MTBE using USEPA Method TO-14. Both the vapor and groundwater samples will be logged on chain-of-custody forms, and submitted to Cal-Science Laboratories, Inc. for analysis. Pre and post groundwater samples will be collected and analyzed for TPH-g; BTEX compounds; MTBE; 1, 2 dichloroethane (1,2 DCA); tert-amyl methyl ether (TAME); TBA, di-isoproply ether (DIPE); 1,2-dibromoethane (EDB); ethyl tert-butyl ether (ETBE) and ethanol by USEPA Method 8260B.

Feasibility and Corrective Action Plan Report

Delta will prepare a *Feasibility Testing Results Report* that details the results of the high vacuum, dual phase extraction (HVDPE) tests. The results of the study will be used to evaluate long-term remedial options at the Site.

Possible remedial options for this site consist of one of the following:

1) a monitoring and natural attenuation program if dissolved concentrations are reduced to within Agency-acceptable limits,

2) a series of short-term remediation events if dissolved concentrations are reduced by 25% or more at the conclusion of this pilot study, or

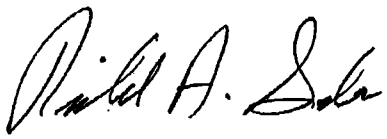
3) full remediation if hydrocarbon concentrations in soil and/or groundwater remain recalcitrant.

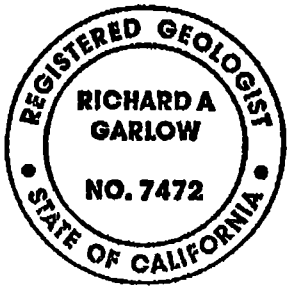
Batch Extraction

Approximately one week following completion of the DPE test a batch extraction will be conducted at MW-1 to reduce off-site migration. Water will be pumped into an onsite storage tank until 20,000 gallons have been removed. The groundwater will be disposed by Shell. The system will be visited on a weekly basis to monitor system operation. Monitoring wells MW-1, MW-2 and MW-4 will be sampled on a monthly basis (scheduling to not duplicate quarterly monitoring sampling) with sample analyses for TPHg, BTEX, MTBE and TBA to monitor concentrations.

Please call Richard Garlow (DELTA) (408) 826-1880 or Denis Brown (SHELL) at (707) 865-0251, if you have any questions regarding the contents of this report.

Sincerely,
Delta Consultants, Inc.





Richard A. Garlow, M.S., P.G.
Project Manager

Attachments:

Figure 1 – Site Location Map

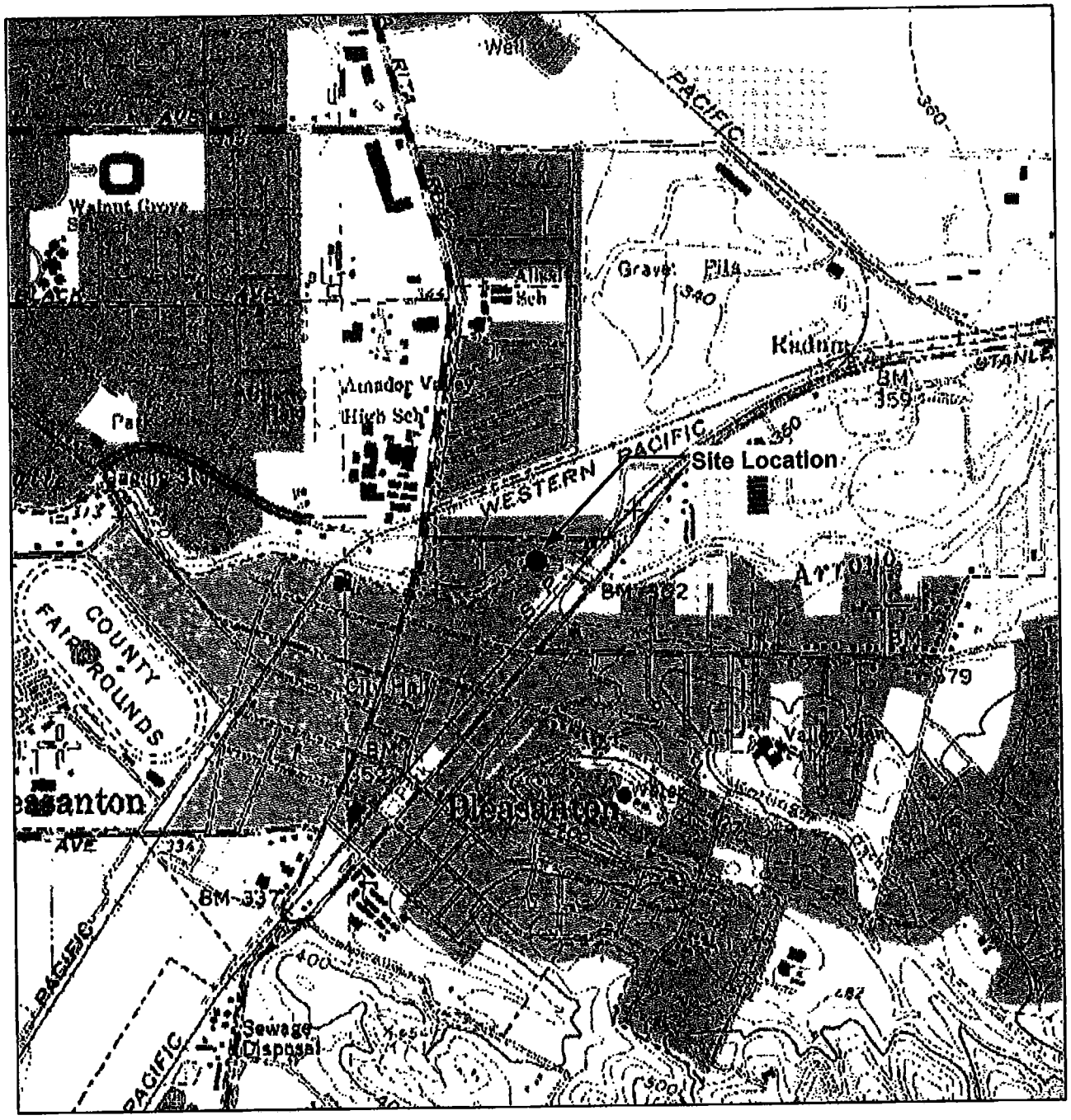
Figure 2 - Site Map

Figure 3 – Geologic Cross Section

Attachment A – Boring Logs

Attachment B – Soil analytical Data

cc: Denis Brown, Shell Oil Products US, Carson and Monte Rio, CA



GENERAL NOTES:
Base Map from: DeLorme Yarmouth, ME 04096
Source Data: USGS

North

QUADRANGLE LOCATION

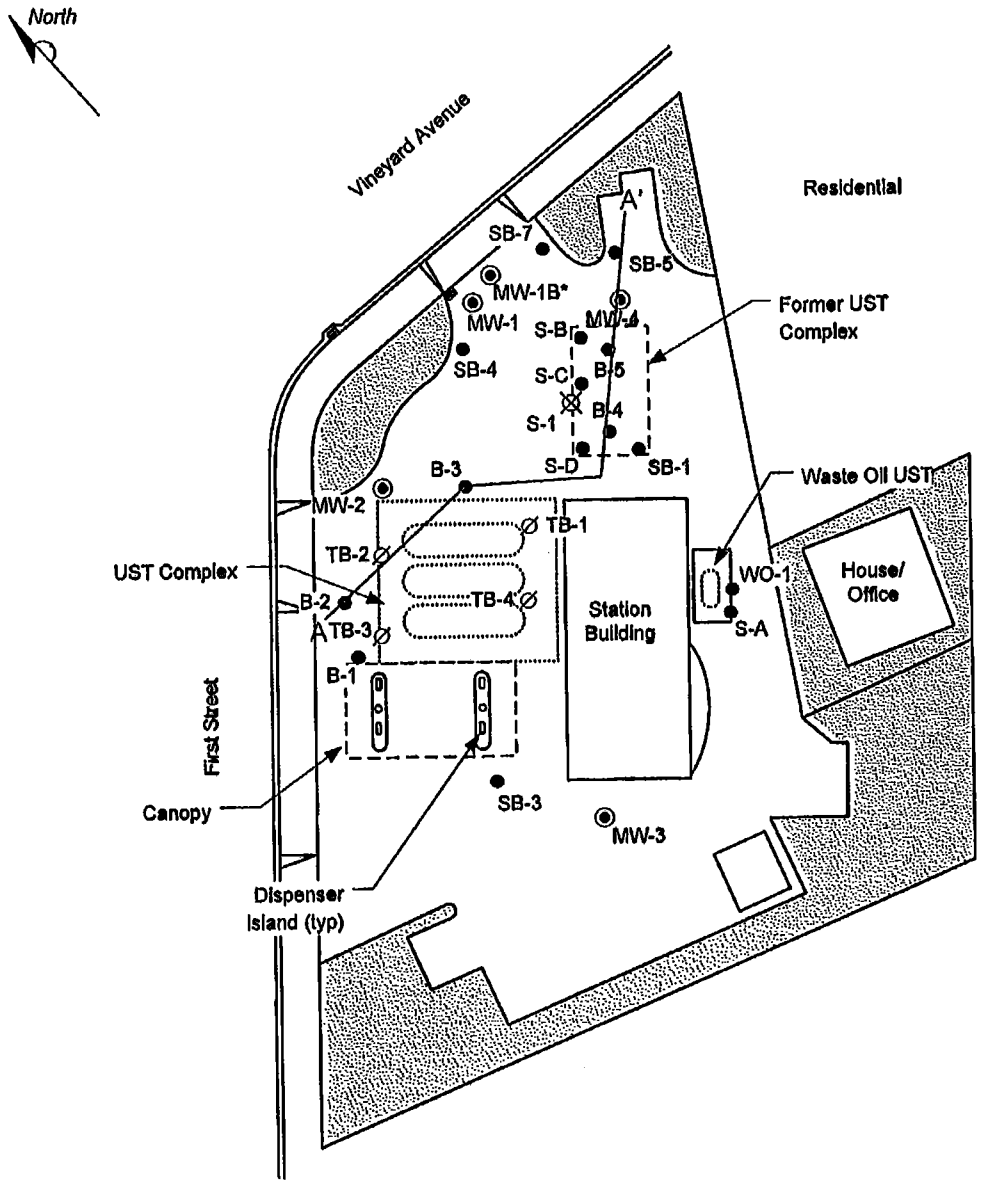
0 1,300 2,600
Scale, Feet

FIGURE 1
SITE LOCATION MAP

SHELL-BRANDED SERVICE STATION
4226 First Street
Pleasanton, California

PROJECT NO. SJ42-26F-1.2005	DRAWN BY V. F. 5/5/05
FILE NO. SJ42-26F-1.2005	PREPARED BY VF
REVISION NO.	REVIEWED BY

Delta
Environmental Consultants, Inc.



LEGEND

MW-2	◉	GROUNDWATER MONITORING WELL LOCATION
S-1	⊠	DESTROYED WELL
TB-1	∅	ABANDONED TANK BACKFILL WELL LOCATION
B-3	●	SOIL BORING LOCATION
A——A'		CROSS SECTION DIRECTION

0 40 FT

APPROX. SCALE

FIGURE 2

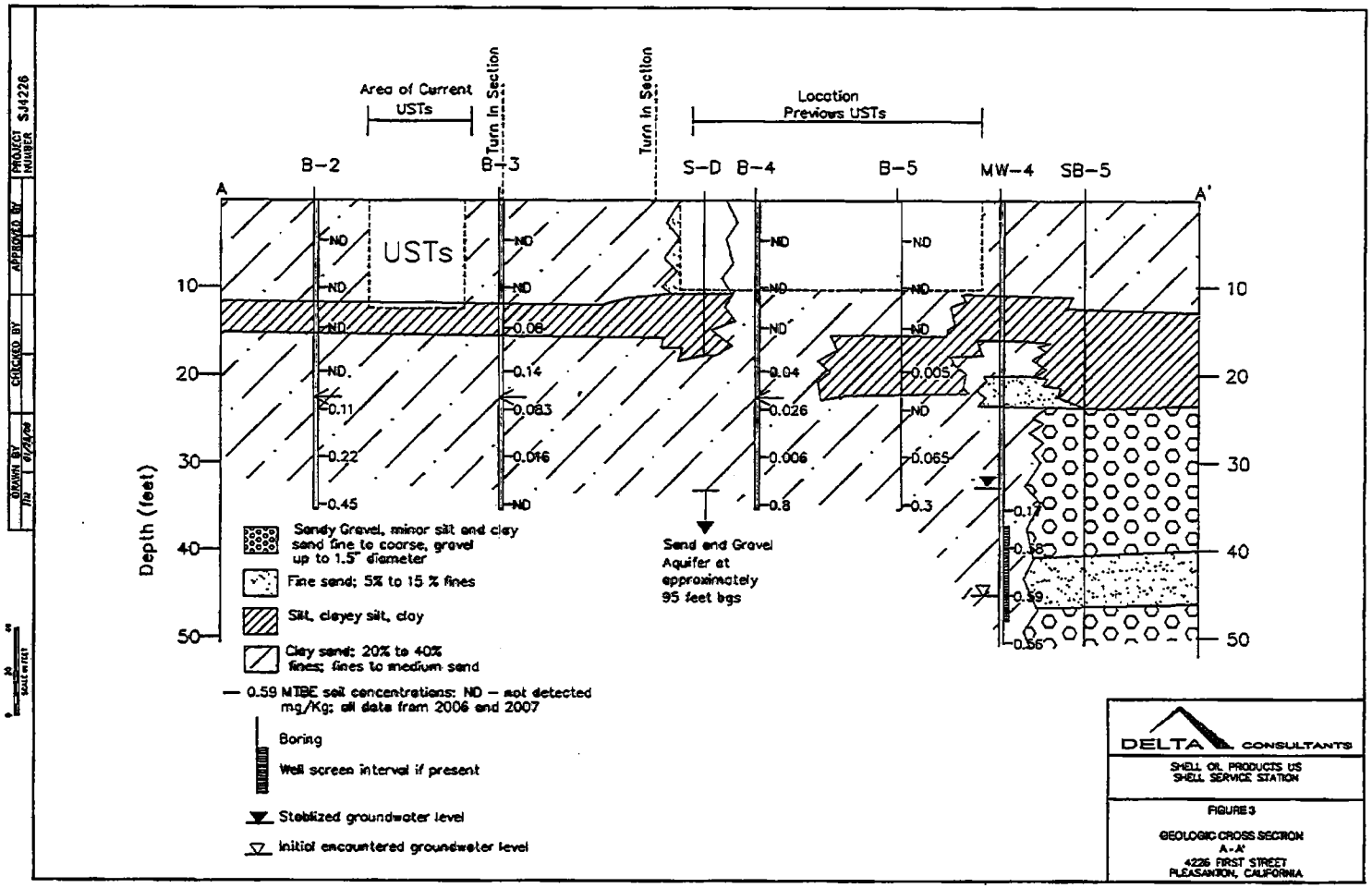
SITE MAP

SHELL-BRANDED SERVICE STATION
4226 First Street
Pleasanton, California

PROJECT NO. SJ422-6F1-X	DRAWN BY AD 6/15/07
FILE NO. SJ422-6F1-X	PREPARED BY AD
REVISION NO. 1	REVIEWED BY

DELTA

BaseMap from: Cambria Environmental Technology, Inc. and Toxichem Management Systems, Inc.


PROJECT NUMBER SJ4226
APPROVED BY
CHECKED BY
DRAWN BY
Area of Current USTs
Turn In Section
Turn In Section
Location Previous USTs
B-2
B-3
S-D
B-4
B-5
MW-4
SB-5
A
A'
USTs
Depth (feet)
10
20
30
40
50
ND
0.08
0.14
0.083
0.046
0.11
0.22
0.45
0.04
0.026
0.006
0.8
0.005
0.065
0.3
0.12
0.18
0.59
0.56
Sandy Gravel, minor silt and clay sand fine to coarse, gravel up to 1.5" diameter
Fine sand; 5% to 15 % fines
Silt, clayey silt, clay
Clay sand: 20% to 40% fines; fines to medium sand
Sand and Gravel Aquifer at approximately 95 feet bgs
0.59 MTBE soil concentrations: ND = not detected mg/Kg; all data from 2006 and 2007
Boring
Well screen interval if present
Stabilized groundwater level
Initial encountered groundwater level
DELTA CONSULTANTS
SHELL OIL PRODUCTS US
SHELL SERVICE STATION
FIGURE 3
GEOLOGIC CROSS SECTION
A-A'
4226 FIRST STREET
PLEASANTON, CALIFORNIA

ATTACHMENT B

BORING LOGS

Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	MW-1
JOB/SITE NAME	pie-4226	DRILLING STARTED	08-Apr-99
LOCATION	4226 First Street, Pleasanton, California	DRILLING COMPLETED	09-Apr-99
PROJECT NUMBER	241-0395	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	371.83 ft
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	371.20 ft
BORING DIAMETER	8"	SCREENED INTERVAL	37.5 to 57.5 ft bgs
LOGGED BY	B. Jakub	DEPTH TO WATER (First Encountered)	42.5 ft (08-Apr-99)
REVIEWED BY	B. Jakub	DEPTH TO WATER (Static)	NA

REMARKS: Hand augered to 5' bgs; located near NW planter/entrance to Shell station on Vineyard and W of SB-7.

TPHg (mg/kg)	BLOW COUNTS	RECOVERY	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
								ASPHALT.	0.3
								FILL.	1.5
						ML		Sandy SILT: (ML); brown (10YR4/3); very soft; wet; 5% clay, 70% silt, 25% fine to medium grained sand; low plasticity; moderate to low estimated permeability.	4.5
					5	ML		SILT: (ML); dark yellow brown (10YR4/6); stiff; moist; 5% clay, 85% silt, 8% sand, 2% fine grained gravel; low plasticity; low estimated permeability.	9.7
					10	ML		Clayey SILT: (ML); yellow brown (10YR5/8); stiff; damp; 38% clay, 50% silt, 2% fine grained sand, 10% fine to coarse subangular gravel; high plasticity; low estimated permeability.	15.0
<1.0	18 26 30		SB-6 -15.5		15	SP		Clayey Gravelly SAND: (SP); dark greenish gray (5GY4/1); dense; damp; 20% clay, 50% sand, 30% gravel; medium plasticity; low to moderate estimated permeability; wood fragments.	19.3
<1.0	13 11 20		SB-6 - 19.5		20	ML		Sandy SILT with Clay: (ML); olive (5Y4/3); very stiff; damp; 15% clay, 50% silt, 35% very fine grained sand; low plasticity; moderate to low estimated permeability.	24.5
<1.0	20 28 30		SB-6 - 25.0		25	SP		Gravelly SAND with Silt: (SP); olive (5Y4/3); dense; damp; 5% clay, 15% silt, 60% fine to medium grained sand, 20% gravel; no plasticity; high to moderate estimated permeability.	29.0
<1.0	40 43 48		SB-6 - 30.0		30	GP		Sandy GRAVEL: (GP); olive (5Y4/3); very dense; damp; 2% clay, 13% silt, 35% medium grained sand (red grains), 50% fine to coarse, subangular to subrounded gravel (chert); no plasticity; high estimated permeability.	34.0
	20 35				35			Clayey Gravelly SAND: (SP); dark yellow brown	

WELL DIAGRAM: Portland Type I/II; 2" diam., Schedule 40 PVC; Bentonite Seal

WELL LOG (TPH-G) G:\PLE4226\GINT\PLE4226.GPJ DEFAULT.GDT 8/11/99

Continued Next Page

Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	MW-1
JOB/SITE NAME	ple-4226	DRILLING STARTED	06-Apr-99
LOCATION	4226 First Street, Pleasanton, California	DRILLING COMPLETED	09-Apr-99

Continued from Previous Page

TPHg (mg/kg)	BLOW COUNTS	RECOVERY	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
<1.0	50		SB-6 - 35.0					(10YR4/6); very dense; damp; 20% clay, 10% silt, 40% medium grained sand, 30% fine to coarse grained gravel (sandstone/claystone, serpentinite, some MnO_x/Fe staining); low plasticity; moderate to low estimated permeability.		Monterey Sand #3
	20									
	45									
<1.0	50/4		SB-6 - 40.0		40	SP				
	28									
	45							@ 44' - moist to wet.		
	45				45					
	32									2"-diam., 0.020" Slotted Schedule 40 PVC
	50/6				50				50.0	
						GC		Clayey GRAVEL with Silt; (GC); dark yellow brown (10YR4/6); very dense; moist to wet; 25% clay, 15% silt, 20% fine to coarse grained sand, 40% fine to coarse grained gravel.		
	15				55				55.2	
	40					MH		Clayey SILT; (MH); light olive brown (2.5Y5/4); hard; damp; 25% clay, 75% silt; medium to high plasticity; very low estimated permeability; black MnO_2 blebs throughout.		
	50								58.0	Bottom of Boring @ 58 ft

WELL LOG (TPH-G) G:\PLE4226\GINTPLE4226.GPJ DEFAULT.GDT 8/11/99

Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	SB-7
JOB/SITE NAME	ple-4226	DRILLING STARTED	07-Apr-99
LOCATION	4226 First Street, Pleasanton, California	DRILLING COMPLETED	07-Apr-99
PROJECT NUMBER	241-0395	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	8"	SCREENED INTERVAL	NA
LOGGED BY	B. Jakub	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	B. Jakub	DEPTH TO WATER (Static)	42.50ft (08-Apr-99)

REMARKS: Hand augered to 4' bgs; located E side of Vineyard exit near planter.

TPHg (mg/kg)	BLOW COUNTS	RECOVERY	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
								ASPHALT.	0.3
								FILL.	1.5
						ML		Sandy SILT; (ML); brown (10YR4/3); very soft; wet; 5% clay, 70% silt, 25% fine to medium grained sand; low plasticity; moderate to low estimated permeability.	4.5
	11 12 19				5	ML		SILT; (ML); dark yellow brown (10YR4/6); stiff; moist; 5% clay, 85% silt, 8% sand, 2% fine grained gravel; low plasticity; low estimated permeability.	
	15 25 31				10	ML		Clayey SILT; (ML); yellow brown (10YR5/8); stiff; damp; 38% clay, 50% silt, 2% fine grained sand, 10% fine to coarse subangular gravel; high plasticity; low estimated permeability.	9.7
<1.0	16 20 35		SB-7 -15.0		15	ML		@ 14.3 - olive brown (2.5Y4/4) mottled with olive; 20% clay, 78% silt, 2% fine grained gravel; medium plasticity; low estimated permeability.	
<1.0	11 22 25		SB-7 - 19.5		20	SP		Gravelly SAND with Silt; (SP); olive gray (5Y4/2); dense; damp; 3% clay, 15% silt, 62% fine to coarse grained sand, 20% fine to coarse grained gravel; no plasticity; high estimated permeability.	19.5 20.3
						GP		Clayey Sandy GRAVEL; (GP); yellow brown (10YR5/6); 20% clay, 20% fine to coarse grained sand, 60% fine to coarse grained gravel (quartz, possibly chert); low to medium plasticity; low to moderate estimated permeability.	24.3
<1.0	20 20 26		SB-7 - 24.5		25	SP		Gravelly SAND with Silt; (SP); yellow brown (10YR5/6); dense; damp; 3% clay, 15% silt, 52% medium grained sand, 25% fine grained gravel; no plasticity; high estimated permeability.	25.3
						ML		Clayey SILT; (ML); stiff; damp; 30% clay, 60% silt, 10% fine grained sand; high plasticity; low estimated permeability; trace carbon.	29.0
<1.0	35 38 40		SB-7 - 29.3		30	GP		Sandy GRAVEL with Clay; (GP); dark olive gray (5Y3/2); 15% clay, 5% silt, 35% fine to coarse grained sand, 45% fine to coarse grained gravel (quartz); low plasticity; moderate to high estimated permeability.	
	19 20				35			Clayey GRAVEL with Silt; (GC); yellow brown	34.0

WELL DIAGRAM

Continued Next Page

WELL LOG (TPH-G) G:\PLE4226\GINTPLE4226.GPJ DEFAULT.GDT 8/11/99

Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	SB-7
JOB/SITE NAME	ple-4226	DRILLING STARTED	07-Apr-99
LOCATION	4226 First Street, Pleasanton, California	DRILLING COMPLETED	07-Apr-99

Continued from Previous Page

TPHg (mg/kg)	BLOW COUNTS	RECOVERY	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
	50		SB-7 - 34.3					(10YR5/8); very dense; damp; 35% clay, 15% silt, 10% sand, 40% fine to coarse grained gravel (quartz); medium plasticity; moderate to low estimated permeability.		
	25 45 53							@ 39' - quartz, siltstone, chert gravels.		
<1.0			SB-7 - 40.0		40	GC				
								@ 44' - moist to wet.		
83	25 40 50/3		SB-7 - 44.5		45					
	20 30 50								49.0	
<1.0			SB-7 -49.5		50			Clayey GRAVEL; (GC); yellow brown (10YR5/4); very dense; moist to wet; 20% clay, 10% silt, 10% medium to coarse grained sand, 60% fine grained gravel; medium plasticity; low to moderate estimated permeability.		Portland Type I/II
<1.0	30 50/3		SB-7 - 54.3		55	GC				
	20 30 50/3								59.0	
<1.0			SB-7 - 59.5		60			Clayey SILT; (MH); mottled yellow brown (10YR4/8) and light brownish gray (2.5Y6/2); hard; dry; 20% clay, 70% silt, 10% very fine to fine grained sand; medium plasticity; low estimated permeability.		
	25 35 50/3					MH		@ 64' - dark brown MnO_2 or organic blebs throughout.		
<1.0			SB-7 - 64.5		65					
	17 32 50/4								69.0	
			SB-7 - 69.5		70			Clayey SILT; (MH); light olive brown (2.5Y5/4); hard; dry; 25% clay, 75% silt; medium plasticity; very low estimated permeability.		
	20 40							@ 74' - increasing mottled with yellow brown (10YR5/8)..	74.5	
					75					

Continued Next Page

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Oakland, CA 94608
Telephone: (510) 420-0700
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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	SB-7
JOB/SITE NAME	ple-4226	DRILLING STARTED	07-Apr-99
LOCATION	4226 First Street, Pleasanton, California	DRILLING COMPLETED	07-Apr-99

Continued from Previous Page

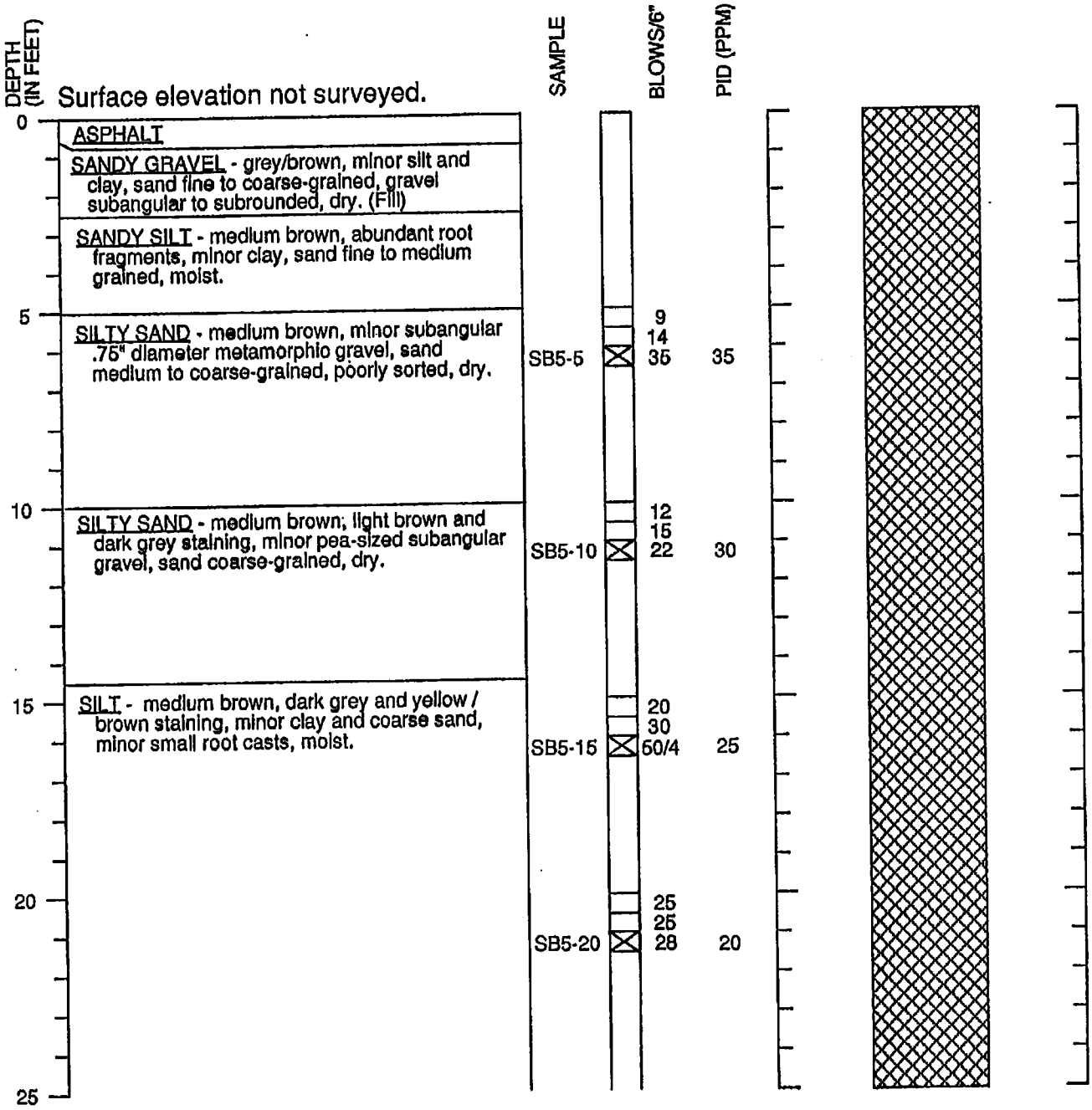
TPHg (mg/kg)	BLOW COUNTS	RECOVERY	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
	50/4		SB-7 -74.5					@ 74' to 74.5' - black blebs, possibly MnO_2.		
	15 30 50/2		SB-7 -79.5		80					
	15 25 50		SB-7 -85.0		85	MH		@ 84' - dark yellow brown (10YR4/6); damp; 30% clay, 70% silt.		
	18 48 50				90					
	25 38 50		SB-7 -94.5		95			@ 94' - MnO_2 blebs throughout; becomes siltier.		
	26 50/3		SB-7 -100.0		100	SC		Clayey SAND with Gravel: (SC); dark yellow brown (10YR4/6); dense; damp; 30% clay, 5% silt, 50% fine to coarse grained sand, 15% fine grained gravel (quartz); medium plasticity; low to moderate estimated permeability.	99.0 100.0	Bottom of Boring @ 100 ft

Ground water sample (SB-7-GW) collected.

WELL LOG (TPH-G) G:\PLE4226\GINT\PLE4226.GPJ DEFAULT.GDT 9/11/99

Boring Log SB-5

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Perched water encountered at 49.5 feet BGS.

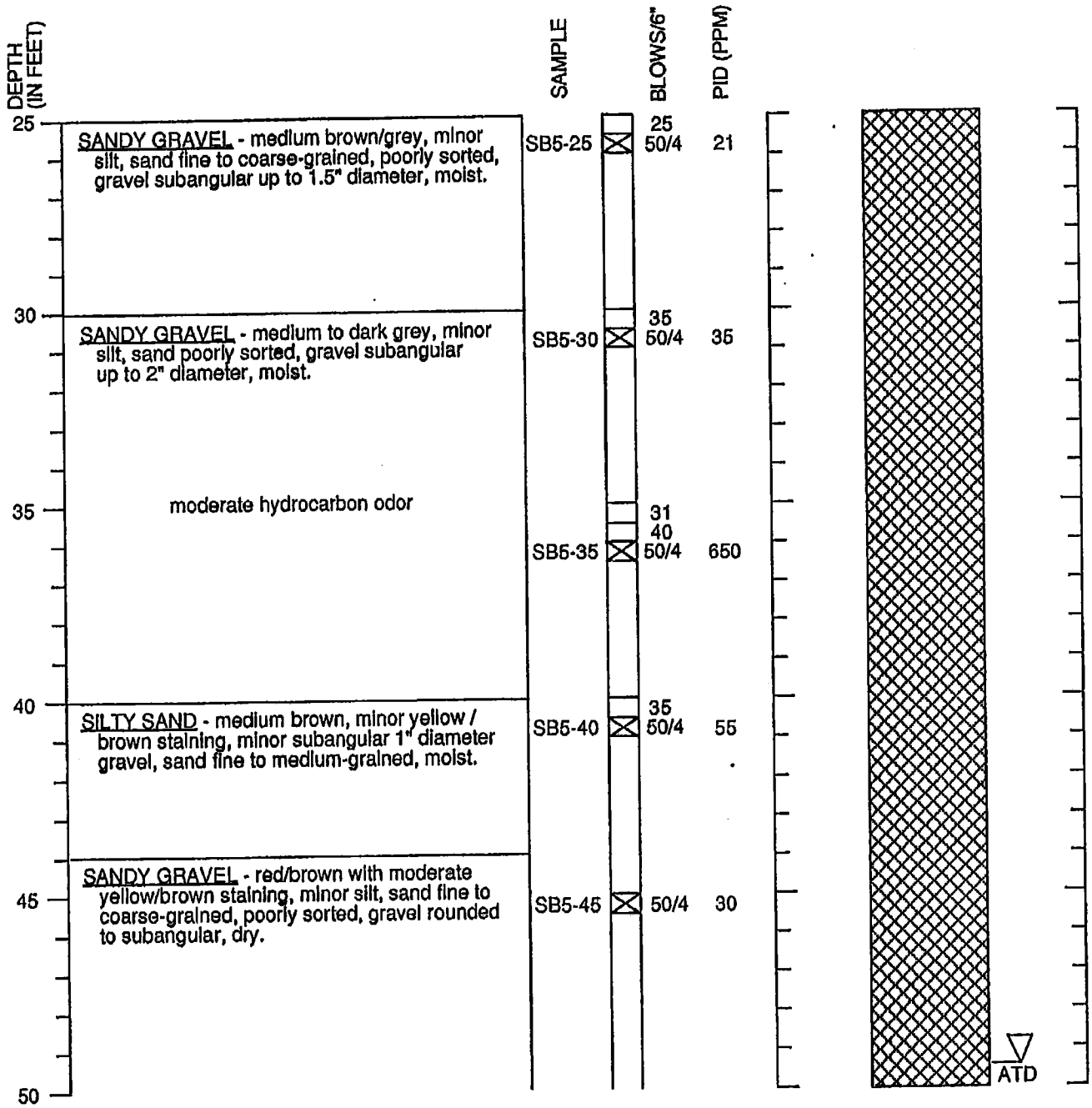
HARTCROWSER

J-6006 *12/90*

Figure A-3

Boring Log SB- 5

Geologic Log



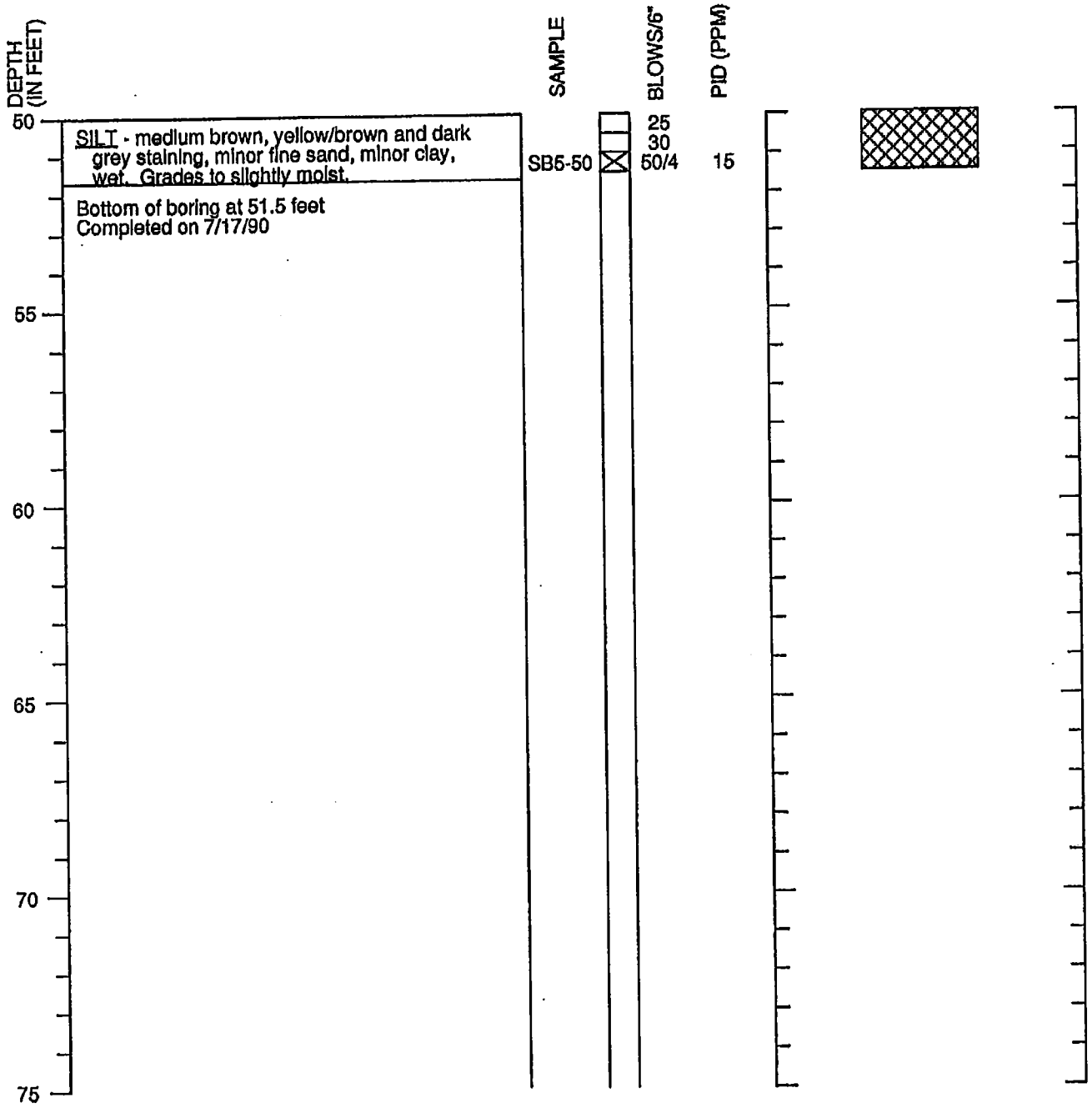
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Perched water encountered at 49.5 feet BGS

HARTCROWSER

J-6006 12/90
Figure A-3
Page 2 of 3

Boring Log SB-5

Geologic Log



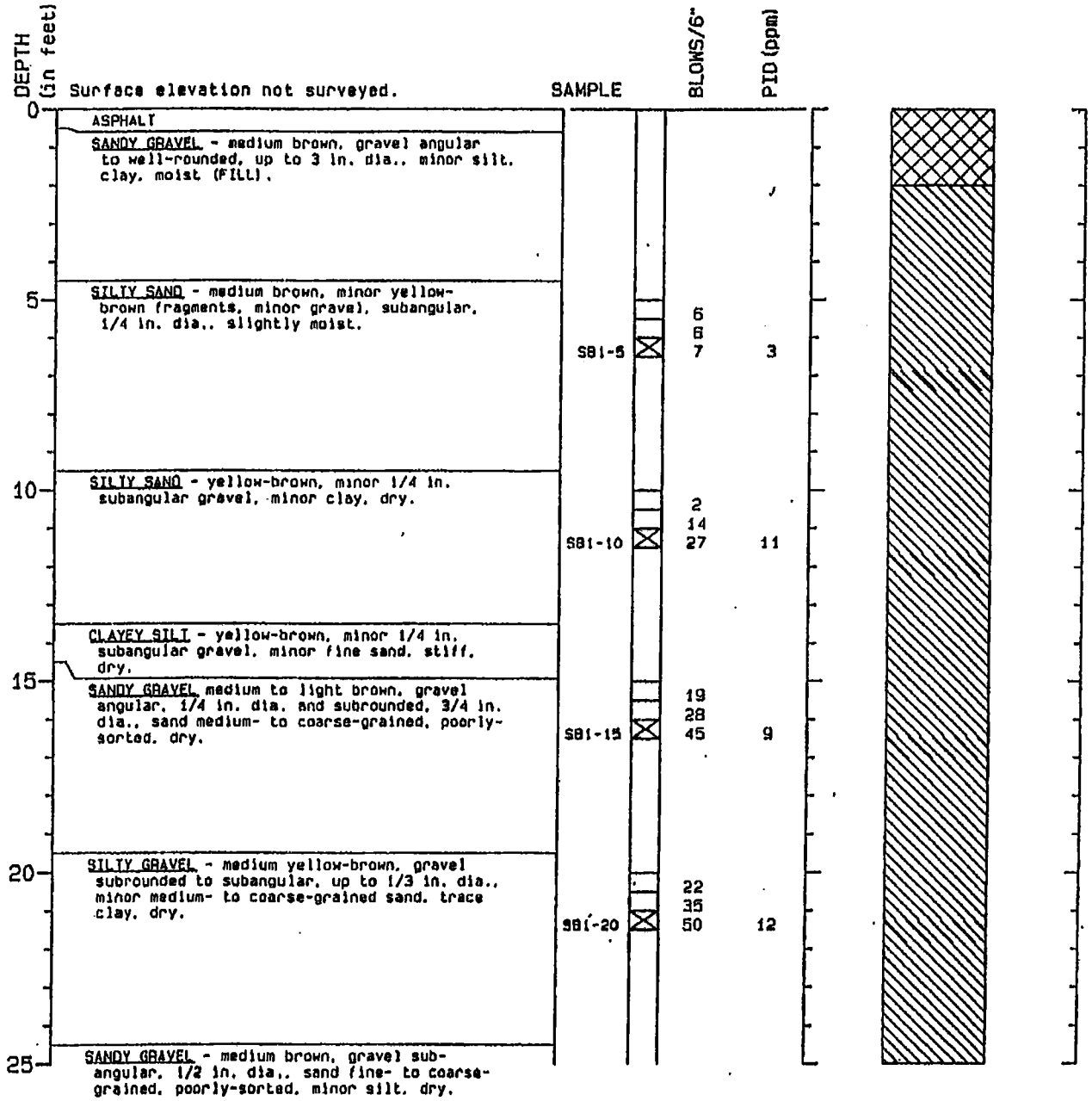
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Perched water encountered at 49.5 feet.

HARTCROWSER

J-6006 12/90
Figure A-3
Page 3 of 3

Boring Log SB-1

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.

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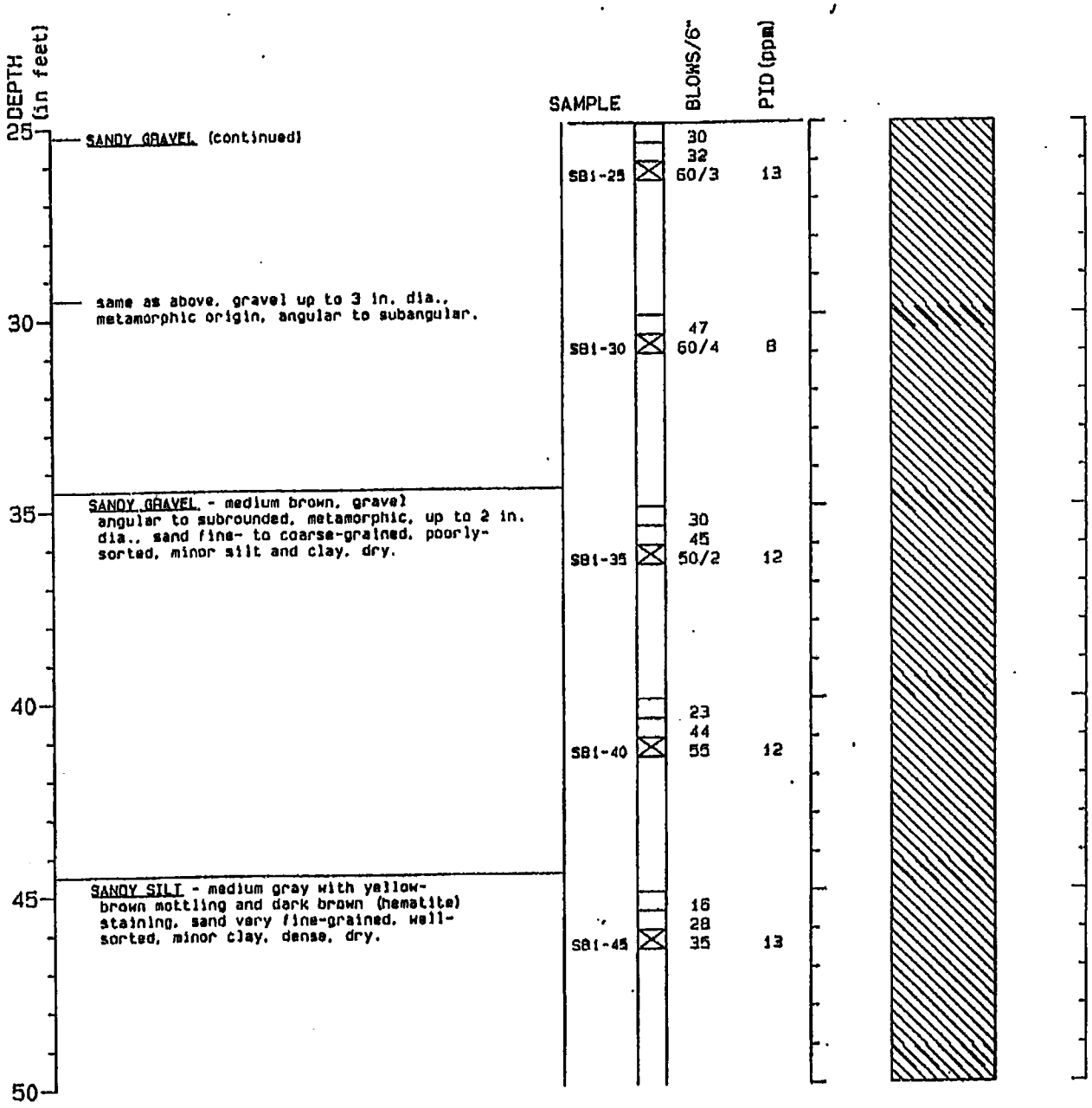
J-6006 4/90

Figure A-2

Boring Log SB-1

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.

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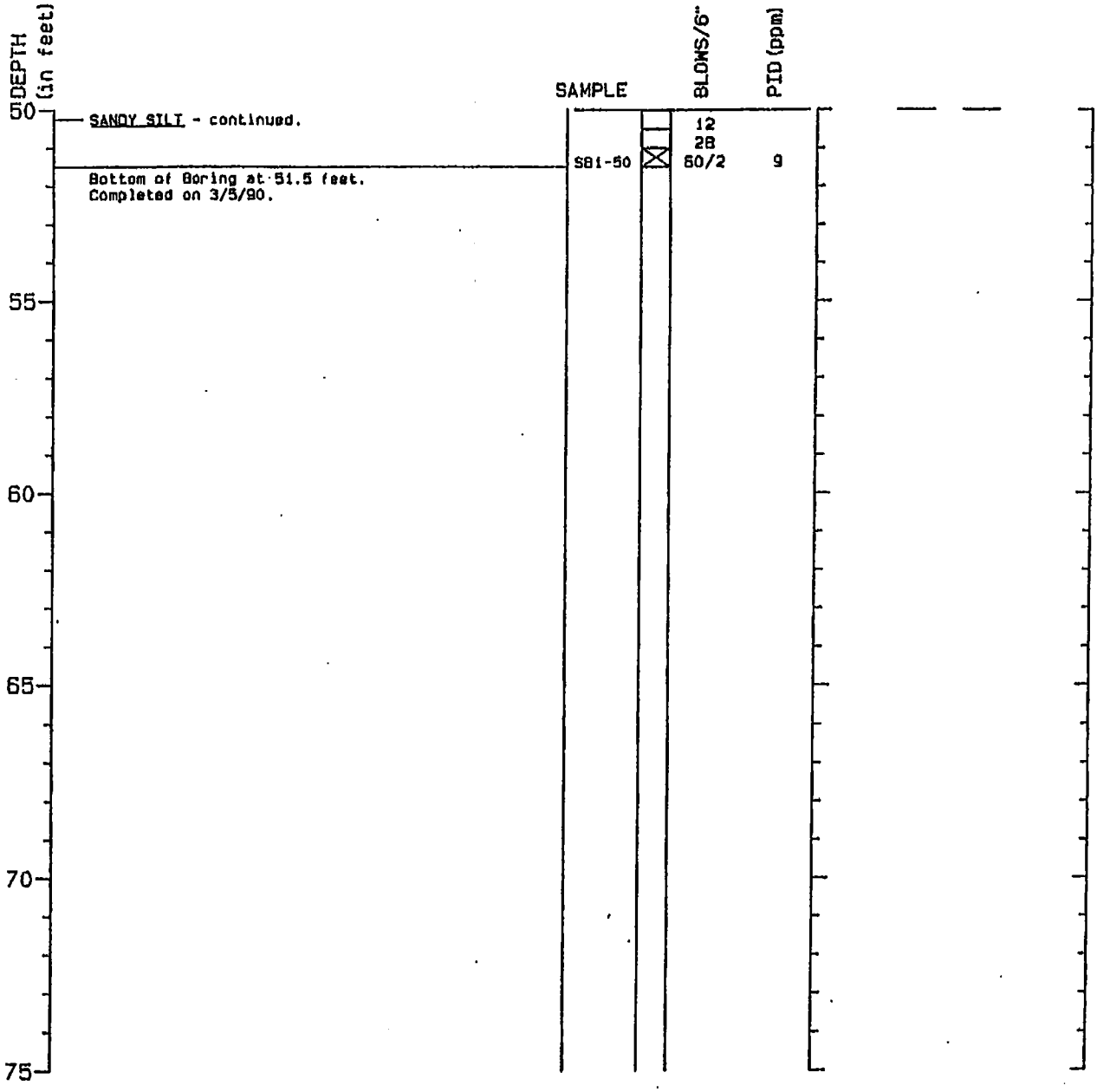
J-6006 4/90

Figure A-2

Boring Log SB-1

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.

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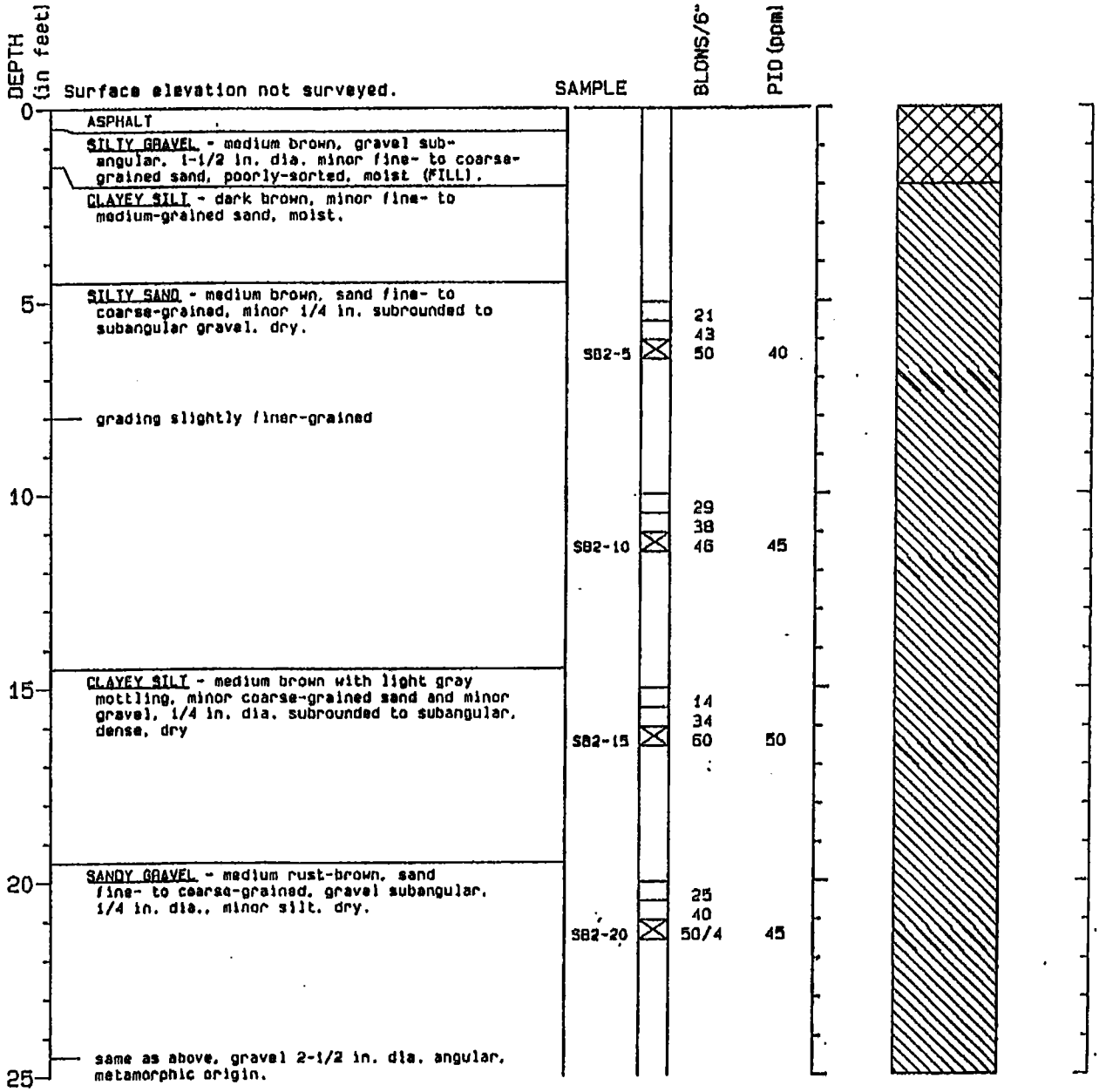
Figure A-2

Boring Log SB-2

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.

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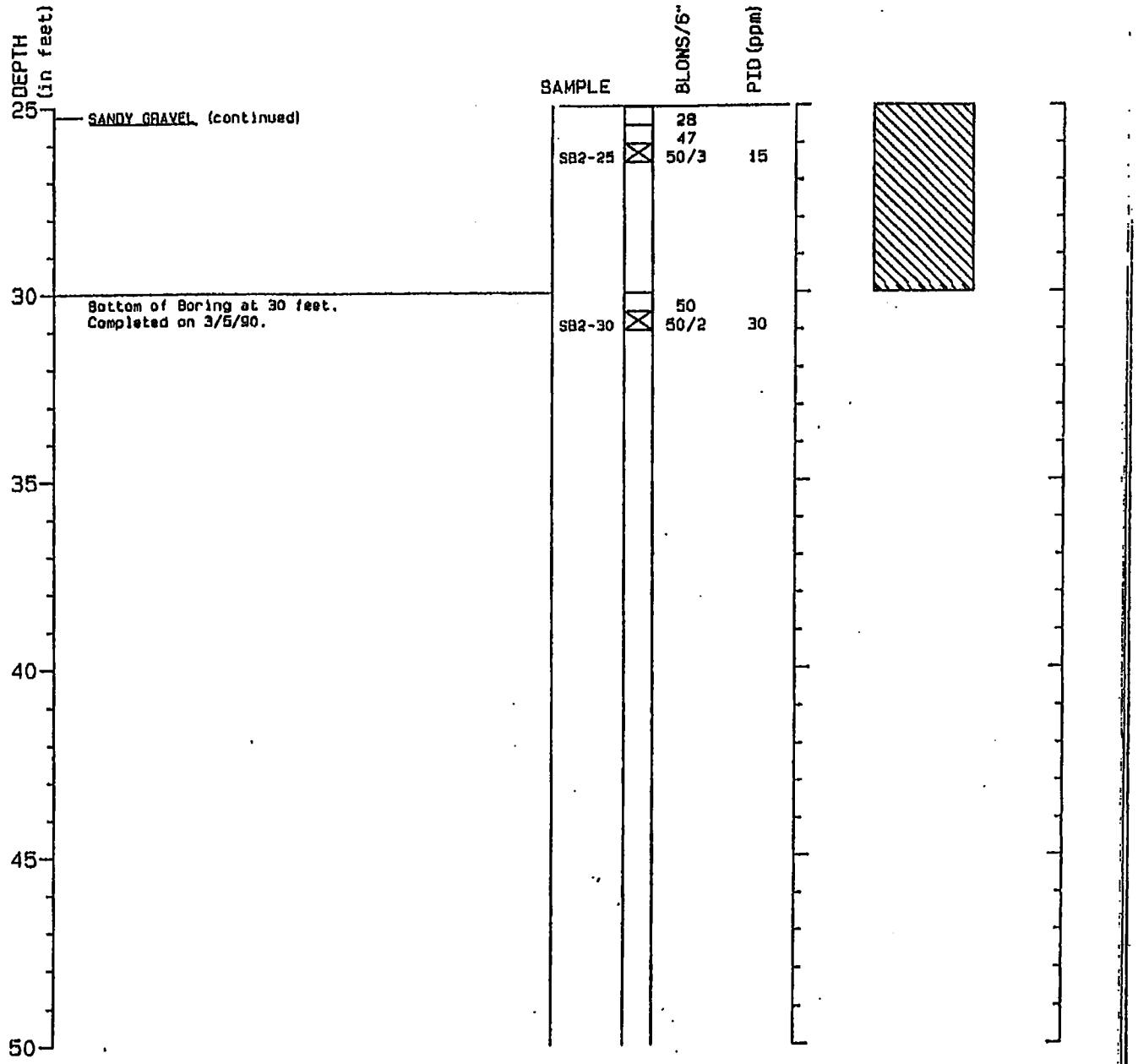
J-6006 3/90

Figure A-3

Boring Log SB-2

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.

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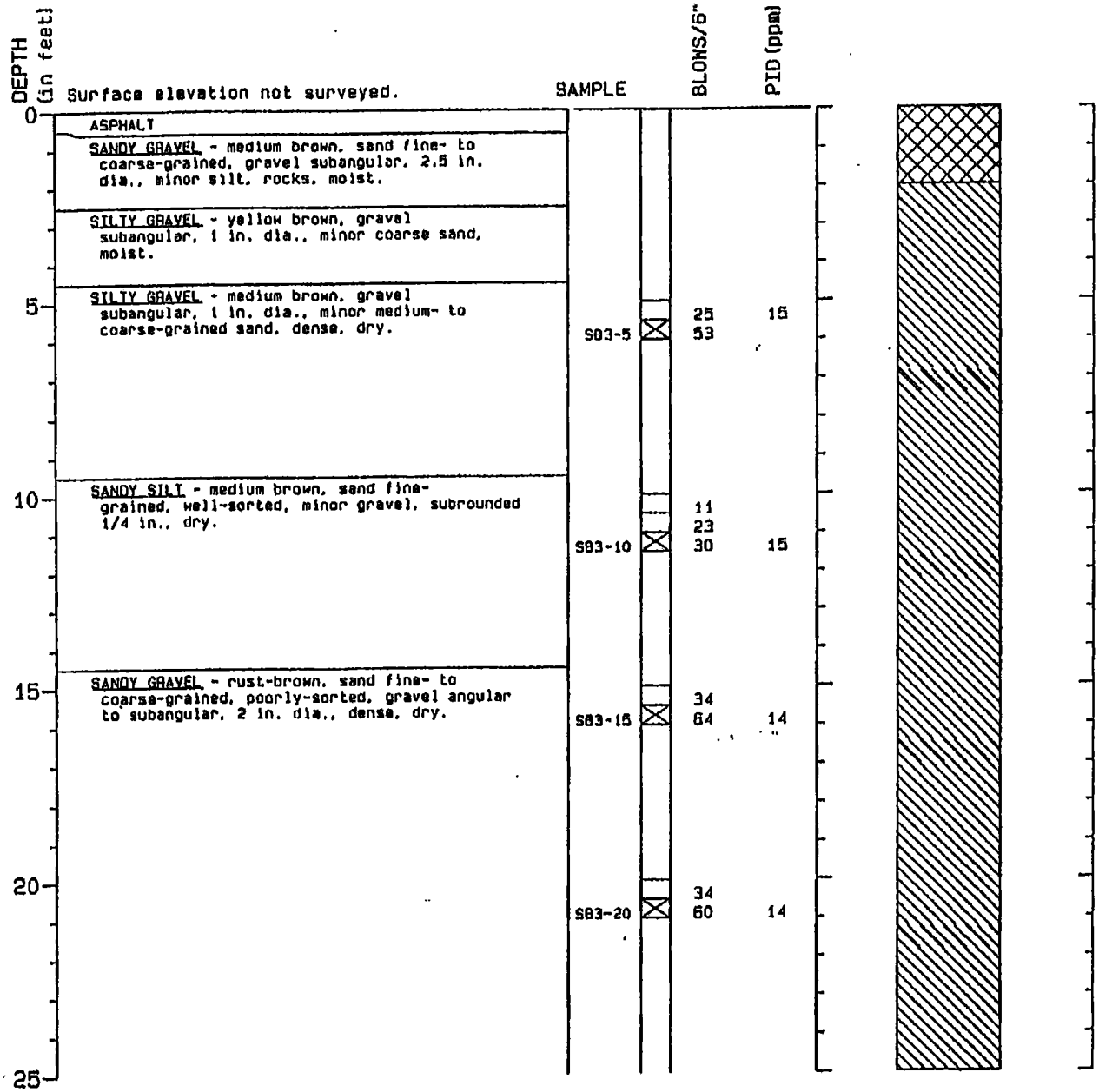
J-6006 3/90

Figure A-3

Boring Log SB-3

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.

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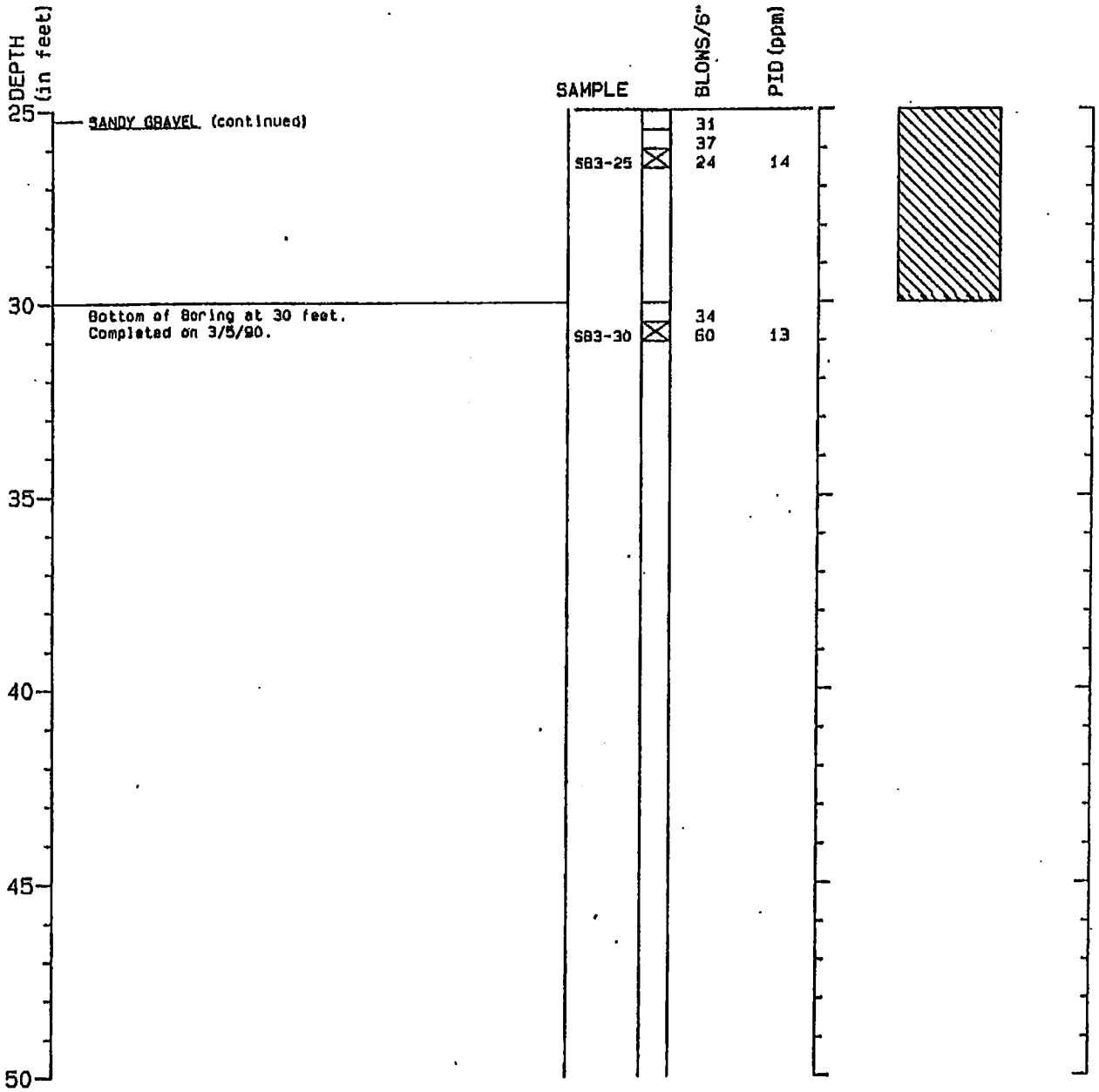
Figure A-4

Boring Log SB-3

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.

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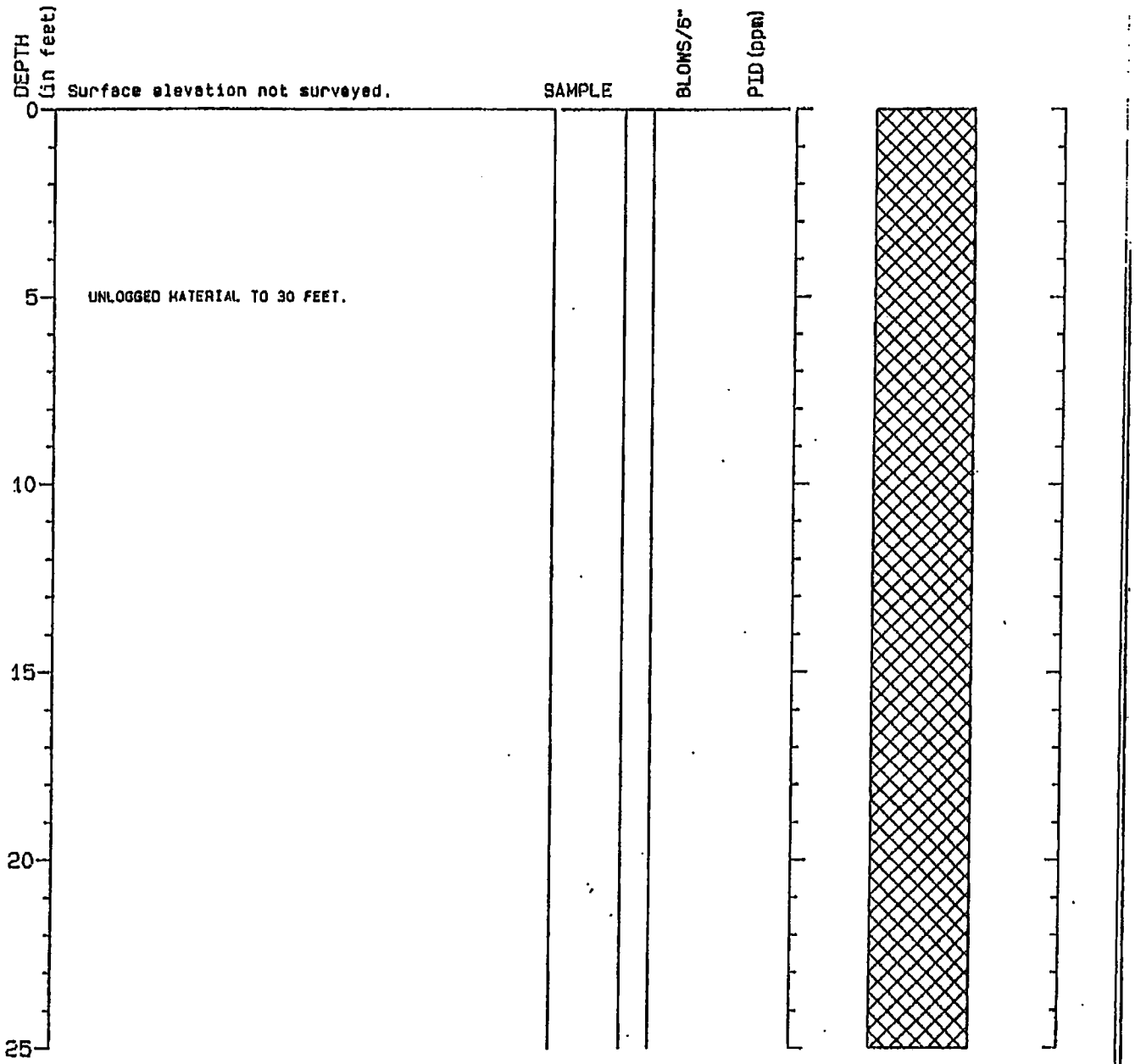
J-6006 3/90

Figure A-4

Boring Log WA-1

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.

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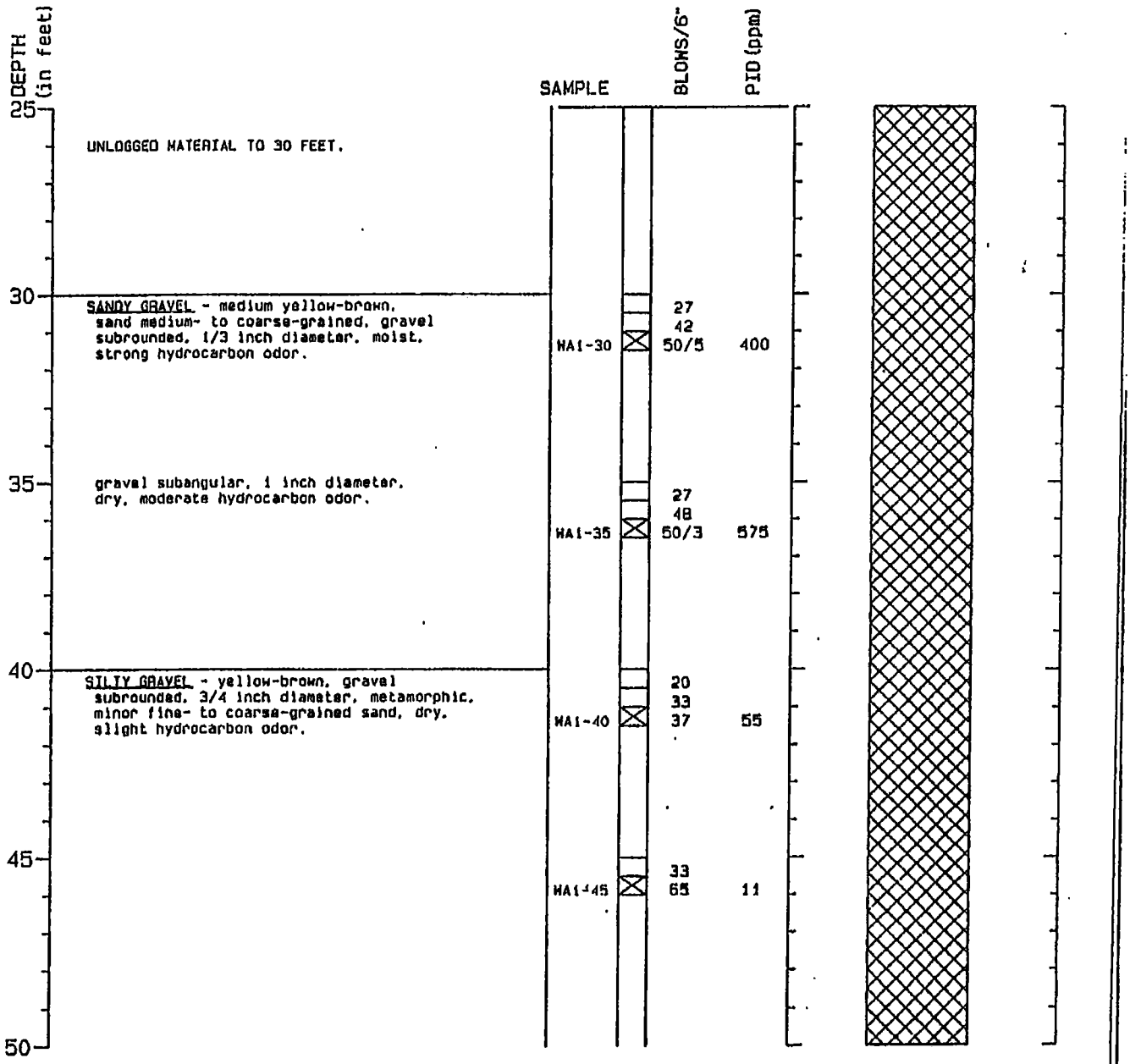
J-6006 4/90

Figure A-5

Boring Log WA-1

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.

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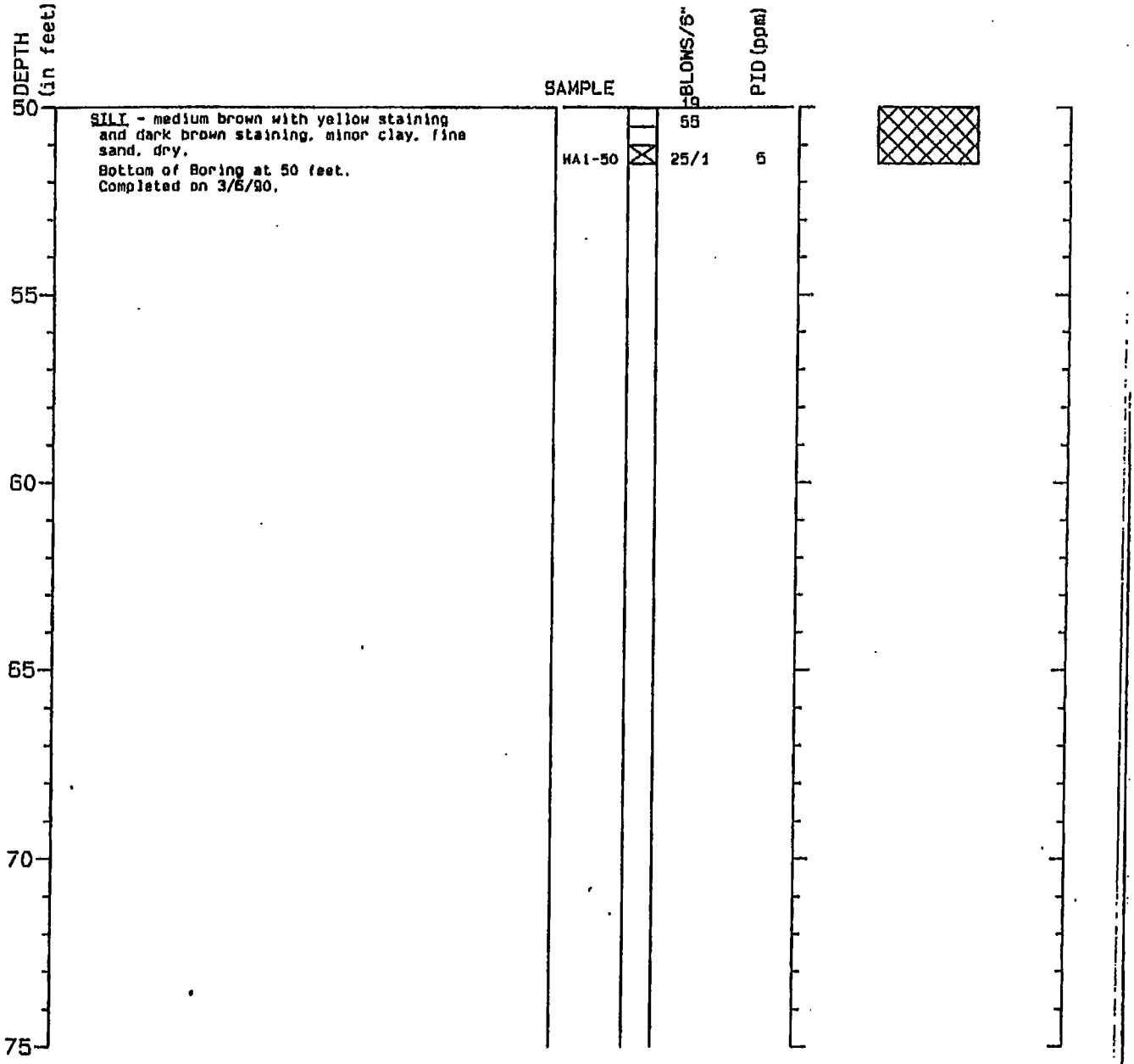
J-6006 4/90

Figure A-5

Boring Log WA-1

Geologic Log



1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Soil description and stratum lines are interpretive and actual changes may be gradual.
3. No free water encountered.

HARTCROWSER

J-6006 4/90

Figure A-5

Delta
Environmental Consultants, Inc.

Project No:	SJ42-26F-1	Client:	Shell Oil Products US	Well No: MW-1B
Logged By:	AP	Location:	4226 First Street	Page 1 of 6
Driller:	Gregg	Date Drilled:	8/23/2006	
Drilling Method:	HSA/AK (7')	Hole Diameter:	12"	
Sampling Method:	SS	Hole Depth:	108'	
Casing Type:	sch 40 PVC	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	108'	
Gravel Pack:	#2/12 sand	Casing Stickup:	-	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout				air knifed & hand augered	1			AF	~4" asphalt, ~8" baserock
					2				See Cambria's MW-1 boring log (attached) for soil lithology between 1 and 58.5 feet bg
					3				
					4				
					5				
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				

Delta
Environmental Consultants, Inc.

Project No:	SJ42-26F-1	Client:	Shell Oil Products US	Well No: MW-1B
Logged By:	AP	Location:	4226 First Street	Page 2 of 6
Driller:	Gregg	Date Drilled:	8/23/2006	
Drilling Method:	HSA/AK (7')	Hole Diameter:	12"	
Sampling Method:	SS	Hole Depth:	108'	
Casing Type:	sch 40 PVC	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	108'	
Gravel Pack:	#2/12 sand	Casing Stickup:	-	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout						21				
						22				
						23				
						24				
						25				
						26				
						27				
						28				
						29				
						30				
						31				
						32				
						33				
						34				
						35				
						36				
						37				
						38				
						39				
						40				

Delta
Environmental Consultants, Inc.

Project No:	SJ42-26F-1	Client:	Shell Oil Products US	Well No: MW-1B
Logged By:	AP	Location:	4226 First Street	Page 3 of 6
Driller:	Gregg	Date Drilled:	8/23/2006	
Drilling Method:	HSA/AK (7')	Hole Diameter:	12"	
Sampling Method:	SS	Hole Depth:	108'	
Casing Type:	sch 40 PVC	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	108'	
Gravel Pack:	#2/12 sand	Casing Stickup:	-	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Cement					41				
					42				
					43				
					44				
					45				
					46				
					47				
					48				
					49				
					50				
					51				
					52				
					53				
					54				
					55				
					56				
					57				
					58				
		dry	8.1	14	59			ML	**SILT**: mottled yellow brown and orangish brown, hard,
				16					80-90% fines, <10% fine to very fine grained sands,
				21	60				low plasticity

Delta
Environmental Consultants, Inc.

Project No:	SJ42-26F-1	Client:	Shell Oil Products US	Well No: MW-1B
Logged By:	AP	Location:	4226 First Street	Page 4 of 6
Driller:	Gregg	Date Drilled:	8/23/2006	
Drilling Method:	HSA/AK (7')	Hole Diameter:	12"	
Sampling Method:	SS	Hole Depth:	108'	
Casing Type:	sch 40 PVC	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	108'	
Gravel Pack:	#2/12 sand	Casing Stickup:	-	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery / Interval	Soil Type	LITHOLOGY / DESCRIPTION
							ML	SILT (cont.)
					61			
					62			
					63			
		dry	11.5	10 12 14	64			
					65			
					66			
					67			
					68			
		dry	10.9	11 16 18	69			
					70			
					71			
					72			
					73			
		dry	9.9	11 13 17	74			
					75			
					76			
					77			
					78			
		dry	9.1	11 13 16	79			(80-90% fines, <10% very fine grained sands, medium plasticity)
					80			

Delta
Environmental Consultants, Inc.

Project No:	SJ42-26F-1	Client:	Shell Oil Products US	Well No: MW-1B
Logged By:	AP	Location:	4226 First Street	Page 5 of 6
Driller:	Gregg	Date Drilled:	8/23/2006	Location Map: Please see site map
Drilling Method:	HSA/AK (7')	Hole Diameter:	12"	
Sampling Method:	SS	Hole Depth:	108'	
Casing Type:	sch 40 PVC	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	108'	
Gravel Pack:	#2/12 sand	Casing Stickup:	-	
Elevation		Northing		Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery / Interval	Soil Type	LITHOLOGY / DESCRIPTION
Bentonite / Sand					81		ML	SILT (cont.)
					82			
					83			
		dry	9.2	10 14 18	84 85		ML	**SILT with Sand:** mottled yellow brown and orange brown, hard, 70-80% fines, 20-30% very fine to fine grained sands, low to no plasticity
					86			
					87			
					88			
		moist	9.9	10 16 21	89 90			(15-25% very fine grained sands)
					91			
					92			
					93			
		dry	11.9	13 16 20	94 95			(20-30% very fine grained sands)
					96			
					97			
					98			
		wet	8.1	11 16 20	99 100		SC	**Clayey SAND with Gravel:** brown, dense, 10-20% fines, 20-30% gravels up to 1" diameter, 60-70% medium to coarse grained sands (mostly coarse grained)

Delta
Environmental Consultants, Inc.

Project No:	SJ42-26F-1	Client:	Shell Oil Products US	Well No: MW-1B	
Logged By:	AP	Location:	4226 First Street	Page 6 of 6	
Driller:	Gregg	Date Drilled:	8/23/2006	Location Map	
Drilling Method:	HSA/AK (7')	Hole Diameter:	12"	Please see site map	
Sampling Method:	SS	Hole Depth:	108'		
Casing Type:	sch 40 PVC	Well Diameter:	4"		
Slot Size:	0.01	Well Depth:	108'		
Gravel Pack:	#2/12 sand	Casing Stickup:	-		
Elevation		Northing		Easting	

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Sand					101			SC	**Clayey SAND with Gravel** (cont.)
					102				
					103				
				13	104				(30-40% fines, 40-60% fine to coarse grained sands,
		wet	0.7	17					10-20% gravels up to 1" diameter)
				19	105				
					106				
				13	107				(25-35% fines, 55-65% sand, 10-20% gravels up to
		wet	0.8	17					2" diameter)
				20	108				Bottom of boring at 108 feet bg
					109				
					110				
					111				
					112				
					113				
					114				
					115				
					116				
					117				
					118				
					119				
					120				

Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	MW-2
JOB/SITE NAME	Shell-branded service station	DRILLING STARTED	18-Jan-00
LOCATION	4226 First Street, Pleasanton, California	DRILLING COMPLETED	19-Jan-00
PROJECT NUMBER	241-0395	WELL DEVELOPMENT DATE (YIELD)	03-Feb-00
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	372.65 ft above msl
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	372.40 ft above msl
BORING DIAMETER	8"	SCREENED INTERVAL	26 to 46 ft bgs
LOGGED BY	B. Jakub	DEPTH TO WATER (First Encountered)	33.0 ft (18-Jan-00) ▽
REVIEWED BY	S. Bork, RG# 5620	DEPTH TO WATER (Static)	NA ▼
REMARKS	Hand augered to 5' bgs.		

TPHg (ppm)	BLOW COUNTS	SAMPLE ID	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
				ASPHALT.	0.5
			ML	Sandy SILT; (ML); dark brown; soft; damp; 3% clay, 80% silt, 15% fine grained sand, 2% gravel; low plasticity; low to moderate estimated permeability; palm tree roots.	4.0
			SM	Silty SAND; (SM); yellow brown; soft; damp; 2% clay, 43% silt, 50% sand, 5% gravel; low plasticity; moderate estimated permeability.	5.8
			MH	Clayey SILT; (MH); yellow brown; stiff; damp; 38% clay, 50% silt, 2% fine grained sand, 10% fine to coarse, subangular gravel; high plasticity; low estimated permeability.	6.6
<1.0		MW-2-6.3'	SM	Silty SAND; (SM); yellow brown; dense; damp; 2% clay, 40% silt, 50% sand, 8% gravel; no plasticity; high estimated permeability.	10.0
			SM	Clayey Silty SAND; (SM); yellow brown; stiff; damp; 15% clay, 30% silt, 50% sand, 5% gravel; low plasticity; moderate estimated permeability.	11.0
			SM	Silty SAND; (SM); yellow brown; dense; damp; 2% clay, 40% silt, 50% sand, 8% gravel; no plasticity; high estimated permeability. @ 12.8' - 10% clay, 38% silt, 50% sand, 8% gravel; moderate estimated permeability.	15.0
			ML	Clayey SILT; (ML); yellowish brown; stiff; damp; 15% clay, 80% silt, 3% sand, 2% gravel; medium plasticity; low estimated permeability.	16.5
<1.0		MW-2-16.5'	SM	Gravelly Silty SAND; (SM); yellow brown; damp; 5% clay, 25% silt, 45% fine to coarse grained sand, 25% gravel to 3/4"; high estimated permeability.	18.2
			SM	Clayey Silty SAND; (SM); yellow brown; damp; 15% clay, 25% silt, 50% sand, 10% fine gravel.	22.0
<1.0		MW-2-21.5'	GM	Sandy Silty GRAVEL; (GM); yellow brown; damp; 10% clay, 30% silt, 20% sand, 40% fine to coarse gravel; chert to 2".	26.0
<1.0		MW-2-26.0'	SM	Gravelly Silty SAND; (SM); very dense; damp; 5% clay, 30% silt, 40% sand, 25% gravel; no to low plasticity; moderate to high estimated permeability.	30.0
<1.0	35 50/6 38 50/6 45 50/6 24	MW-2-30.5'	GM	Clayey Sandy Silty GRAVEL; (GM); dark yellow brown; very dense; damp; 15% clay, 15% silt, 20% sand, 50% fine to coarse gravel; low plasticity; moderate estimated permeability. @ 31.7' - color change to dark greenish gray; chert to 2". ▽	33.5
				Sandy Clayey GRAVEL; (GC); very dense; wet to saturated; 25% clay, 15% silt, 20% sand, 40% gravel.	

WELL DIAGRAM: 4" diam., Schedule 40 PVC; Portland Type I/II; Bentonite Seal; Lonestar Sand #3

Continued Next Page

WELL LOG (SHELL) G:\PLEASA~4\GINTPLE4226.GPJ DEFAULT.GDT 6/23/00

Cambria Environmental Technology, Inc.
1144 - 65th St.
Oakland, CA 94608
Telephone: (510) 420-0700
Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	MW-2
JOB/SITE NAME	Shell-branded service station	**DRILLING STARTED**	18-Jan-00
LOCATION	4226 First Street, Pleasanton, California	**DRILLING COMPLETED**	19-Jan-00

Continued from Previous Page

TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
<1.0	50/6 40 50/6 35 50/6 50/6 37 50/6 29 50/6 27 50/6 28 50/6 12 19 27	MW-2-35.0'		40 45	GC ML ML ML		**Sandy Clayey GRAVEL**; (GC); very dense; wet to saturated; 25% clay, 15% silt, 20% sand, 40% gravel. **Sandy Gravelly SILT**; (ML); hard; saturated; 12% clay, 58% silt, 15% sand, 15% gravel; medium plasticity; low estimated permeability. **Sandy Clayey SILT**; (ML); hard; saturated; 15% clay, 60% silt, 15% sand, 10% gravel. **Sandy SILT**; (ML); hard; saturated; 12% clay, 45% silt, 43% fine grained sand; slight plasticity ; low estimated permeability.	40.3 43.5 45.0 48.0	4"-diam., 0.020" Slotted Schedule 40 PVC Bottom of Boring @ 48 ft

WELL LOG (SHELL) G:\PLEASA-4\GINT\PLE4226.GPJ DEFAULT.GDT 6/23/00

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	MW-2
JOB/SITE NAME	Shell-branded service station	DRILLING STARTED	18-Jan-00
LOCATION	4226 First Street, Pleasanton, California	DRILLING COMPLETED	19-Jan-00
PROJECT NUMBER	241-0395	WELL DEVELOPMENT DATE (YIELD)	03-Feb-00
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	372.65 ft above msl
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	372.40 ft above msl
BORING DIAMETER	8"	SCREENED INTERVAL	26 to 46 ft bgs
LOGGED BY	B. Jakub	DEPTH TO WATER (First Encountered)	33.0 ft (18-Jan-00) ▽
REVIEWED BY	S. Bork, RG# 5620	DEPTH TO WATER (Static)	NA ▼
REMARKS	Hand augered to 5' bgs.		

TPHg (ppm)	BLOW COUNTS	SAMPLE ID	DEPTH (ft bgs)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
					ASPHALT.	0.5
				ML	Sandy SILT: (ML); dark brown; soft; damp; 3% clay, 80% silt, 15% fine grained sand, 2% gravel; low plasticity; low to moderate estimated permeability; palm tree roots.	4.0
			5	SM	Silty SAND: (SM); yellow brown; soft; damp; 2% clay, 43% silt, 50% sand, 5% gravel; low plasticity; moderate estimated permeability.	5.8
				MH	Clayey SILT: (MH); yellow brown; stiff; damp; 38% clay, 50% silt, 2% fine grained sand, 10% fine to coarse, subangular gravel; high plasticity; low estimated permeability.	6.6
<1.0		MW-2-6.3'		SM	Silty SAND: (SM); yellow brown; dense; damp; 2% clay, 40% silt, 50% sand, 8% gravel; no plasticity; high estimated permeability.	10.0
			10	SM	Clayey Silty SAND: (SM); yellow brown; stiff; damp; 15% clay, 30% silt, 50% sand, 5% gravel; low plasticity; moderate estimated permeability.	11.0
				SM	Silty SAND: (SM); yellow brown; dense; damp; 2% clay, 40% silt, 50% sand, 8% gravel; no plasticity; high estimated permeability. @ 12.8' - 10% clay, 38% silt, 50% sand, 8% gravel; moderate estimated permeability.	15.0
			15	ML	Clayey SILT: (ML); yellowish brown; stiff; damp; 15% clay, 80% silt, 3% sand, 2% gravel; medium plasticity; low estimated permeability.	16.5
<1.0		MW-2-16.5'		SM	Gravelly Silty SAND: (SM); yellow brown; damp; 5% clay, 25% silt, 45% fine to coarse grained sand, 25% gravel to 3/4"; high estimated permeability.	18.2
			20	SM	Clayey Silty SAND: (SM); yellow brown; damp; 15% clay, 25% silt, 50% sand, 10% fine gravel.	22.0
<1.0		MW-2-21.5'		GM	Sandy Silty GRAVEL: (GM); yellow brown; damp; 10% clay, 30% silt, 20% sand, 40% fine to coarse gravel; chert to 2".	
			25			26.0
<1.0		MW-2-26.0'		SM	Gravelly Silty SAND: (SM); very dense; damp; 5% clay, 30% silt, 40% sand, 25% gravel; no to low plasticity; moderate to high estimated permeability.	30.0
	35 50/6		30			
<1.0	38 50/6	MW-2-30.5'		GM	Clayey Sandy Silty GRAVEL: (GM); dark yellow brown; very dense; damp; 15% clay, 15% silt, 20% sand, 50% fine to coarse gravel; low plasticity; moderate estimated permeability. @ 31.7' - color change to dark greenish gray; chert to 2". ▽	33.5
	45 50/6				Sandy Clayey GRAVEL: (GC); very dense; wet to saturated; 25% clay, 15% silt, 20% sand, 40% gravel.	
	24		35			

WELL DIAGRAM: 4" diam., Schedule 40 PVC; Portland Type I/II; Bentonite Seal; Lonestar Sand #3

WELL LOG (SHELL) G:\PLEASA-4\GINTPLE\4226.GPJ DEFAULT.GDT 6/23/00

Continued Next Page

Cambria Environmental Technology, Inc.
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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	MW-2
JOB/SITE NAME	Shell-branded service station	**DRILLING STARTED**	18-Jan-00
LOCATION	4226 First Street, Pleasanton, California	**DRILLING COMPLETED**	19-Jan-00

Continued from Previous Page

TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
<1.0	50/6 40 50/6 35 50/6 50/0 37 50/6 29 50/6 27 50/6 28 50/6 12 19 27	MW-2-35.0'		40 45	GC ML ML ML		**Sandy Clayey GRAVEL**; (GC); very dense; wet to saturated; 25% clay, 15% silt, 20% sand, 40% gravel. **Sandy Gravelly SILT**; (ML); hard; saturated; 12% clay, 58% silt, 15% sand, 15% gravel; medium plasticity; low estimated permeability. **Sandy Clayey SILT**; (ML); hard; saturated; 15% clay, 60% silt, 15% sand, 10% gravel. **Sandy SILT**; (ML); hard; saturated; 12% clay, 45% silt, 43% fine grained sand; slight plasticity ; low estimated permeability.	40.3 43.5 45.0 48.0	4"-diam., 0.020" Slotted Schedule 40 PVC Bottom of Boring @ 48 ft

WELL LOG (SHELL) G:\PLEASA-4\GINT\PLE4226.GPJ DEFAULT.GDT 6/23/00

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Telephone: (510) 420-0700
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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	MW-3
JOB/SITE NAME	Shell-branded service station	DRILLING STARTED	18-Jan-00
LOCATION	4226 First Street, Pleasanton, California	DRILLING COMPLETED	19-Jan-00
PROJECT NUMBER	241-0395	WELL DEVELOPMENT DATE (YIELD)	03-Feb-00
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	375.90 ft above msl
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	375.05 ft above msl
BORING DIAMETER	8"	SCREENED INTERVAL	20 to 35 ft bgs
LOGGED BY	B. Jakub	DEPTH TO WATER (First Encountered)	25.0 ft (18-Jan-00) ▽
REVIEWED BY	S. Bork, RG# 5620	DEPTH TO WATER (Static)	NA ▼
REMARKS	Hand augered to 5' bgs.		

TPHg (ppm)	BLOW COUNTS	SAMPLE ID	DEPTH (ft bgs)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
			0	ML	ASPHALT. SILT; (ML); brown; soft; damp; 2% clay, 90% silt, 7% fine grained sand, 1% gravel; no plasticity; moderate to low estimated permeability.	0.5
<1.0	14 28 40	MW-3-5.0'	5	SM	Silty SAND; (SM); yellow brown; dense; damp; 2% clay, 43% silt, 55% sand.	5.3
				ML	Clayey SILT; (ML); yellow brown; hard; wet; 15% clay, 60% silt, 5% sand, 10% fine to coarse, subangular gravel; medium plasticity; low estimated permeability.	5.6
<1.0	25 50/6	MW-3-10.5'	10			
<1.0	42 50/6	MW-3-15.5'	15		Gravelly Silty SAND; (SM); yellow brown; very dense; 5% clay, 20% silt, 60% fine grained sand, 15% fine, subangular to subrounded gravel.	15.0
<1.0	18 24 50/6	MW-3-20.5'	20	SM	@ 22' - silt layer noted by driller.	
<1.0	12 22 30	MW-3-25.5'	25		▽ Clayey Silty SAND; (SM); yellow brown; dense; wet to saturated; 15% clay, 35% silt, 40% fine grained sand, 10% fine to coarse, subangular gravel; low plasticity; low estimated permeability.	25.0
	50/6		30	GM	Sandy Silty GRAVEL; (GM); very dense; 5% clay, 30% silt, 25% sand, 40% gravel; low plasticity; moderate estimated permeability.	30.0
			35			35.0

WELL DIAGRAM

- 4" diam., Schedule 40 PVC
- Portland Type I/II
- Bentonite Seal
- Lonestar Sand #3
- 4"-diam., 0.020" Slotted Schedule 40 PVC

Continued Next Page

Cambria Environmental Technology, Inc.
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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	MW-3
JOB/SITE NAME	Shell-branded service station	DRILLING STARTED	18-Jan-00
LOCATION	4226 First Street, Pleasanton, California	DRILLING COMPLETED	19-Jan-00

Continued from Previous Page

TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
	15 36 46				ML		**SILT:** (ML); light brown; hard; 10% clay, 80% silt, 10% sand; low plasticity; low estimated permeability.		Bentonite Seal
	15 28 42			40	ML		**Clayey SILT:** (ML); hard; 20% clay, 70% silt, 10% fine grained sand; medium plasticity; low estimated permeability.	40.0 41.5	Bottom of Boring @ 41.5 ft

WELL LOG (SHELL) G:\PLEASA~1\GINT\PLE4226.GPJ DEFAULT.GDT 6/23/00

Delta

Environmental Consultants, Inc.

Project No:	SJ42-26F-1	Client:	Shell Oil Products US	Well No: MW-4	
Logged By:	AP	Location:	4226 First Street	Page 1 of 3	
Driller:	Gregg	Date Drilled:	8/24/2006	Location Map	
Drilling Method:	HSA/AK (7")	Hole Diameter:	12"	Please see site map	
Sampling Method:	SS	Hole Depth:	50'		
Casing Type:	sch 40 PVC	Well Diameter:	4"		
Slot Size:	0.01	Well Depth:	47'		
Gravel Pack:	#2/12 sand	Casing Stickup:	-		
Elevation		Northing		Easting	

Well Completion: Backfill / Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery / Interval	Soil Type	LITHOLOGY / DESCRIPTION
Cement				air knifed & hand augered	1		AF	~4" asphalt, ~8" baserock
					2			
					3			
					4			
					5			
					6			
					7			
					8			
		dry	0.1	3 4 5	9		SC	**Clayey SAND with Gravel:** dark brown to orangish brown, loose, 60-70% fine to coarse grained sands, 20-30% fines, 10-20% gravels up to 1" diameter
					10			
					11			
					12		CL	**Sandy Lean CLAY:** orangish brown, very stiff, 5-10% gravels up to 1" diameter, 35-45% fine grained sands, 50-60% fines, low plasticity
		moist	7.4	6 8 12	13			
					14			
					15			
					16			
					17		SC	
					18			**Clayey SAND:** orangish brown, medium dense, 20-30% fines, 70-80% fine grained sands, trace gravels up to 0.5" diameter, low plasticity
		moist	2	7 11 11	19			
					20			

Delta

Environmental Consultants, Inc.

Project No:	SJ42-26F-1	Client:	Shell Oil Products US	Well No: MW-4	
Logged By:	AP	Location:	4226 First Street	Page 2 of 3	
Driller:	Gregg	Date Drilled:	8/24/2006	Location Map	
Drilling Method:	HSA/AK (7')	Hole Diameter:	12"	Please see site map	
Sampling Method:	SS	Hole Depth:	50'		
Casing Type:	sch 40 PVC	Well Diameter:	4"		
Slot Size:	0.01	Well Depth:	47'		
Gravel Pack:	#2/12 sand	Casing Stickup:	-		
Elevation		Northing		Easting	

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout / Bentonite / Sand					21		SC	Clayey SAND (cont.)
					22			
					23			
		moist	4.1	6 8 9	24		SP-SC	**Poorly Graded SAND with Clay**: brown, medium dense, 5-15% fines, 85-95% fine grained sands
					25			
					26			
					27			
					28			
		moist	7.2	11 13 17	29		SC	**Clayey SAND with Gravel**: brown, medium dense, 20-30% fines, 10-20% gravels up to 0.5" diameter, 50-70% fine to coarse grained sands
					30			
					31			
					32			
					33			
	▼	moist	340	10 16 20	34		CL	**Sandy lean CLAY with Gravel**: brown, hard, 10-20% gravels up to 1" diameter, 20-30% fine grained sands (mostly in small inclusions or lenses), 50-70% fines, low plasticity
					35			
		moist	555	12 14 17	36			
					37			
					38			
		moist	762	13 17 20	39			(orangish brown w/grey mottling, 15-25% gravels up to 1" diameter, 20-30% fine grained sands, 45-65% fines, low plasticity)
					40			

Delta

Environmental Consultants, Inc.

Project No:	SJ42-26F-1	Client:	Shell Oil Products US	Well No: MW-4	
Logged By:	AP	Location:	4226 First Street	Page 3 of 3	
Driller:	Gregg	Date Drilled:	8/24/2006	Location Map	
Drilling Method:	HSA/AK (7')	Hole Diameter:	12"	Please see site map	
Sampling Method:	SS	Hole Depth:	50'		
Casing Type:	sch 40 PVC	Well Diameter:	4"		
Slot Size:	0.01	Well Depth:	47'		
Gravel Pack:	#2/12 sand	Casing Stickup:	-		
Elevation		Northing		Easting	

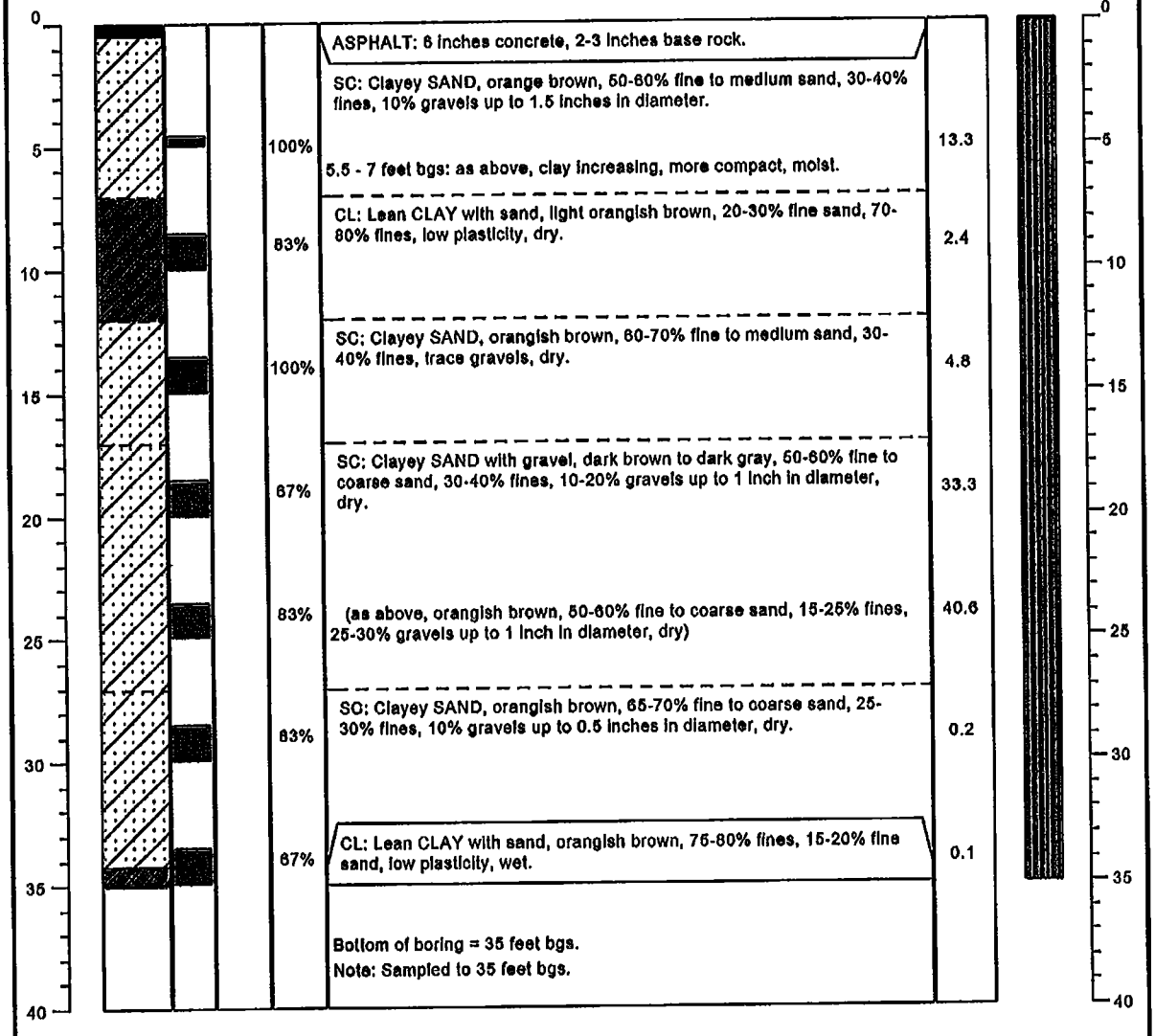
Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Sand					41			CL	sandy lean CLAY w/gravel (cont.)
					42				
					43				
		moist	106	14	44				no grey mottling, 10-20% gravels, 20-30% fine grained sands, 50-70% fines
				17					
				24	45				
					46				
	▽				47				
Bentonite					48			CL	sandy lean CLAY: orangish brown, hard, 35-45% fine grained sands, 55-65% fines, low plasticity
		wet	27	11	49				
				17					
				20	50				Bottom of the boring is at 50 feet bg
					51				
					52				
					53				
					54				
					55				
					56				
					57				
					58				
					59				
					60				

BORING LOG

DELTA Xinogen

Client: Shell Oil Products US
Project Number: SJ4226F1X
Boring No.: B-1

Address: 4226 1st Street, Pleasanton, California	Drilling Date(s): 3/27/07	Boring diameter (in.): 8	Casing Material: NA
Logged By: Andy Persio	Drilling Company: Gregg	Sampling Method: Hand Auger/Split Spoon	Screen Interval: NA
	Drilling Method: HSA	Well Depth (ft.): NA	Screen slot size: NA
	Boring Depth (ft): 35	Casing Diameter (in.): NA	Sand Pack: NA

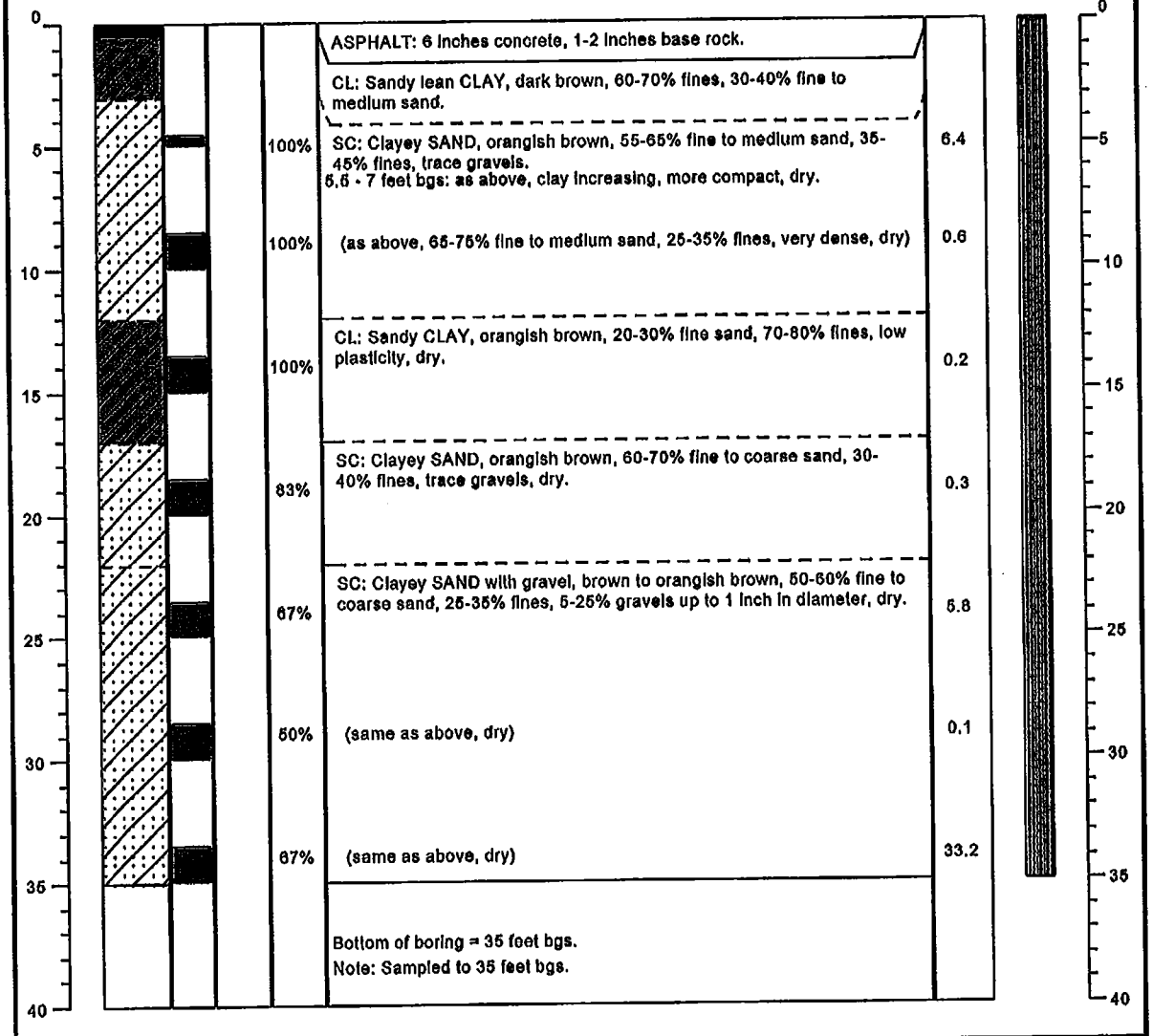


BORING LOG

DELTA Xinogen

Client: Shell Oil Products US
Project Number: SJ4226F1X
Boring No. B-2

Address:	Drilling Date(s): 3/27/07	Boring diameter (in.): 6	Casing Material: NA
4226 1st Street	Drilling Company: Gregg	Sampling Method: Hand Auger/Split Spoon	Screen Interval: NA
Pleasanton, California	Drilling Method: HSA	Well Depth (ft.): NA	Screen slot size: NA
Logged By: Andy Persio	Boring Depth (ft): 35	Casing Diameter (in.): NA	Sand Pack: NA



BORING LOG

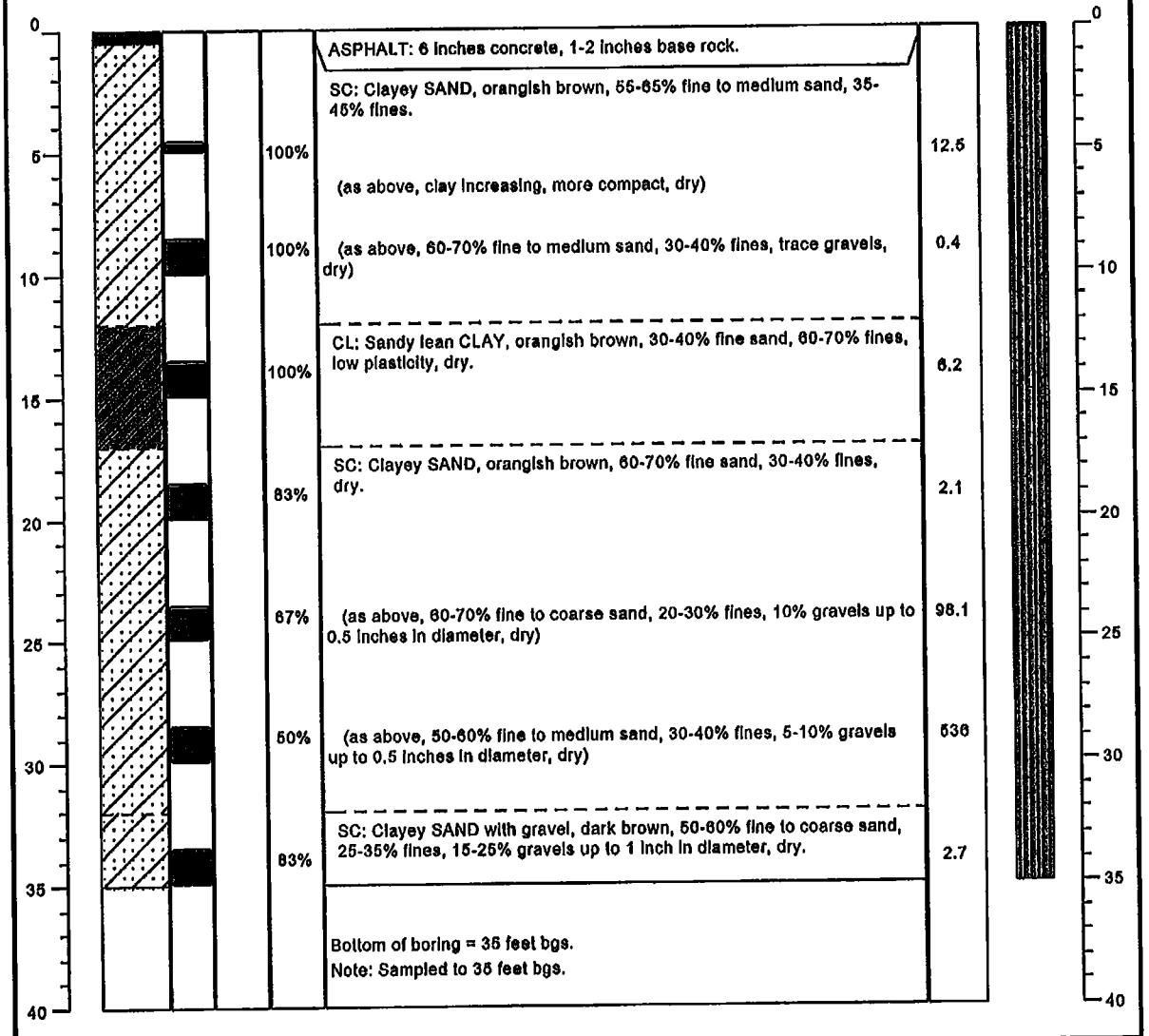
DELTA Xinogen

Client: Shell Oil Products US

Project Number: SJ4226F1X

Boring No. B-3

Address: 4226 1st Street, Pleasanton, California	Drilling Date(s): 3/27-28/07	Boring diameter (in.): 8	Casing Material: NA
Logged By: Andy Persio	Drilling Company: Gregg	Sampling Method: Hand Auger/Split Spoon	Screen Interval: NA
	Drilling Method: HSA	Well Depth (ft.): NA	Screen slot size: NA
	Boring Depth (ft): 35	Casing Diameter (in.): NA	Sand Pack: NA



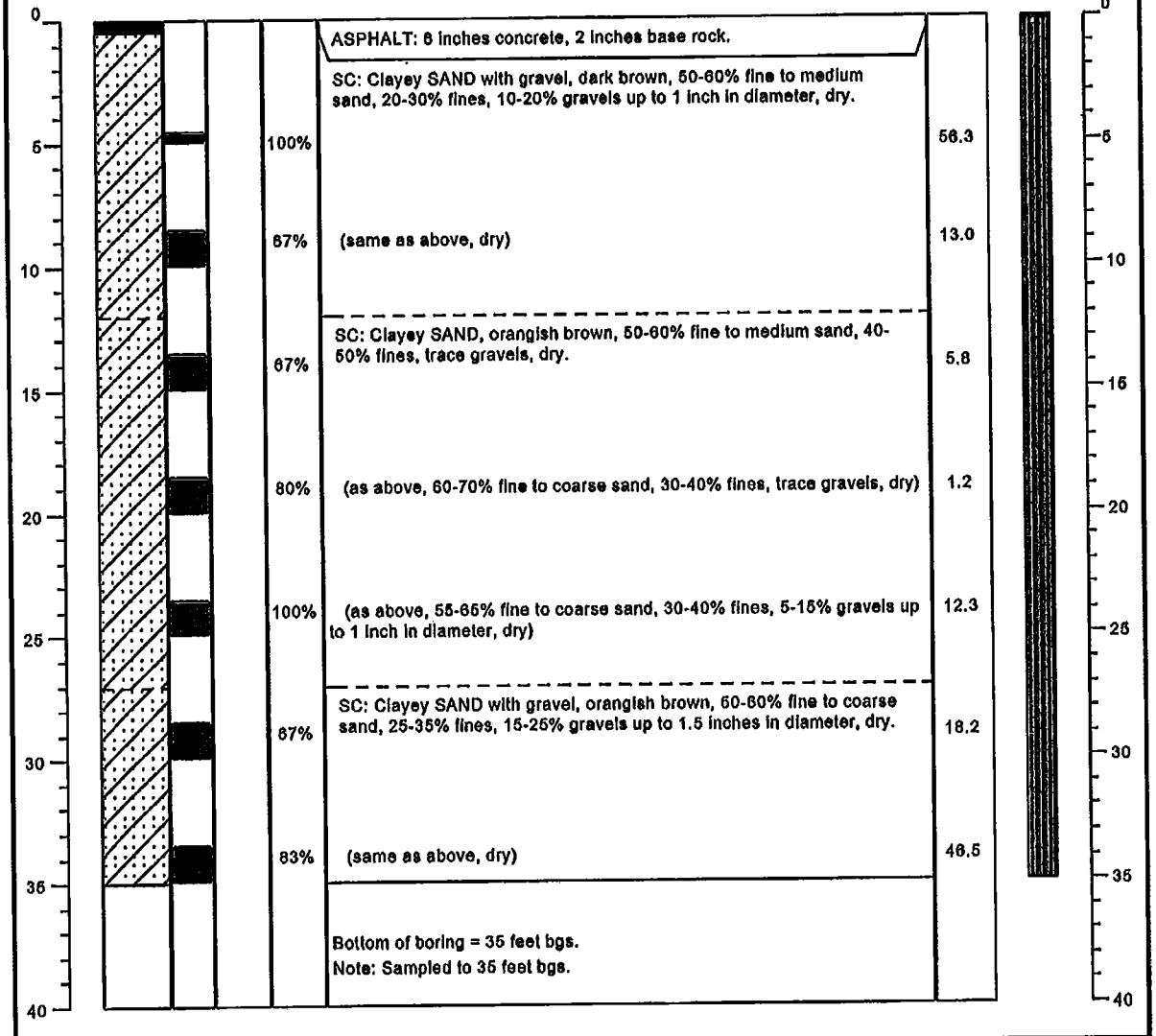
BORING LOG

DELTA Xinogen

Client: Shell Oil Products US
Project Number: SJ4226F1X

Boring No. B-4

Address: 4226 1st Street, Pleasanton, California	Drilling Date(s): 3/27-28/07	Boring diameter (in.): 6	Casing Material: NA
Logged By: Andy Persio	Drilling Company: Gregg	Sampling Method: Hand Auger/Split Spoon	Screen Interval: NA
	Drilling Method: HSA	Well Depth (ft.): NA	Screen slot size: NA
	Boring Depth (ft): 35	Casing Diameter (in.): NA	Sand Pack: NA

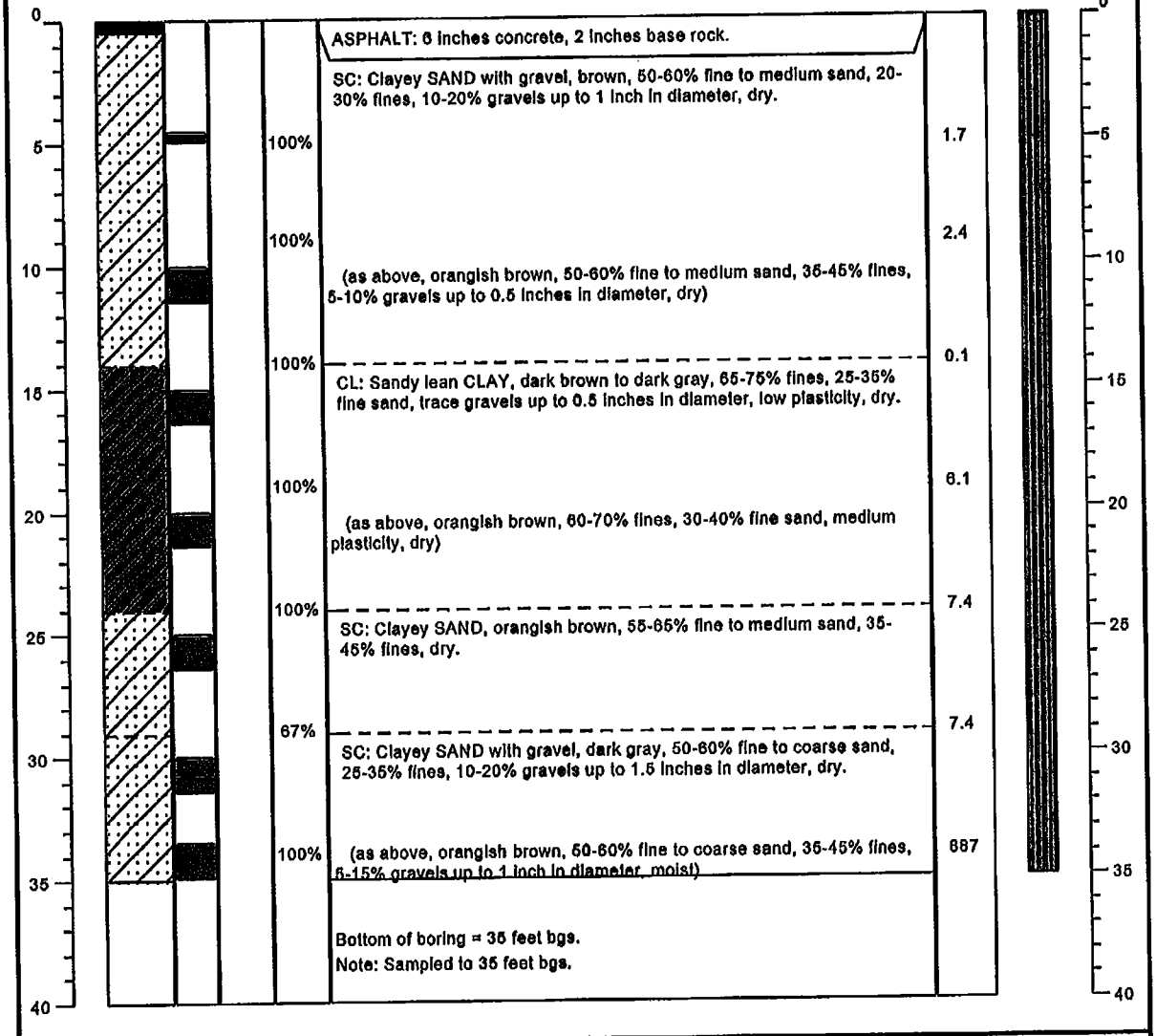


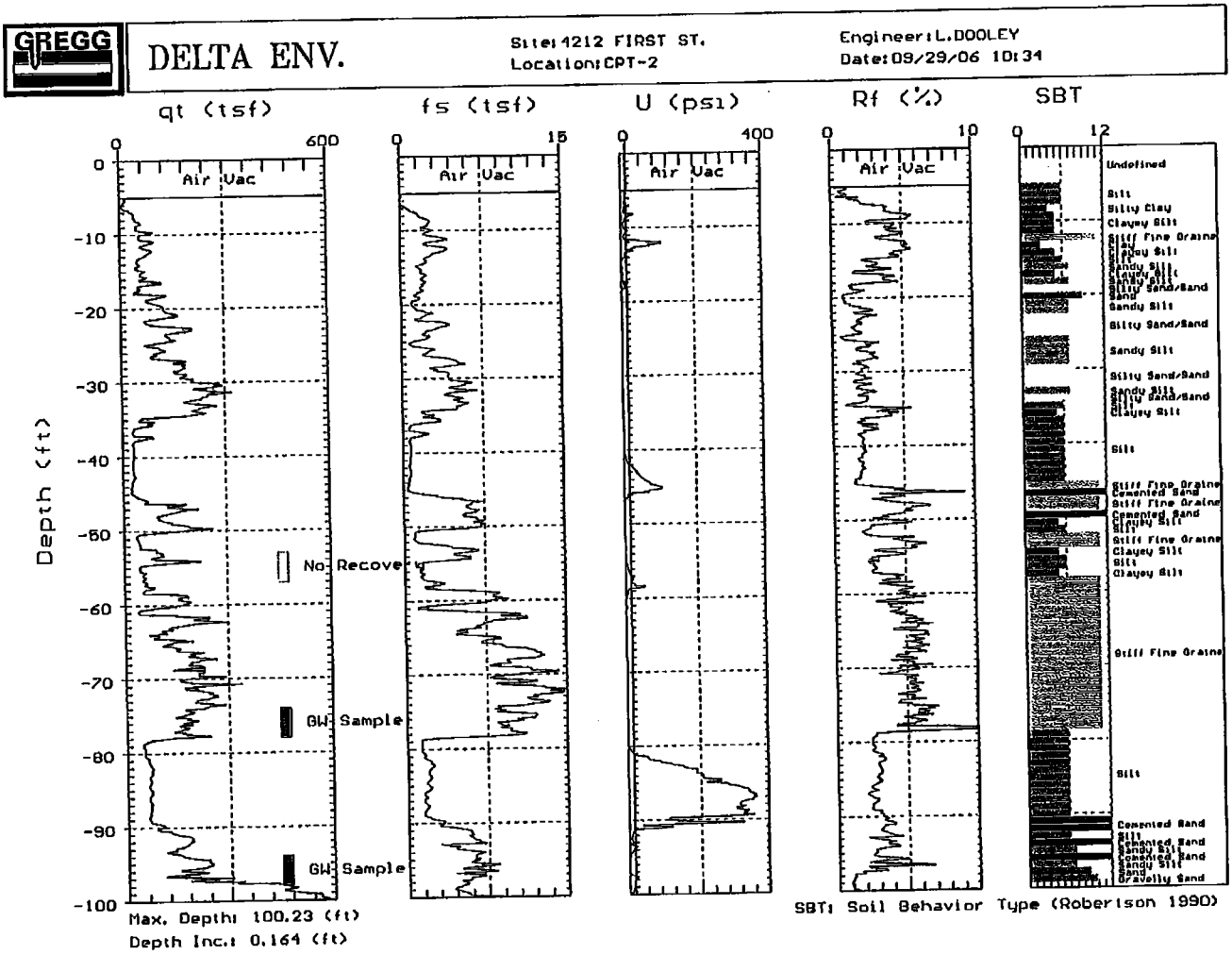
BORING LOG

DELTA Xinogen

Client: Shell Oil Products US
Project Number: SJ4226F1X
Boring No. B-5

Address: 4226 1st Street, Pleasanton, California	Drilling Date(s): 3/27-28/07	Boring diameter (in.): 6	Casing Material: NA
Logged By: Andy Persio	Drilling Company: Gregg	Sampling Method: Hand Auger/Split Spoon	Screen Interval: NA
	Drilling Method: HSA	Well Depth (ft.): NA	Screen slot size: NA
	Boring Depth (ft): 35	Casing Diameter (in.): NA	Sand Pack: NA




GREGG
DELTA ENV.
Site: 4212 FIRST ST.
Location: CPT-2
Engineer: L.DOOLEY
Date: 09/29/06 10:34
qt (tsf)
fs (tsf)
U (psi)
Rf (%)
SBT
Air Vac
No Recovery
GW Sample
GW Sample
Depth (ft)
Max. Depth: 100.23 (ft)
Depth Inc.: 0.164 (ft)
SBT: Soil Behavior Type (Robertson 1990)
Undefined
Silt
Silty Clay
Clayey Silt
Stiff Fine Grained
Clay
Clayey Silt
Silt
Sandy Silt
Clayey Silt
Silty Sand/Sand
Sand
Sandy Silt
Silty Sand/Sand
Sandy Silt
Silty Sand/Sand
Sandy Silt
Silty Sand/Sand
Silt
Clayey Silt
Silt
Stiff Fine Grained
Cemented Sand
Stiff Fine Grained
Cemented Sand
Clayey Silt
Silt
Stiff Fine Grained
Clayey Silt
Silt
Clayey Silt
Stiff Fine Grained
Silt
Cemented Sand
Silt
Cemented Sand
Sandy Silt
Cemented Sand
Sandy Silt
Sand
Gravelly Sand

ATTACHMENT C

SENSITIVE RECEPTOR, SOIL, AND GROUNDWATER DATA

Table 4
Well Location Details
Shell-branded Service Station
4226 First Street, Pleasanton

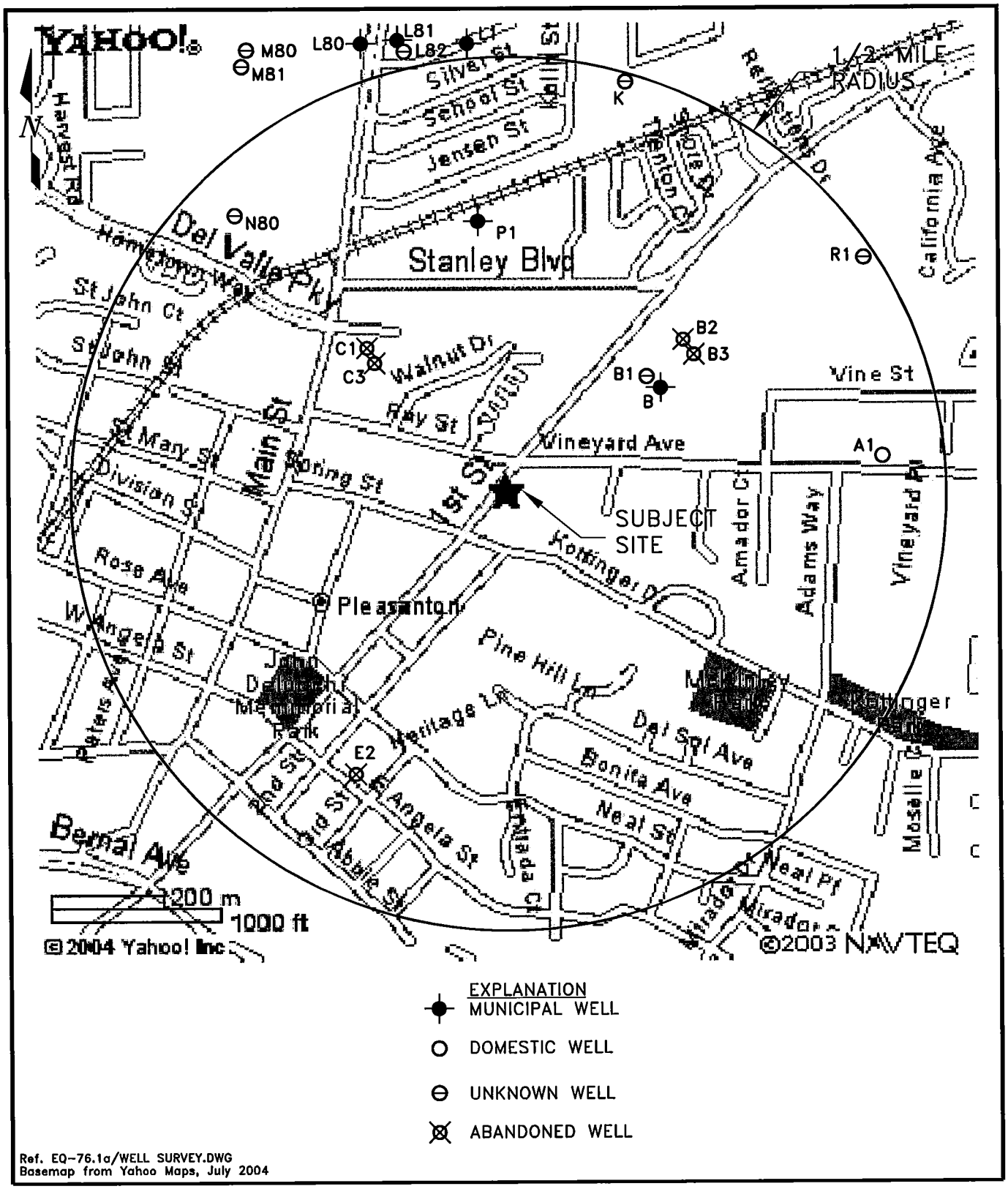
Map Number	Well Number	Source of Information	Well Location	Approximate Distance and Direction from Site (Feet)	Total Depth ft.	Date Installed	Use
K	3S/1E - 16K	DWR	1500' North of Ball Park (according to log)	>2,200 NNE	133	1916	NA
L1	3S/1E - 16L1	DWR	No distances on log, see approximate location on map	>2,200 N	152	1945	Municipal
L80	3S/1E - 16L80	DWR	20'S Blacow South Vine, 150'W of Santa Rita Road	>2,400 NNW	158	1936	Municipal
L81	3S/1E - 16L81	DWR	No distances on log, see approximate location on map	>2,200 N	205	NA	Municipal
L82	3S/1E - 16L82	DWR	No distances on log, see approximate location on map	>2,200 N	45	1912	NA
M80	3S/1E - 16M80	DWR	No distances on log, see approximate location on map	>2,400NNW	33	1912	NA
M81	3S/1E - 16M81	DWR	No distances on log, see approximate location on map	>2,400NNW	37	1912	NA
N80	3S/1E - 16N80	DWR	No distances on log, see approximate location on map	>1,300 NW	178	1912	NA
P1	3S/1E - 16P1	DWR	No distances on log, see approximate location on map	>1,200 N	305	1956	Municipal
A1	3S/1E - 21A1	DWR	No distances on log, see approximate location on map	>1,800 E	262	1954	Domestic
B	3S/1E - 21B	DWR	400'E of First St., 500'N of Vineyard	900'NE	250	1913	Municipal
B1	3S/1E - 21B1	DWR	400'E of First St., 500'N of Vineyard	900'NE	796	1960	Test Well
B2	3S/1E - 21B2	Zone 7	See Map	1200'NE	30	NA	Abandoned Water Well
B3	3S/1E - 21B3	Zone 7	See Map	1200'NE	55	NA	Abandoned Water Well
C1	3S/1E - 21C1	Zone 7	See Map	1,100'NW	57	NA	Abandoned water Well
C3	3S/1E - 21C3	Zone 7	See Map	1,100'NW	NA	NA	Abandoned Water Well
E2	3S/1E - 21E2	Zone 7	See Map	2,000SW	35	NA	Abandoned Water Well
R1	3S/1E - 16R1	Zone 7	See Map	2,600NE	226	NA	Water Production Well

NA = Information Not Available

Table 5
Well Construction Details
Shell-branded Service Station
4226 First Street, Pleasanton

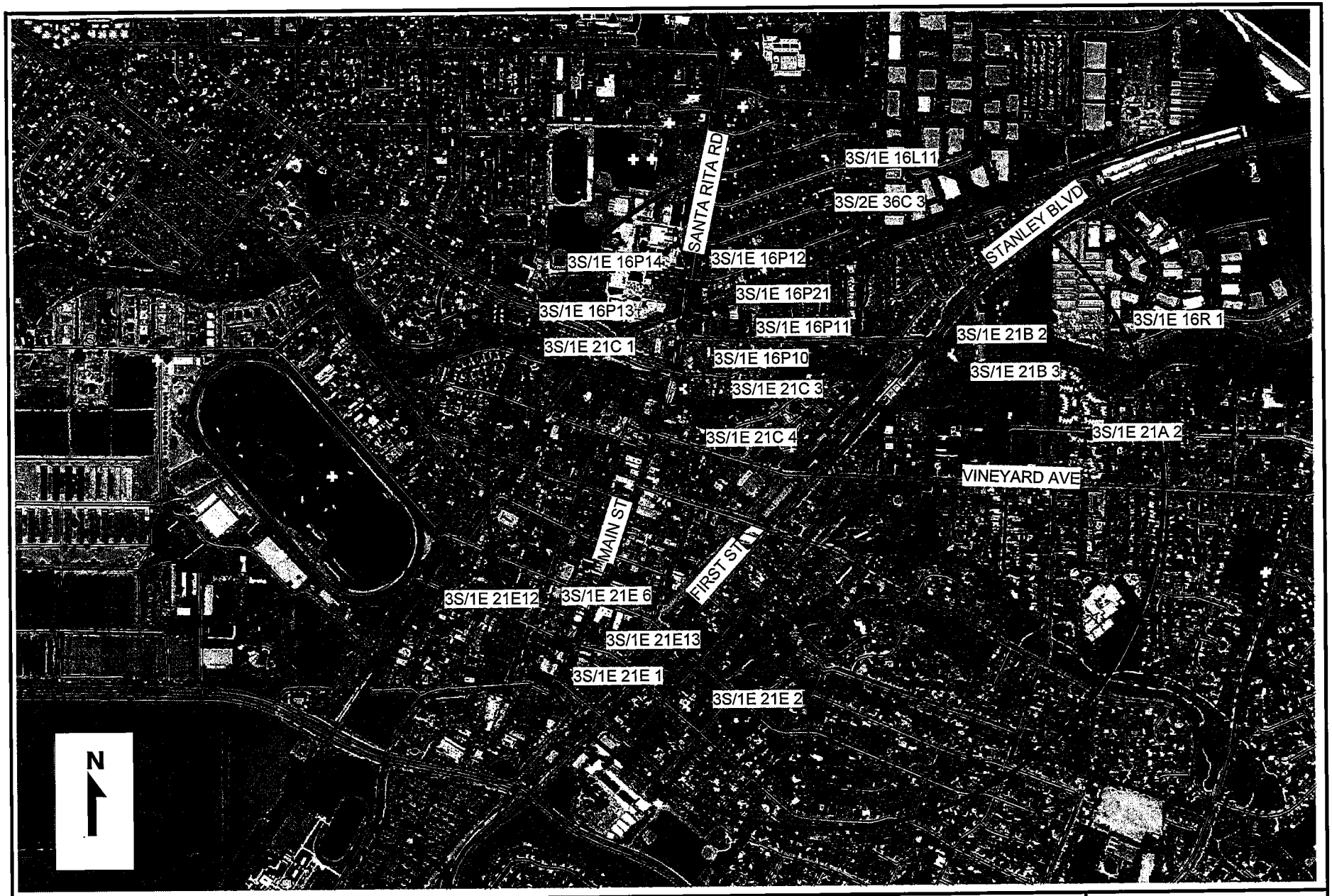
Map Number	Total Depth	Depth to Water (ft. bgs)	Casing Type	Casing Diameter (in.)	Screen Interval (ft. bgs)	Gravel Pack Interval (ft. bgs)	Annular Seal Depth (ft. bgs)	Annular Seal Material	Well Construction Method	Driller's log Number	Pumping Test Rate (gpm)	Test Duration (hours)
K	133	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L1	152	22	12 Gauge	12	56-136	NA	NA	NA	NA	NA	NA	NA
L80	158	NA	NA	NA	48-66 and various to 156'	NA	NA	NA	NA	NA	NA	NA
L81	205	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L82	45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
M80	33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
M81	37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N80	178	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P1	305	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
A1	262	86	3/16 steel	10	110-178	NA	NA	NA	Cable	NA	33	NA
B	250	NA	NA	12	50-60, 105-135, 188-238	NA	NA	NA	NA	NA	NA	NA
B1	796	NA	NA	NA	NA	NA	NA	NA	Rotary	50865	NA	NA
B2	30	NA	NA	8	NA	NA	NA	NA	NA	NA	NA	NA
B3	55	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA
C1	57	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA
C3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E2	35	NA	Brick	3'2"	NA	NA	NA	NA	NA	NA	NA	NA
R1	226	NA	NA	10	NA	NA	NA	NA	NA	NA	NA	NA

NA = Information Not Available
ft. bgs = Feet below ground surface
gpm = Gallons per minute



Ref. EQ-76.1a/WELL SURVEY.DWG
Basemap from Yahoo Maps, July 2004

PREPARED BY **TOXICHEM Management Systems, Inc.** Environmental & Occupational Health Services	**Shell-Branded Service Station** 4226 First Street Pleasanton, California SITE VICINITY AND WELL SURVEY MAP	FIGURE: 1 PROJECT: EQ-76



	ZONE 7 WATER AGENCY **100 NORTH CANYONS PARKWAY** **LIVERMORE, CA 94551**	**WELL LOCATION MAP**	**SCALE: 1"= 1000'** **RADIUS = 1/2 mi** **4226 FIRST ST** **H:\FLOOD\REFERALLS\REFERALLS.WOR**

Table 1 Soil Analytical Results - Shell-branded Service Station Incident# 98995840
4226 First Street, Pleasanton, California

Sample	TPHg	Benzene	Toluene	Ethylbenzene	Xylene	MTBE
	←		(concentrations reported in ppm)		→	
MW-2-6.3'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-2-16.5'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-2-21.5'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-2-26.0'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-2-30.5'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-2-35.0'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-3-5.0'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-3-10.5'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-3-15.5'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-3-20.5'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05
MW-3-25.5'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tert-Butyl Ether by EPA 8020.
ppm = parts per million

Samples collected January 18 and 19, 2000

TABLE 1

CHEMICAL ANALYSIS OF SOIL SAMPLES
SHELL SERVICE STATION
4226 FIRST STREET
PLEASANTON, CALIFORNIA

Concentrations in mg/kg (parts per million)

Boring	Depth (ft)	TPH	Benzene	Toluene	Ethylbenzene	Xylene
SB-1	15	4.2	ND	ND	ND	ND
SB-1	35	18	ND	ND	ND	ND
SB-1	50	ND	ND	ND	ND	ND
SB-2	15	ND	ND	ND	ND	ND
SB-2	30	7.2	ND	0.17	ND	ND
SB-3	10	ND	ND	ND	ND	ND
SB-3	30	ND	ND	ND	ND	ND
WA-1	30	380	2.2	2.7	5.3	32
WA-1	35	290	1.8	0.35	0.24	1.5
WA-1	40	ND	ND	ND	ND	ND
WA-1	50	ND	ND	ND	ND	ND
Detection Limits:		1.0	0.050	0.10	0.10	0.10

Notes:
1) TPH - Total Petroleum Hydrocarbons (gasoline range) analyzed by EPA Methods 5030/8015
2) Benzene, Toluene, Ethylbenzene and Xylene analyzed by EPA Method 8020
3) ND- Not Detected at detection limit shown
4) SB-1, SB-2 and SB-3 samples collected March 5, 1990
   WA-1 samples collected March 6, 1990

TABLE 1

ANALYTICAL RESULTS OF SOIL SAMPLES

Concentrations in mg/kg (parts per million)

SHELL OIL COMPANY
4226 FIRST STREET
PLEASANTON, CALIFORNIA

Boring	TPH	Benzene	Toluene	Ethylbenzene	Xylenes
SB4-15	N.D.	N.D.	N.D.	N.D.	N.D.
SB4-35	N.D.	0.023	0.0071	N.D.	0.0055
SB4-50	N.D.	0.030	0.0059	N.D.	N.D.
SB5-35	820	65	3.7	6.5	65
SB5-40	N.D.	N.D.	N.D.	N.D.	N.D.
SB5-50	N.D.	N.D.	N.D.	N.D.	N.D.
DETECTION LIMITS:	1.0	0.0050	0.0050	0.0050	0.0050

NOTES:
1) TPH - Total Petroleum Hydrocarbons (Gasoline Range) analyzed by EPA Methods 5030/8015.
2) Benzene, Toluene, Ethylbenzene and Xylene analyzed by EPA Method 8020.
3) ND - Not detected.

Table 1 Soil Analytical Results - Shell-branded Service Station Incident# 98995840
4226 First Street, Pleasanton, California

Sample	TPHg	Benzene	Toluene	Ethyl Benzene	Xylene	MTBE
	← (ppm) →					
SB-6-15.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-6-19.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-6-25.0'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-6-30.0'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-6-35.0'	<1.0	0.0069	<0.0050	<0.0050	<0.0050	<0.025
SB-6-40.0'	<1.0	<0.0050	0.28	<0.0050	<0.0050	<0.025
SB-6-45.0'	<1.0	0.1	<0.0050	<0.0050	<0.0050	<0.025
SB-7-15.0'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-7-19.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-7-24.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-7-29.3'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-7-34.3'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-7-40.0'	83	<0.0050	0.37	0.26	0.26	<0.025
SB-7-44.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-7-59.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
SB-7-64.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.050

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tert-Butyl Ether
ppm = parts per million

Samples collected April 7 through 9, 1999

Table 2
Summary of Soil Analytical Data
Shell Service Station
4226 First Street, Pleasanton, CA

Sample Designation	Date Sampled	Depth (feet)		TPH-G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Xylene and Ethyl-benzene (mg/kg)
S-B	9/27/1985	3.5 to 5	*	**2**	<0.1	<0.1	<0.4
S-B	9/27/1985	7 to 8.5	*	**460**	<2.0	**2**	**32**
S-B	9/27/1985	10.5 to 12		**610**	<2.0	**3.5**	**63**
S-B	9/27/1985	14 to 15.5		**1,300**	<2.5	**9.6**	**260**
S-B	9/27/1985	19 to 20.5		<2	<0.1	<0.1	<0.4
S-C	9/27/1985	10.5 to 12		<2	<0.1	<0.1	<0.4
S-D	9/27/1985	10.5 to 12		<2	<0.1	<0.1	<0.4

Notes:
mg/kg = milligrams per kilogram
TPH-G = Total petroleum hydrocarbons as gasoline
* Sample of gravel from UST pit

Table 2
Summary of Soil Analytical Data
Shell Service Station
4226 First Street, Pleasanton, CA

Sample Designation	Date Sampled	Depth (feet)	TPH-G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)
MW-1B@65'	8/23/2006	65	<2.5	<0.025	<0.025	<0.025	<0.050	<0.025	<0.250
MW-1B@69.5'	8/23/2006	69.5	<2.5	<0.025	<0.025	<0.025	<0.050	<0.025	<0.250
MW-1B@95'	8/23/2006	95	<2.5	<0.025	<0.025	<0.025	<0.050	<0.025	<0.250
MW-4@35'	8/24/2006	35	**51**	<0.025	<0.025	<0.025	<0.050	**0.17**	<0.250
MW-4@36.5'	8/24/2006	36.5	**380**	<0.025	<0.025	**1.2**	**1.6**	**0.092**	<0.250
MW-4@39.5'	8/24/2006	39.5	**6.7**	<0.025	<0.025	**0.05**	**0.064**	**0.038**	<0.250
MW-4@44.5'	8/24/2006	44.5	<2.5	<0.025	<0.025	<0.025	<0.050	**0.59**	<0.250
MW-4@50'	8/24/2006	50	<2.5	<0.025	<0.025	<0.025	<0.050	**0.56**	<0.250

Notes:
mg/kg = milligrams per kilogram
TPH-G = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tert-butyl ether

TABLE 1
WELL CONCENTRATIONS
Shell-branded Service Station
4212 First Street
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	6/16/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	371.20	37.81	333.39
MW-1	6/30/1999	89.0	5.89	<0.500	<0.500	0.652	<5.00	NA	NA	NA	NA	NA	371.20	33.65	337.55
MW-1	9/24/1999	1,560	473	<10.0	<10.0	22.8	<2.50	NA	NA	NA	NA	NA	371.20	37.04	334.16
MW-1	12/8/1999	1,020	375	<5.00	<5.00	15.2	<50.0	NA	NA	NA	NA	NA	371.20	36.79	334.41
MW-1	2/10/2000	523	106	<5.00	<5.00	31.8	2.9	NA	NA	NA	NA	NA	371.20	34.90	336.30
MW-1	5/17/2000	<50.0	<0.500	<0.500	<0.500	<0.500	37	29.5	NA	NA	NA	NA	371.20	32.55	338.65
MW-1	8/3/2000	808	290	<2.50	<2.50	8.9	<12.5	NA	NA	NA	NA	NA	371.20	39.13	332.07
MW-1	10/31/2000	507	250	0.962	<0.500	23.5	3.76	NA	NA	NA	NA	NA	371.20	37.91	333.29
MW-1	3/1/2001	<50.0	<0.500	<0.500	<0.500	<0.500	74.6	NA	NA	NA	NA	NA	371.20	39.60	331.60
MW-1	5/30/2001	780	280	<2.0	<2.0	11	NA	<2.0	NA	NA	NA	NA	371.20	39.53	331.67
MW-1	8/2/2001	1,900	580	<2.5	<2.5	12	NA	<25	NA	NA	NA	NA	371.20	39.61	331.59
MW-1	12/6/2001	840	190	<0.50	<0.50	13	NA	<5.0	NA	NA	NA	NA	371.20	39.63	331.57
MW-1	2/5/2002	2,700	650	<2.5	<2.5	7.2	NA	<25	NA	NA	NA	NA	371.20	35.53	335.67
MW-1	6/17/2002	2,500	550	<2.0	<2.0	5.9	NA	<20	NA	NA	NA	NA	371.20	39.29	331.91
MW-1	7/25/2002	690	130	<0.50	<0.50	4.4	NA	18	NA	NA	NA	NA	371.20	39.39	331.81
MW-1	11/14/2002	400	31	<0.50	<0.50	2.7	NA	27	NA	NA	NA	NA	371.20	40.00	331.20
MW-1	2/12/2003	840	0.85	<0.50	<0.50	<0.50	NA	40	NA	NA	NA	NA	371.20	32.92	338.28
MW-1	5/14/2003	680	190	<2.5	<2.5	<5.0	NA	95	NA	NA	NA	NA	371.20	32.57	338.63
MW-1	7/29/2003	870	190	<2.5	<2.5	<5.0	NA	150	NA	NA	NA	NA	371.20	33.82	337.38
MW-1	11/19/2003	<200	14	<2.0	<2.0	<4.0	NA	230	NA	NA	NA	NA	371.20	38.28	332.92
MW-1	2/19/2004	58 d	11	<0.50	<0.50	<1.0	NA	85	NA	NA	NA	NA	371.20	36.93	334.27
MW-1	5/3/2004	670	310	<2.5	<2.5	<5.0	NA	420	NA	NA	NA	NA	371.20	32.70	338.50
MW-1	8/24/2004	430 d	34	<2.5	<2.5	<5.0	NA	690	NA	NA	NA	NA	371.20	34.66	336.54
MW-1	11/15/2004	<250	29	<2.5	<2.5	<5.0	NA	470	NA	NA	NA	NA	371.20	38.27	332.93
MW-1	2/2/2005	540 e	87	<2.5	<2.5	<5.0	NA	700	NA	NA	NA	NA	371.20	32.02	339.18
MW-1	5/5/2005	460 e	88	<2.5	<2.5	<5.0	NA	300	NA	NA	NA	NA	371.20	36.82	334.38
MW-1	8/5/2005	910	230	<2.5	<2.5	<5.0	NA	480	NA	NA	NA	NA	371.20	33.35	337.85
MW-1	11/22/2005	1,760	27	<0.500	<0.500	1	NA	1,160	NA	NA	NA	NA	371.20	33.42	337.78
MW-1	2/7/2006	4,620	225	<0.500	<0.500	<0.500	NA	1,480	NA	NA	NA	NA	371.20	31.63	339.57

TABLE 1
WELL CONCENTRATIONS
Shell-branded Service Station
4212 First Street
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	5/16/2006	1,100	130	<0.50	2	2	NA	1,600	NA	NA	NA	NA	371.20	31.16	340.04
MW-1	8/21/2006	2,700	86	<0.500	1	1	NA	1,960	NA	NA	NA	NA	371.20	33.07	338.13
MW-1	11/14/2006	1,400 g	30	<25	<25	<25	NA	2,100	<25	<25	<25	<1,000	371.20	33.73	337.47
MW-1	2/1/2007	800	21	<0.50	<0.50	<1.0	NA	2,300	NA	NA	NA	NA	371.20	33.02	338.18
MW-1	6/1/2007	1,400 j,k	68	<20	<20	4.4 l	NA	2,200	NA	NA	NA	NA	371.20	32.87	338.33
MW-1	8/22/2007	250 j	20	<20	<20	<20	NA	3,100	NA	NA	NA	1,500	371.20	34.64	336.56
MW-1	11/26/2007	1,800 j	33	<20	<20	<20	NA	3,100	<40	<40	<40	930	371.20	35.59	335.61
MW-1	2/19/2008	1,800 j	33	<20	<20	<20	NA	3,700	NA	NA	NA	1,700	371.20	31.05	340.15
MW-1	5/23/2008	3,700	100	<25	<25	<25	NA	3,100	NA	NA	NA	1,300	371.20	31.80	339.40
MW-1	8/7/2008	4,200	33	<25	<25	<25	NA	3,500	NA	NA	NA	<250	371.20	33.03	338.17
MW-1	**12/3/2008**	**3,400**	**34**	**<25**	**<25**	**<25**	**NA**	**3,200**	**NA**	**NA**	**NA**	**980**	**371.20**	**35.19**	**336.01**
MW-1B	9/21/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	371.67	76.94	294.73
MW-1B	9/28/2006	<50	<0.50	<0.50	<0.50	<0.50	NA	21	NA	NA	NA	<20	371.67	77.15	294.52
MW-1B	11/14/2006	320 g	<5.0	<5.0	<5.0	<5.0	NA	310	<5.0	<5.0	<5.0	<200	371.67	69.38	302.29
MW-1B	2/1/2007	77	0.53	<0.50	<0.50	<1.0	NA	150	NA	NA	NA	NA	371.67	60.92	310.75
MW-1B	6/1/2007	<50 j,k	0.25 l	<1.0	<1.0	<1.0	NA	74	NA	NA	NA	NA	371.67	61.07	310.60
MW-1B	8/22/2007	<50 j	0.25 l	<1.0	<1.0	<1.0	NA	35	NA	NA	NA	7.1 l	371.67	77.54	294.13
MW-1B	11/26/2007	<50 j	<0.50	<1.0	<1.0	<1.0	NA	1.7	<2.0	<2.0	<2.0	<10	371.67	68.50	303.17
MW-1B	2/19/2008	65 j	2.6	4.2	<1.0	1.1	NA	58	NA	NA	NA	<10	371.67	57.21	314.46
MW-1B	5/23/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	3.6	NA	NA	NA	<10	371.67	57.53	314.14
MW-1B	8/7/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	1.1	NA	NA	NA	<10	371.67	72.51	299.16
MW-1B	**12/3/2008**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**3.4**	**NA**	**NA**	**NA**	**<10**	**371.67**	**80.84**	**290.83**
MW-2	2/3/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	372.40	32.65	339.75
MW-2	2/7/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	372.40	35.51	336.89
MW-2	2/10/2000	<50.0	<0.500	<0.500	<0.500	<0.500	2.61	NA	NA	NA	NA	NA	372.40	36.62	335.78
MW-2	5/17/2000	120	4.09	<0.500	<0.500	<0.500	29	NA	NA	NA	NA	NA	372.40	32.14	340.26
MW-2	8/3/2000	<50.0	0.692	<0.500	<0.500	<0.500	40.5	36.6b	NA	NA	NA	NA	372.40	32.42	339.98

TABLE 1
WELL CONCENTRATIONS
Shell-branded Service Station
4212 First Street
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	10/31/2000	<50.0	<0.500	<0.500	<0.500	<0.500	57.4	44.8c	NA	NA	NA	NA	372.40	33.02	339.38
MW-2	3/1/2001	173	1.64	1.65	2.86	3.97	127	167	NA	NA	NA	NA	372.40	32.54	339.86
MW-2	5/30/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	170	NA	NA	NA	NA	372.40	32.42	339.98
MW-2	8/2/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	160	NA	NA	NA	NA	372.40	32.55	339.85
MW-2	12/6/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	170	NA	NA	NA	NA	372.40	33.15	339.25
MW-2	2/5/2002	<50	0.72	<0.50	<0.50	1.7	NA	170	NA	NA	NA	NA	372.40	32.29	340.11
MW-2	6/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	260	NA	NA	NA	NA	372.40	32.63	339.77
MW-2	7/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	280	NA	NA	NA	NA	372.40	32.80	339.60
MW-2	11/14/2002	120	13	9	3.8	14	NA	430	NA	NA	NA	NA	372.40	33.31	339.09
MW-2	2/12/2003	<100	<1.0	<1.0	<1.0	<1.0	NA	430	NA	NA	NA	NA	372.40	32.15	340.25
MW-2	5/14/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	470	NA	NA	NA	NA	372.40	32.01	340.39
MW-2	7/29/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	670	NA	NA	NA	NA	372.40	32.51	339.89
MW-2	11/19/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	54	NA	NA	NA	NA	372.40	33.83	338.57
MW-2	2/19/2004	65	<0.50	3.4	1.4	6.5	NA	8.2	NA	NA	NA	NA	372.40	32.68	339.72
MW-2	5/3/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	5.2	NA	NA	NA	NA	372.40	32.07	340.33
MW-2	8/24/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	2.7	NA	NA	NA	NA	372.40	32.44	339.96
MW-2	11/15/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	1.3	NA	NA	NA	NA	372.40	32.95	339.45
MW-2	2/2/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	24	NA	NA	NA	NA	372.40	31.94	340.46
MW-2	5/5/2005	72 f	<0.50	<0.50	<0.50	<1.0	NA	4.9	NA	NA	NA	NA	372.40	31.91	340.49
MW-2	8/5/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	16	NA	NA	NA	NA	372.40	32.15	340.25
MW-2	11/22/2005	840	1	<0.500	<0.500	1	NA	556	NA	NA	NA	NA	372.40	32.31	340.09
MW-2	2/7/2006	3,550	<0.500	<0.500	<0.500	<0.500	NA	2,500	NA	NA	NA	NA	372.40	31.70	340.70
MW-2	5/16/2006	1,400	<5.0	<5.0	<5.0	<10	NA	1,700	NA	NA	NA	NA	372.40	31.38	341.02
MW-2	8/21/2006	1,910	<0.500	<0.500	<0.500	<0.500	NA	2,590	NA	NA	NA	NA	372.40	33.29	339.11
MW-2	11/14/2006	2,300 g	<25	<25	<25	<25	NA	2,500	<25	<25	<25	<1,000	372.40	32.67	339.73
MW-2	2/1/2007	670	<0.50	<0.50	<0.50	<1.0	NA	2,000	NA	NA	NA	NA	372.40	32.13	340.27
MW-2	6/1/2007	500 j,k	<10	<20	<20	<20	NA	2,000	NA	NA	NA	NA	372.40	32.14	340.26
MW-2	8/22/2007	100 j,k	<10	<20	<20	<20	NA	2,400	NA	NA	NA	120 l	372.40	32.93	339.47
MW-2	11/26/2007	1,600 j,k	<10	<20	<20	<20	NA	2,900	<40	<40	<40	<200	372.40	33.44	338.96

TABLE 1
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4212 First Street
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-2	2/19/2008	1,300 j,k	<10	<20	<20	<20	NA	3,300	NA	NA	NA	<200	372.40	31.18	341.22
MW-2	5/23/2008	1,900	<12	<25	<25	<25	NA	1,700	NA	NA	NA	<250	372.40	31.44	340.96
MW-2	8/7/2008	1,700	<10	<20	<20	<20	NA	1,300	NA	NA	NA	<200	372.40	31.94	340.46
MW-2	**12/3/2008**	**3,000**	**<10**	**<20**	**<20**	**<20**	**NA**	**2,900**	**NA**	**NA**	**NA**	**<200**	**372.40**	**32.53**	**339.87**
MW-3	2/3/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	375.05	32.06	342.99
MW-3	2/7/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	375.05	32.57	342.48
MW-3	2/10/2000	180	5.12	<0.500	<0.500	0.714	26.8	21.5a	NA	NA	NA	NA	375.05	32.77	342.28
MW-3	5/17/2000	1,360	414	<5.00	<5.00	17.6	<25.0	NA	NA	NA	NA	NA	375.05	31.00	344.05
MW-3	8/3/2000	<50.0	0.536	<0.500	<0.500	<0.500	22	NA	NA	NA	NA	NA	375.05	31.03	344.02
MW-3	10/31/2000	<50.0	<0.500	<0.500	<0.500	<0.500	31.1	NA	NA	NA	NA	NA	375.05	31.28	343.77
MW-3	3/1/2001	384	172	0.815	<0.500	8	5.16	NA	NA	NA	NA	NA	375.05	31.21	343.84
MW-3	5/30/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	110	NA	NA	NA	NA	375.05	31.02	344.03
MW-3	8/2/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	93	NA	NA	NA	NA	375.05	30.94	344.11
MW-3	12/6/2001	110	<0.50	<0.50	<0.50	2.3	NA	180	NA	NA	NA	NA	375.05	31.28	343.77
MW-3	2/5/2002	<50	0.89	0.6	<0.50	2.1	NA	130	NA	NA	NA	NA	375.05	31.12	343.93
MW-3	6/17/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	72	NA	NA	NA	NA	375.05	31.21	343.84
MW-3	7/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	81	NA	NA	NA	NA	375.05	30.96	344.09
MW-3	11/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	60	NA	NA	NA	NA	375.05	31.44	343.61
MW-3	2/12/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	43	NA	NA	NA	NA	375.05	31.28	343.77
MW-3	5/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	24	NA	NA	NA	NA	375.05	31.20	343.85
MW-3	7/29/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	21	NA	NA	NA	NA	375.05	31.29	343.76
MW-3	11/19/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	8.2	NA	NA	NA	NA	375.05	31.86	343.19
MW-3	2/19/2004	81	0.67	4.4	1.8	8.6	NA	13	NA	NA	NA	NA	375.05	31.66	343.39
MW-3	5/3/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	13	NA	NA	NA	NA	375.05	31.72	343.33
MW-3	8/24/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	10	NA	NA	NA	NA	375.05	32.09	342.96
MW-3	11/15/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	6.6	NA	NA	NA	NA	375.05	31.50	343.55
MW-3	2/2/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	3.1	NA	NA	NA	NA	375.05	31.28	343.77
MW-3	5/5/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	2.3	NA	NA	NA	NA	375.05	31.42	343.63

TABLE 1
WELL CONCENTRATIONS
Shell-branded Service Station
4212 First Street
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-3	8/5/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	2.4	NA	NA	NA	NA	375.05	31.35	343.70
MW-3	11/22/2005	<50	<0.500	<0.500	<0.500	<0.500	NA	3.84	NA	NA	NA	NA	375.05	31.98	343.07
MW-3	2/7/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	375.05	31.24	343.81
MW-3	5/16/2006	<50	<0.50	<0.50	<0.50	<1.0	NA	4.5	NA	NA	NA	NA	375.05	31.37	343.68
MW-3	8/21/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	4.04	NA	NA	NA	NA	375.05	31.95	343.10
MW-3	11/14/2006	<50	<0.50	<0.50	<0.50	<0.50	NA	3.8	<0.50	<0.50	<0.50	<20	375.05	32.24	342.81
MW-3	2/1/2007	<50	<0.50	<0.50	<0.50	<1.0	NA	2.8	NA	NA	NA	NA	375.05	32.17	342.88
MW-3	6/1/2007	<50 j	<0.50	<1.0	<1.0	<1.0	NA	3.1	NA	NA	NA	NA	375.05	31.86	343.19
MW-3	8/22/2007	<50 j	<0.50	<1.0	<1.0	<1.0	NA	4.6	NA	NA	NA	<10	375.05	32.18	342.87
MW-3	11/26/2007	<50 j	<0.50	<1.0	<1.0	<1.0	NA	3.5	<2.0	<2.0	<2.0	<10	375.05	32.69	342.36
MW-3	2/19/2008	<50 j	<0.50	1.2	<1.0	<1.0	NA	2.6	NA	NA	NA	<10	375.05	30.94	344.11
MW-3	5/23/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	3.6	NA	NA	NA	<10	375.05	31.45	343.60
MW-3	8/7/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	3.0	NA	NA	NA	<10	375.05	31.40	343.65
MW-3	**12/3/2008**	**<50**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**2.1**	**NA**	**NA**	**NA**	**<10**	**375.05**	**32.12**	**342.93**
MW-4	9/21/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	372.78	31.58	341.20
MW-4	9/28/2006	11,000	<250	<250	<250	<250	NA	13,000	NA	NA	NA	<10,000	372.78	31.57	341.21
MW-4	11/14/2006	30,000	<250	<250	<250	<250 h,i	NA	14,000	<250	<250	<250	<10,000	372.78	32.11	340.67
MW-4	2/1/2007	6,300	50	<5.0	19	120	NA	14,000	NA	NA	NA	NA	372.78	33.23	339.55
MW-4	6/1/2007	8,200 j	52	<25	26	150	NA	11,000	NA	NA	NA	NA	372.78	31.57	341.21
MW-4	8/22/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	372.78	33.40	339.38
MW-4	11/26/2007	12,000 j	71	<100	<100	<100	NA	20,000	<200	<200	<200	<1,000	372.78	34.74	338.04
MW-4	2/19/2008	13,000 j	<100	<200	<200	<200	NA	18,000	NA	NA	NA	2,900	372.78	29.70	343.08
MW-4	5/23/2008	21,000	<100	<200	<200	<200	NA	16,000	NA	NA	NA	<2,000	372.78	31.67	341.11
MW-4	8/7/2008	27,000	<100	<200	<200	<200	NA	21,000	NA	NA	NA	<2,000	372.78	31.90	340.88
MW-4	**12/3/2008**	**20,000**	**19**	**<25**	**<25**	**29**	**NA**	**21,000**	**NA**	**NA**	**NA**	**2,500**	**372.78**	**34.32**	**338.46**
TB-1	2/12/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-1	2/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.54	NA

TABLE 1
WELL CONCENTRATIONS
Shell-branded Service Station
4212 First Street
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
TB-1	5/14/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	NA	12.31	NA
TB-2	2/12/2003	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-2	2/28/2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.56	NA
TB-2	5/14/2003	Insufficient water		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.54	NA
TB-3	2/12/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-3	2/28/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-3	5/14/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	2/12/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	2/28/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TB-4	5/14/2003	Well dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1
WELL CONCENTRATIONS
Shell-branded Service Station
4212 First Street
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to May 30, 2001, analyzed by EPA Method 8015.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to May 30, 2001, analyzed by EPA Method 8020.
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B
ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B
TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B
TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B
TOC = Top of Casing Elevation
GW = Groundwater
ug/L = Parts per billion
MSL = Mean sea level
ft. = Feet
<n = Below detection limit
NA = Not applicable

TABLE 1
WELL CONCENTRATIONS
Shell-branded Service Station
4212 First Street
Pleasanton, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)

Notes:

a = Sample was analyzed outside of the EPA recommended holding time.

b = Concentration is an estimate value above the linear quantitation range.

c = The result reported was generated out of time. The sample was originally run within hold time, but needed to be re-analyzed.

d = Sample contains discrete peak in addition to gasoline.

e = Quantity of unknown hydrocarbon(s) in sample based on gasoline.

f = The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

g = The result for this hydrocarbon is elevated due to the presence of single analyte peak(s) in the quantitation range.

h = Sample was originally analyzed with a positive result, however the reanalysis did not confirm the presence of the analyte.

i = Confirmatory analysis was past holding time.

j = Analyzed by EPA Method 8015B (M).

k = 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.

l = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

Well MW-1 surveyed on May 4, 1999 by Virgil Chavez Land Surveying of Vallejo, CA.

Site surveyed on March 19, 2000 by Virgil Chavez Land Surveying of Vallejo, CA.

Site surveyed on January 15, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

3Q06 survey data for wells MW-1B and MW-4 provided by Delta Environmental Consultants, Inc. of San Jose, CA.

ATTACHMENT D

HISTORY OF PREVIOUS ENVIRONMENTAL ACTIVITIES

HISTORY OF ENVIRONMENTAL ACTIVITIES

Shell-branded Service Station, 4226 First Street, Pleasanton, CA

1985 Subsurface Investigation: In September 1985, Emcon Associates drilled four exploratory soil borings (S-A, S-B, S-C and S-D) and installed one groundwater monitoring well (S-1) in the vicinity of the former USTs. A maximum concentration of 1,300 milligrams per kilogram (mg/kg) TPH-g was detected in the soil sample collected from boring S-B at approximately 15 feet bgs. Benzene was not detected in any of the soil analyzed.

1986 Underground Storage Tank Removal: In May 1986, four former gasoline USTs were removed from the northeastern portion of the site and the waste oil tank was replaced. Blaine Tech Services, Inc. collected compliance soil samples from beneath each of the USTs. A maximum concentration of 240 mg/kg TPH-g was detected in the soil. The new USTs were installed in the current location in front of the service station building.

1990 Subsurface Investigation: In March 1990, Hart Crowser, Inc. advanced three soil borings (SB-1 through SB-3) in the vicinity of the former gasoline USTs and drilled out Well S-1. The boring for the destruction of Well S-1 was advanced 20 feet beyond the bottom of the well casing, and was designated WA-1. Selected soil samples from all four borings were analyzed for TPH-g and benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds). Maximum concentrations of 380 mg/kg TPH-g and 2.2 mg/kg benzene were detected in the soil sample collected from Boring WA-1 at 30 feet bgs. In December 1990, Hart Crowser, Inc. advanced two additional soil borings (SB-4 and SB-5) down-gradient of the former USTs. Maximum concentrations of 820 mg/kg TPH-g and 65 mg/kg benzene were detected in the soil sample collected from Boring SB-5 at 35 feet bgs.

1995 Dispenser and Piping Replacement: In September 1995, the product piping and dispensers were replaced by Paradiso Mechanical. Weiss Associates collected compliance soil samples and directed over-excavation of hydrocarbon-impacted soil during the replacement activities. A total of approximately 40 cubic yards of soil were excavated from the site. A maximum concentration of 120 mg/kg TPH-g was detected in the soil sample (DP-3) collected from beneath the southern-most product dispenser at approximately 8 feet bgs.

1998 Facility Upgrade: In July 1998, Cambria Environmental Technology, Inc. (Cambria) inspected the waste oil tank remote fill piping during removal activities performed by Gettler-Ryan, Inc. No field indications of petroleum hydrocarbons were observed.

1999 Subsurface Investigation: In April 1999, Cambria advanced two soil borings (SB-6 and SB-7). One of the borings (SB-6) was converted to a groundwater monitoring well and re-designated MW-1. A concentration of 83 mg/kg TPH-g was detected in the soil sample collected from boring SB-7 at a depth of 40 feet bgs. Concentrations of 0.1 mg/kg and 0.0069 mg/kg benzene were detected in the soil samples collected from

boring SB-6/MW-1 at depths of 45 feet and 35 feet, respectively. TPH-g and benzene were not detected above the laboratory detection limits in any of the other soil samples analyzed. During drilling, groundwater was encountered at approximately 42.5 feet bgs, but was not evident in the boring until the hole was left open overnight. TPH-g was detected in the grab groundwater samples collected from borings SB-6/MW-1 and SB-7 at concentrations of 10,000 micrograms per liter (µg/L) and 750 µg/L, respectively; benzene was detected concentrations of 4,500 µg/L and 20 µg/L, respectively. MTBE was not detected above the laboratory detection limits in any of the soil or groundwater analyzed.

2000 Subsurface Investigation: In January 2000, Cambria installed two groundwater monitoring wells (MW-2 and MW-3). Concentrations of TPH-g, BTEX compounds and MTBE were not detected above the laboratory detection limits in any of the eleven soil samples analyzed during the investigation. Both new wells were added to the quarterly groundwater monitoring and sampling program for the site.

2005 UST Upgrades and Backfill Well Abandonment: On January 13, 2005, during UST upgrade activities, Town and Country Contractors, Inc. destroyed four UST backfill wells (TB-1 through TB-4) in accordance with provisions from the Zone 7 Water Agency. Upon completion, a new concrete slab was poured over the entire UST complex and former well locations

***2005 Waste Oil UST Investigation*:** In January 2005, it was determined that an unknown liquid had likely been poured into a port on the waste oil tank that drained directly into the surrounding pea gravel. An Unauthorized Release Report (URR) dated January 19, 2005 was submitted to the Livermore-Pleasanton Fire Department and the ACHCSA. SHELL contractors sealed the UST port with epoxy, opened the tank pit, removed as much of the pea gravel as possible and analyzed a composite sample of the pea gravel for petroleum hydrocarbon parameters. The pea gravel was found to contain 1.4 mg/kg TPH-g, 1,400 mg/kg total petroleum hydrocarbons as diesel (TPH-d) and 10,000 mg/kg total petroleum hydrocarbons as oil and grease. On June 10, 2005, DELTA advanced an exploratory boring (WO-1) adjacent to the waste oil tank. Analysis of the soil samples from WO-1 indicated that the petroleum hydrocarbons introduced to the waste oil tank backfill had not moved into the surrounding soil.

2006 Subsurface Investigation: On August 23 and 24, 2006, DELTA installed two on-site monitoring wells (MW-1B and MW-4). Well MW-1B was installed north of the UST complex to monitor a deeper groundwater bearing zone. Groundwater in the deeper zone was initially encountered at a depth of approximately 97 feet bgs and stabilized at a depth of approximately 83 feet bgs. A maximum concentration of 380 mg/kg TPH-g was detected in the soil sample collected from the boring for Well MW-4 at a depth of 36.5 feet bgs. MTBE was detected in the soil samples collected from the boring for Well MW-4 at concentrations ranging from 0.038 mg/kg to 0.59 mg/kg. TPH-g, BTEX compounds, MTBE and tert butyl alcohol (TBA) were not detected at concentrations above

the laboratory detection limits in any of the soil analyzed from Well MW-1B. Both new wells were added to the quarterly monitoring and sampling program.

On August 15 and September 29, 2006, DELTA advanced exploratory borings at two locations (CPT-2 and CPT-3) using cone penetrometer test (CPT) equipment. Each CPT location consisted of two separate boreholes – one for stratigraphic profiling and a second for collecting discrete soil and groundwater samples. In Boring CPT-2, two depth-discrete groundwater samples were collected from the intervals of 74 to 78 feet bgs and 94 to 98 feet bgs. In Boring CPT-3, one depth-discrete groundwater sample was collected from the interval of 53 to 57 feet bgs. The maximum concentrations of 700 µg/l TPH-g, 79 µg/l MTBE and 2,000 µg/l TBA were detected in the groundwater sample collected from Boring CPT-3.

2007 Subsurface Investigation: On March 27 through 29, 2007, DELTA advanced five exploratory soil borings (B-1 through B-5). A total of thirty-five soil samples (seven from each boring) were collected for chemical analysis. A maximum concentration of 710 mg/kg TPH-g was detected in the soil sample collected from Boring B-3 at a depth of 34.5 feet bgs. MTBE was detected at a maximum concentration of 0.78 mg/kg in the soil sample collected from boring B-1 at a depth of 24.5 bgs. TBA was detected at a maximum concentration of 0.8 mg/kg in the soil sample collected from Boring B-1 at a depth of 19.5 feet bgs.

2007 Aquifer Pump Test and Groundwater Extraction Event: On June 6 and 7, 2007, DELTA performed step drawdown tests in order to estimate the sustainable pumping rate for the upper groundwater zone in Wells MW-1 and MW-4. On June 6, 2007, DELTA also began a long term groundwater extraction event from Well MW-4 in order evaluate its use as a groundwater remediation option. Based on the results of the step drawdown tests, the sustainable pumping rate for the upper water bearing zone (30 to 45 feet bgs) is estimated to be 0.5 gallons per minute (gpm) or less and the horizontal radius of pumping influence is estimated to be at least 35 feet.

ATTACHMENT E

LABORATORY ANALYTICAL REPORTS

Calscience Environmental Laboratories, Inc.

Supplemental Report 1

February 04, 2009

The original report has been revised/corrected.

Rich Garlow
Delta Environmental Consultants, Inc.
312 Piercy RD.
San Jose, CA 95138-1401

Subject: **Calscience Work Order No.: 09-01-0314**
Client Reference: 4212 First St, Pleasanton, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/7/2009 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,

Philip Samelle for

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 01/07/09
Work Order No: 09-01-0314
Preparation: N/A
Method: EPA TO-3M

Project: 4212 First St, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE Influent - Start Test	**09-01-0314-5-A**	**01/05/09 14:15**	**Air**	**GC 13**	**N/A**	**01/07/09 17:15**	**090107L02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	420	3.8	2.5		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**098-01-005-1,630**	**N/A**	**Air**	**GC 13**	**N/A**	**01/07/09 09:15**	**090107L02**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	1.5	1		ppm (v/v)

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.	Date Received:	01/07/09
312 Piercy RD.	Work Order No:	09-01-0314
San Jose, CA 95138-1401	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ppb (v/v)
Project: 4212 First St, Pleasanton, CA		Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE Influent - Start Test	**09-01-0314-5-A**	**01/05/09 14:15**	**Air**	**GC/MS II**	**N/A**	**01/07/09 20:23**	**090107L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	100	50	100		Xylenes (total)	ND	200	100	
Toluene	120	50	100		Methyl-t-Butyl Ether (MTBE)	17000	2000	1000	
Ethylbenzene	ND	50	100		Tert-Butyl Alcohol (TBA)	ND	200	100	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	103	57-129			1,2-Dichloroethane-d4	102	47-137		
Toluene-d8	98	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-09-002-8,047**	**N/A**	**Air**	**GC/MS II**	**N/A**	**01/07/09 10:02**	**090107L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	2.0	1	
Toluene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
Ethylbenzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	102	57-129			1,2-Dichloroethane-d4	103	47-137		
Toluene-d8	99	78-156							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 01/07/09
Work Order No: 09-01-0314
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 4212 First St, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 Before Test	**09-01-0314-1-B**	**01/05/09 10:30**	**Aqueous**	**GC/MS LL**	**01/13/09**	**01/14/09 01:08**	**090113L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	26	12	25		Tert-Butyl Alcohol (TBA)	930	250	25	
1,2-Dibromoethane	ND	25	25		Diisopropyl Ether (DIPE)	ND	50	25	
1,2-Dichloroethane	83	12	25		Ethyl-t-Butyl Ether (ETBE)	ND	50	25	
Ethylbenzene	ND	25	25		Tert-Amyl-Methyl Ether (TAME)	ND	50	25	
Toluene	ND	25	25		Ethanol	ND	2500	25	
Xylenes (total)	ND	25	25		TPPH	2400	1200	25	
Methyl-t-Butyl Ether (MTBE)	2700	25	25						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	74-140		1,2-Dichloroethane-d4	112	74-146	
Toluene-d8	99	88-112		Toluene-d8-TPPH	100	88-112	
1,4-Bromofluorobenzene	93	74-110					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 Before Test	**09-01-0314-2-B**	**01/05/09 12:15**	**Aqueous**	**GC/MS LL**	**01/13/09**	**01/14/09 01:35**	**090113L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	10	20		Tert-Butyl Alcohol (TBA)	480	200	20	
1,2-Dibromoethane	ND	20	20		Diisopropyl Ether (DIPE)	ND	40	20	
1,2-Dichloroethane	ND	10	20		Ethyl-t-Butyl Ether (ETBE)	ND	40	20	
Ethylbenzene	ND	20	20		Tert-Amyl-Methyl Ether (TAME)	ND	40	20	
Toluene	ND	20	20		Ethanol	ND	2000	20	
Xylenes (total)	ND	20	20		TPPH	2000	1000	20	
Methyl-t-Butyl Ether (MTBE)	2300	20	20						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	109	74-140		1,2-Dichloroethane-d4	112	74-146	
Toluene-d8	101	88-112		Toluene-d8-TPPH	102	88-112	
1,4-Bromofluorobenzene	94	74-110					

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.	Date Received: 01/07/09
312 Piercy RD.	Work Order No: 09-01-0314
San Jose, CA 95138-1401	Preparation: EPA 5030B
	Method: LUFT GC/MS / EPA 8260B
	Units: ug/L

Project: 4212 First St, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3 Before Test	**09-01-0314-3-B**	**01/05/09 12:45**	**Aqueous**	**GC/MS LL**	**01/13/09**	**01/14/09 02:02**	**090113L01**

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)	1.6	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	74-140		1,2-Dichloroethane-d4	115	74-146	
Toluene-d8	101	88-112		Toluene-d8-TPPH	102	88-112	
1,4-Bromofluorobenzene	96	74-110					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4 Before Test	**09-01-0314-4-B**	**01/05/09 10:00**	**Aqueous**	**GC/MS LL**	**01/13/09**	**01/14/09 02:30**	**090113L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	50	100		Tert-Butyl Alcohol (TBA)	3800	1000	100	
1,2-Dibromoethane	ND	100	100		Diisopropyl Ether (DIPE)	ND	200	100	
1,2-Dichloroethane	ND	50	100		Ethyl-t-Butyl Ether (ETBE)	ND	200	100	
Ethylbenzene	ND	100	100		Tert-Amyl-Methyl Ether (TAME)	ND	200	100	
Toluene	ND	100	100		Ethanol	ND	10000	100	
Xylenes (total)	ND	100	100		TPPH	13000	5000	100	
Methyl-t-Butyl Ether (MTBE)	16000	100	100						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	74-140		1,2-Dichloroethane-d4	112	74-146	
Toluene-d8	102	88-112		Toluene-d8-TPPH	105	88-112	
1,4-Bromofluorobenzene	95	74-110					

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	01/07/09
312 Piercy RD.		Work Order No:	09-01-0314
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L
Project: 4212 First St, Pleasanton, 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	**099-12-767-841**	**N/A**	**Aqueous**	**GC/MS LL**	**01/13/09**	**01/13/09 21:31**	**090113L01**

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						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	106	74-140			1,2-Dichloroethane-d4	107	74-146		
Toluene-d8	101	88-112			Toluene-d8-TPPH	102	88-112		
1,4-Bromofluorobenzene	94	74-110							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

Delta Environmental Consultants, Inc.	Date Received: 01/07/09
312 Piercy RD.	Work Order No: 09-01-0314
San Jose, CA 95138-1401	Preparation: N/A
	Method: EPA TO-3M

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
09-01-0317-1	Air	GC 13	N/A	01/07/09	090107D02

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	160	180	10	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 01/07/09
Work Order No: 09-01-0314
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-01-0289-6	Aqueous	GC/MS LL	01/13/09	01/13/09	090113S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	83	82	88-118	1	0-7	3
Carbon Tetrachloride	95	91	67-145	4	0-11	
Chlorobenzene	91	88	88-118	4	0-7	
1,2-Dibromoethane	97	96	70-130	1	0-30	
1,2-Dichlorobenzene	91	90	86-116	1	0-8	
1,1-Dichloroethene	94	90	70-130	5	0-25	
Ethylbenzene	90	87	70-130	4	0-30	
Toluene	86	84	87-123	2	0-8	3
Trichloroethene	82	81	79-127	1	0-10	
Vinyl Chloride	85	85	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	86	88	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	86	94	36-168	8	0-45	
Diisopropyl Ether (DIPE)	80	80	81-123	0	0-9	3
Ethyl-t-Butyl Ether (ETBE)	85	85	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	80	82	72-126	2	0-12	
Ethanol	75	89	53-149	17	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 09-01-0314
Preparation: N/A
Method: EPA TO-15

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-09-002-8,047	Air	GC/MS II	N/A	01/07/09	090107L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	101	60-156	3	0-40	
Toluene	104	100	56-146	4	0-43	
Ethylbenzene	107	104	52-154	3	0-38	
p/m-Xylene	101	98	42-156	3	0-41	
o-Xylene	106	104	52-148	2	0-38	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.	Date Received: N/A
312 Piercy RD.	Work Order No: 09-01-0314
San Jose, CA 95138-1401	Preparation: EPA 5030B
	Method: LUFT GC/MS / EPA 8260B

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-841	Aqueous	GC/MS LL	01/13/09	01/13/09	090113L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	85	84	84-120	78-126	1	0-8	
Carbon Tetrachloride	103	101	63-147	49-161	2	0-10	
Chlorobenzene	93	92	89-119	84-124	0	0-7	
1,2-Dibromoethane	97	98	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	93	93	89-119	84-124	0	0-9	
1,1-Dichloroethene	106	96	77-125	69-133	9	0-16	
Ethylbenzene	95	94	80-120	73-127	1	0-20	
Toluene	91	91	83-125	76-132	0	0-9	
Trichloroethene	88	88	89-119	84-124	0	0-8	ME
Vinyl Chloride	100	97	63-135	51-147	3	0-13	
Methyl-t-Butyl Ether (MTBE)	88	88	82-118	76-124	0	0-13	
Tert-Butyl Alcohol (TBA)	103	100	46-154	28-172	3	0-32	
Diisopropyl Ether (DIPE)	84	82	81-123	74-130	3	0-11	
Ethyl-t-Butyl Ether (ETBE)	85	85	74-122	66-130	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	80	79	76-124	68-132	1	0-10	
Ethanol	109	91	60-138	47-151	17	0-32	
TPPH	98	95	65-135	53-147	3	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

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-01-0314

Qualifier	Definition
*	See applicable analysis comment.
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 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 with no further corrective action required.
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.
H	Sample received and/or analyzed past the recommended holding time.
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.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☑ CALSCIENCE ( )
- ☐ SPL ( )
- ☐ XENCO ( )
- ☐ TEST AMERICA ( )
- ☐ OTHER ( )

Please Check Appropriate Box:
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☑ SHELL RETAIL
- ☐ MOTIVA SD&CH
- ☐ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER

Print Bill To Contact Name:

INCIDENT # (ENV SERVICES): 98995840 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 1/6/2009

PAGE: 1 of 1

PO #: SCA4212121 1

SAP #: 1357820

SAMPLING COMPANY: Delta Consultants

LOG CODE:

SITE ADDRESS: Street and City: 4212 1st St; Pleasonton

State: CA

GLOBAL ID NO.: T0600101259

ADDRESS: 312 Piercy Road; San Jose, CA 95138

EDF DELIVERABLE TO (Name, Company, Office Location): Angela Pico

PHONE NO.: 408-826-1862

E-MAIL: Apico@deltaenv.com

CONSULTANT PROJECT NO.:

PROJECT CONTACT (Hardcopy or PDF Report to): Rich Garlow

TELEPHONE: 408-826-1888

FAX: 408-225-8506

E-MAIL: Rgarlow@deltaenv.com

SAMPLER NAME(S) (Print): Cora Olson

LAB USE ONLY: 09-01-0314

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:

SPECIAL INSTRUCTIONS OR NOTES :

Send results to:

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	PRESERVATIVE HNO3/H2SO4	PRESERVATIVE NONE	PRESERVATIVE OTHER	NO. OF CONT.	Water Samples: TPH-G Purgeable (8260B)	BTEX (8260B)	5 Shell Oxygenates (8260B)	EDB (8260B)	1,2-DCA (8260B)	Ethanol (8260B)	Vapor Samples: TPH-G Purgeable (TO-14)	BTEX, TBA, & MTBE (TO-14)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	MW-1 Before Test	1/5/09	10:30		X				5	X	X	X	X	X	X			5 Oxys = MTBE, TBA,
2	MW-2 Before Test	1/5/09	12:15		X				5	X	X	X	X	X	X			DIPE, ETBE, & TAME
3	MW-3 Before Test	1/5/09	12:45		X				5	X	X	X	X	X	X			
4	MW-4 Before Test	1/5/09	10:00		X				5	X	X	X	X	X	X			
5	DPE Influent - Start Test	1/5/09	14:15					X	1							X	X	

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
(Cora Olson)		1/6/08	
GSO 105723750	Wchatt CE	1/7/09	1000

85/2/86 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-01-0314

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Delta Consultants DATE: 1/07/09

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

Temperature 3.2 °C - 0.2 °C (CF) = 3.0 °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:** RS

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** RS

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** AM

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
Volatile analysis container(s) free of headspace	☐	☑	☐
Tedlar bag(s) free of condensation	☑	☐	☐

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh[5] ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☑Tedlar® ☐Summa® ☐_____ **Checked/Labeled by:** AP

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle **Reviewed by:** AM

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH **Scanned by:** AP

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-01-0314

SAMPLE ANOMALY FORM

CHAIN OF CUSTODY (COC):

Comments:

- ☐ **Not relinquished by client** – no signature
- ☐ **No date/time relinquished**
- ☐ **COC not received with samples** – notify PM
- ☐ **Incomplete information regarding samples, tests, etc.**

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ **Samples NOT RECEIVED but listed on COC**
- ☐ **Samples received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **No preservative noted on label** – list test and notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☐ **Sample labels do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and Time Collected**
  - ☐ **Project Information**
  - ☐ **# of containers**
- ☐ **Sample containers compromised** – Note in comments
  - ☐ **Leaking**
  - ☐ **Broken**
  - ☐ **Without Labels**
- ☐ **Other:** _____

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 RSK or CO_2 or DO or Organic Lead Received
-1	A, B, D, E	5						
-2	B, C	5						
-3	A, B, E	5						
-4	A, B, D, E	5						

Comments: _____

Initial / Date AO 1-7-09

Calscience Environmental Laboratories, Inc.

Supplemental Report 1

February 04, 2009

The original report has been revised/corrected.

Rich Garlow
Delta Environmental Consultants, Inc.
312 Piercy RD.
San Jose, CA 95138-1401

Subject: **Calscience Work Order No.: 09-01-0601**
Client Reference: 4212 First St, Pleasanton, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/9/2009 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,

Philip Samelle for

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.	Date Received:	01/09/09
312 Piercy RD.	Work Order No:	09-01-0601
San Jose, CA 95138-1401	Preparation:	N/A
	Method:	EPA TO-3M

Project: 4212 First St, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE Influent-Mid Test	**09-01-0601-5-A**	**01/07/09 07:15**	**Air**	**GC 39**	**N/A**	**01/09/09 14:45**	**090109L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	4900	30	20		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**098-01-005-1,633**	**N/A**	**Air**	**GC 39**	**N/A**	**01/09/09 08:55**	**090109L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	1.5	1		ppm (v/v)

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.	Date Received:	01/09/09
312 Piercy RD.	Work Order No:	09-01-0601
San Jose, CA 95138-1401	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ppb (v/v)

Project: 4212 First St, Pleasanton, CA — Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE Influent-Mid Test	**09-01-0601-5-A**	**01/07/09 07:15**	**Air**	**GC/MS K**	**N/A**	**01/10/09 01:19**	**090109L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	19000	500	1000		Xylenes (total)	16000	2000	1000	
Toluene	1600	500	1000		Methyl-t-Butyl Ether (MTBE)	23000	2000	1000	
Ethylbenzene	12000	500	1000		Tert-Butyl Alcohol (TBA)	2700	2000	1000	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	103	57-129			1,2-Dichloroethane-d4	97	47-137		
Toluene-d8	98	78-156							

Method Blank	**097-09-002-8,055**	**N/A**	**Air**	**GC/MS K**	**N/A**	**01/09/09 09:26**	**090109L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	2.0	1	
Toluene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
Ethylbenzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	96	57-129			1,2-Dichloroethane-d4	94	47-137		
Toluene-d8	97	78-156							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	01/09/09
312 Piercy RD.		Work Order No:	09-01-0601
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L
Project: 4212 First St, Pleasanton, CA			Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 Mid Test	**09-01-0601-1-A**	**01/07/09 07:30**	**Aqueous**	**GC/MS RR**	**01/13/09**	**01/14/09 10:32**	**090113L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	820	10	1	
1,2-Dibromoethane	ND	1.0	1		Diisopropyl Ether (DIPE)	6.1	2.0	1	
1,2-Dichloroethane	66	0.50	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Ethylbenzene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	5.9	2.0	1	
Toluene	ND	1.0	1		Ethanol	ND	100	1	
Xylenes (total)	ND	1.0	1		TPPH	2000	50	1	
Methyl-t-Butyl Ether (MTBE)	3100	50	50						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	103	74-140			1,2-Dichloroethane-d4	108	74-146		
Toluene-d8	99	88-112			Toluene-d8-TPPH	95	88-112		
1,4-Bromofluorobenzene	98	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 Mid Test	**09-01-0601-2-A**	**01/07/09 07:50**	**Aqueous**	**GC/MS RR**	**01/13/09**	**01/14/09 10:56**	**090113L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	55	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)	4.4	2.0	1	
Toluene	ND	1.0	1		Ethanol	ND	100	1	
Xylenes (total)	ND	1.0	1		TPPH	1800	50	1	
Methyl-t-Butyl Ether (MTBE)	2900	50	50						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	102	74-140			1,2-Dichloroethane-d4	109	74-146		
Toluene-d8	100	88-112			Toluene-d8-TPPH	95	88-112		
1,4-Bromofluorobenzene	95	74-110							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 01/09/09
Work Order No: 09-01-0601
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 4212 First St, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3 Mid Test	**09-01-0601-3-A**	**01/07/09 08:20**	**Aqueous**	**GC/MS W**	**01/14/09**	**01/15/09 05:54**	**090114L02**

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)	4.1	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	74-140		1,2-Dichloroethane-d4	107	74-146	
Toluene-d8	101	88-112		Toluene-d8-TPPH	97	88-112	
1,4-Bromofluorobenzene	97	74-110					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4 Mid Test	**09-01-0601-4-A**	**01/07/09 08:20**	**Aqueous**	**GC/MS W**	**01/14/09**	**01/15/09 10:27**	**090114L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	200	0.50	1		Tert-Butyl Alcohol (TBA)	1700	500	50	
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	130	1.0	1		Tert-Amyl-Methyl Ether (TAME)	7.8	2.0	1	
Toluene	4.9	1.0	1		Ethanol	ND	100	1	
Xylenes (total)	280	1.0	1		TPPH	7000	2500	50	
Methyl-t-Butyl Ether (MTBE)	2600	50	50						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	74-140		1,2-Dichloroethane-d4	102	74-146	
Toluene-d8	102	88-112		Toluene-d8-TPPH	97	88-112	
1,4-Bromofluorobenzene	98	74-110					

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.	Date Received:	01/09/09
312 Piercy RD.	Work Order No:	09-01-0601
San Jose, CA 95138-1401	Preparation:	EPA 5030B
	Method:	LUFT GC/MS / EPA 8260B
	Units:	ug/L

Project: 4212 First St, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-845**	**N/A**	**Aqueous**	**GC/MS RR**	**01/13/09**	**01/14/09 03:16**	**090113L02**

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						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	100	74-140		1,2-Dichloroethane-d4	105	74-146	
Toluene-d8	99	88-112		Toluene-d8-TPPH	94	88-112	
1,4-Bromofluorobenzene	98	74-110					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-856**	**N/A**	**Aqueous**	**GC/MS W**	**01/14/09**	**01/15/09 05:24**	**090114L02**

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						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	74-140		1,2-Dichloroethane-d4	108	74-146	
Toluene-d8	100	88-112		Toluene-d8-TPPH	95	88-112	
1,4-Bromofluorobenzene	94	74-110					

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.	Date Received:	01/09/09
312 Piercy RD.	Work Order No:	09-01-0601
San Jose, CA 95138-1401	Preparation:	EPA 5030B
	Method:	LUFT GC/MS / EPA 8260B
	Units:	ug/L

Project: 4212 First St, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-862**	**N/A**	**Aqueous**	**GC/MS RR**	**01/15/09**	**01/15/09 14:47**	**090115L01**

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						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	97	74-140			1,2-Dichloroethane-d4	99	74-146		
Toluene-d8	98	88-112			Toluene-d8-TPPH	93	88-112		
1,4-Bromofluorobenzene	97	74-110							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

Delta Environmental Consultants, Inc.	Date Received:	01/09/09
312 Piercy RD.	Work Order No:	09-01-0601
San Jose, CA 95138-1401	Preparation:	N/A
	Method:	EPA TO-3M

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
09-01-0620-2	Air	GC 39	N/A	01/09/09	090109D01

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	240	240	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.		Date Received:	01/09/09
312 Piercy RD.		Work Order No:	09-01-0601
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B

Project 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-01-0545-4	Aqueous	GC/MS RR	01/13/09	01/14/09	090113S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	84	85	88-118	1	0-7	3
Carbon Tetrachloride	91	93	67-145	2	0-11	
Chlorobenzene	87	88	88-118	1	0-7	3
1,2-Dibromoethane	92	92	70-130	1	0-30	
1,2-Dichlorobenzene	85	88	86-116	4	0-8	3
1,1-Dichloroethene	78	79	70-130	1	0-25	
Ethylbenzene	85	86	70-130	1	0-30	
Toluene	83	84	87-123	0	0-8	3
Trichloroethene	81	82	79-127	1	0-10	
Vinyl Chloride	67	67	69-129	1	0-13	3
Methyl-t-Butyl Ether (MTBE)	87	88	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	90	91	36-168	1	0-45	
Diisopropyl Ether (DIPE)	87	93	81-123	6	0-9	
Ethyl-t-Butyl Ether (ETBE)	90	93	72-126	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	88	89	72-126	2	0-12	
Ethanol	87	88	53-149	1	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 01/09/09
Work Order No: 09-01-0601
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-3 Mid Test	**Aqueous**	**GC/MS W**	**01/14/09**	**01/15/09**	**090114S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	97	97	88-118	0	0-7	
Carbon Tetrachloride	97	99	67-145	2	0-11	
Chlorobenzene	96	98	88-118	2	0-7	
1,2-Dibromoethane	100	97	70-130	2	0-30	
1,2-Dichlorobenzene	100	97	86-116	2	0-8	
1,1-Dichloroethene	101	101	70-130	0	0-25	
Ethylbenzene	97	99	70-130	2	0-30	
Toluene	98	98	87-123	0	0-8	
Trichloroethene	97	96	79-127	1	0-10	
Vinyl Chloride	96	92	69-129	4	0-13	
Methyl-t-Butyl Ether (MTBE)	108	105	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	87	81	36-168	6	0-45	
Diisopropyl Ether (DIPE)	106	107	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	103	104	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	103	100	72-126	3	0-12	
Ethanol	87	83	53-149	4	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.	Date Received: 01/09/09
312 Piercy RD.	Work Order No: 09-01-0601
San Jose, CA 95138-1401	Preparation: EPA 5030B
	Method: LUFT GC/MS / EPA 8260B

Project 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-01-0610-1	Aqueous	GC/MS RR	01/15/09	01/15/09	090115S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	89	86	88-118	3	0-7	3
Carbon Tetrachloride	95	97	67-145	2	0-11	
Chlorobenzene	91	90	88-118	1	0-7	
1,2-Dibromoethane	96	93	70-130	4	0-30	
1,2-Dichlorobenzene	91	91	86-116	0	0-8	
1,1-Dichloroethene	84	81	70-130	4	0-25	
Ethylbenzene	90	89	70-130	1	0-30	
Toluene	89	86	87-123	3	0-8	3
Trichloroethene	86	84	79-127	2	0-10	
Vinyl Chloride	83	81	69-129	2	0-13	
Methyl-t-Butyl Ether (MTBE)	94	92	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	93	91	36-168	2	0-45	
Diisopropyl Ether (DIPE)	87	99	81-123	13	0-9	4
Ethyl-t-Butyl Ether (ETBE)	99	96	72-126	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	94	91	72-126	4	0-12	
Ethanol	88	81	53-149	8	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.		Date Received:	N/A
312 Piercy RD.		Work Order No:	09-01-0601
San Jose, CA 95138-1401		Preparation:	N/A
		Method:	EPA TO-15

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-09-002-8,055	Air	GC/MS K	N/A	01/09/09	090109L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	110	108	60-156	2	0-40	
Toluene	111	108	56-146	3	0-43	
Ethylbenzene	114	112	52-154	2	0-38	
p/m-Xylene	112	109	42-156	2	0-41	
o-Xylene	113	110	52-148	3	0-38	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.	Date Received: N/A
312 Piercy RD.	Work Order No: 09-01-0601
San Jose, CA 95138-1401	Preparation: EPA 5030B
	Method: LUFT GC/MS / EPA 8260B

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-845	Aqueous	GC/MS RR	01/13/09	01/14/09	090113L02

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	87	88	84-120	78-126	2	0-8	
Carbon Tetrachloride	96	97	63-147	49-161	2	0-10	
Chlorobenzene	91	92	89-119	84-124	1	0-7	
1,2-Dibromoethane	94	96	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	91	91	89-119	84-124	0	0-9	
1,1-Dichloroethene	82	83	77-125	69-133	1	0-16	
Ethylbenzene	92	93	80-120	73-127	1	0-20	
Toluene	88	89	83-125	76-132	1	0-9	
Trichloroethene	89	90	89-119	84-124	2	0-8	
Vinyl Chloride	70	70	63-135	51-147	0	0-13	
Methyl-t-Butyl Ether (MTBE)	88	90	82-118	76-124	2	0-13	
Tert-Butyl Alcohol (TBA)	89	87	46-154	28-172	2	0-32	
Diisopropyl Ether (DIPE)	81	91	81-123	74-130	11	0-11	
Ethyl-t-Butyl Ether (ETBE)	90	92	74-122	66-130	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	90	92	76-124	68-132	2	0-10	
Ethanol	87	83	60-138	47-151	5	0-32	
TPPH	91	86	65-135	53-147	6	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

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 09-01-0601
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-856	Aqueous	GC/MS W	01/14/09	01/15/09	090114L02

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	111	107	84-120	78-126	4	0-8	
Carbon Tetrachloride	121	121	63-147	49-161	0	0-10	
Chlorobenzene	105	102	89-119	84-124	3	0-7	
1,2-Dibromoethane	104	98	80-120	73-127	6	0-20	
1,2-Dichlorobenzene	105	99	89-119	84-124	6	0-9	
1,1-Dichloroethene	121	117	77-125	69-133	3	0-16	
Ethylbenzene	113	108	80-120	73-127	5	0-20	
Toluene	112	108	83-125	76-132	4	0-9	
Trichloroethene	115	110	89-119	84-124	4	0-8	
Vinyl Chloride	113	110	63-135	51-147	2	0-13	
Methyl-t-Butyl Ether (MTBE)	108	105	82-118	76-124	3	0-13	
Tert-Butyl Alcohol (TBA)	102	99	46-154	28-172	3	0-32	
Diisopropyl Ether (DIPE)	112	108	81-123	74-130	3	0-11	
Ethyl-t-Butyl Ether (ETBE)	107	104	74-122	66-130	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	104	101	76-124	68-132	4	0-10	
Ethanol	105	95	60-138	47-151	10	0-32	
TPPH	86	89	65-135	53-147	3	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

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 09-01-0601
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-862	Aqueous	GC/MS RR	01/15/09	01/15/09	090115L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	97	98	84-120	78-126	1	0-8	
Carbon Tetrachloride	109	111	63-147	49-161	1	0-10	
Chlorobenzene	101	102	89-119	84-124	1	0-7	
1,2-Dibromoethane	103	105	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	101	103	89-119	84-124	1	0-9	
1,1-Dichloroethene	94	95	77-125	69-133	1	0-16	
Ethylbenzene	102	104	80-120	73-127	2	0-20	
Toluene	98	99	83-125	76-132	1	0-9	
Trichloroethene	98	100	89-119	84-124	2	0-8	
Vinyl Chloride	72	71	63-135	51-147	1	0-13	
Methyl-t-Butyl Ether (MTBE)	99	99	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	93	92	46-154	28-172	0	0-32	
Diisopropyl Ether (DIPE)	107	105	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	106	102	74-122	66-130	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	101	99	76-124	68-132	2	0-10	
Ethanol	86	86	60-138	47-151	0	0-32	
TPPH	85	86	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

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-01-0601

Qualifier	Definition
*	See applicable analysis comment.
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 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 with no further corrective action required.
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.
H	Sample received and/or analyzed past the recommended holding time.
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.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☑ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☑ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☐ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER _____

Print Bill To Contact Name:

INCIDENT # (ENV SERVICES): 9 8 9 9 5 8 4 0 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 1/8/2009

PAGE: 1 of 1

PO #: S C A 4 2 1 2 1 1

SAP #: 1 3 5 7 8 2

SAMPLING COMPANY: Delta Consultants

LOG CODE:

SITE ADDRESS: Street and City: 4212 1st St; Pleasonton

State: CA

GLOBAL ID NO.: T0600101259

ADDRESS: 312 Piercy Road; San Jose, CA 95138

EDF DELIVERABLE TO (Name, Company, Office Location): Angela Pico

PHONE NO.: 408-826-1862

E-MAIL: Apico@deltaenv.com

CONSULTANT PROJECT NO.:

PROJECT CONTACT (Hardcopy or PDF Report to): Rich Garlow

TELEPHONE: 408-826-1880

FAX: 408-225-8506

E-MAIL: Rgarlow@deltaenv.com

SAMPLER NAME(S) (Print): Cora Olson

LAB USE ONLY: 09-01-0601

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:

SPECIAL INSTRUCTIONS OR NOTES :

Send results to:

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	Water Samples: TPH-G Purgeable (8260B)	BTEX (8260B)	5 Shell Oxygenates (8260B)	EDB (8260B)	1,2-DCA (8260B)	Ethanol (8260B)	Vapor Samples: TPH-G Purgeable (TO-14)	BTEX, TBA, & MTBE (TO-14)		TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	MW-1 Mid Test	1/7/09	7:30		X					5	X	X	X	X	X	X				5 Oxys = MTBE, TBA,
2	MW-2 Mid Test	1/7/09	7:50		X					5	X	X	X	X	X	X				DIPE, ETBE, & TAME
3	MW-3 Mid Test	1/7/09	8:20		X					5	X	X	X	X	X	X				
4	MW-4 Mid Test	1/7/09	8:20		X					5	X	X	X	X	X	X				
5	DPE Influent - Mid Test	1/7/09	7:15					X		1							X	X	X	

Relinquished by: (Signature) (Cora Olson)	Received by: (Signature)	Date: 1/8/2009	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) 10574751	Received by: (Signature)	Date: 1/9/09	Time: 1030

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-01-0601

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Delta Cons

DATE: 1/9/09

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

Temperature 3.0 °C - 0.2 °C (CF) = 3.4 °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:** [illegible]

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** [illegible]

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** AD

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	☑	☐	☐
COC document(s) received complete.....	☐	☑	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☐	☑	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Analyses received within holding time.....	☑	☐	☐
Proper preservation noted on COC or sample container.....	☑	☐	☐
Volatile analysis container(s) free of headspace.....	☐	☑	☐
Tedlar bag(s) free of condensation.....	☑	☐	☐

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☑Tedlar® ☐Summa® ☐_____

Checked/Labeled by: AD

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: [illegible]

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Scanned by: [illegible]

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-01-0601

SAMPLE ANOMALY FORM

CHAIN OF CUSTODY (COC):

- ☐ **Not relinquished by client** – no signature
- ☐ **No date/time relinquished**
- ☐ **COC not received with samples** – notify PM
- ☑ **Incomplete information regarding samples, tests, etc.**

Comments:

no matrix on coc (matrix for all samples IS water) (-5 matrix is air)

SAMPLES - CONTAINERS & LABELS:

- ☐ **Samples NOT RECEIVED but listed on COC**
- ☐ **Samples received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **No preservative noted on label** – list test and notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☑ **Sample labels do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☑ **Date and Time Collected**
  - ☐ **Project Information**
  - ☐ **# of containers**
- ☐ **Sample containers compromised** – Note in comments
  - ☐ **Leaking**
  - ☐ **Broken**
  - ☐ **Without Labels**
- ☐ **Other:** _____

Comments:

(-4) MW-4 MID TEST Time per label is 8:50

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 RSK or CO_2 or DO or Organic Lead Received
-1	B,C,D,E	5						
-2	B,C,D,E	5						
-3	B,C,D,E	5						

Comments: _____

Initial / Date AD 1-9-09

Calscience Environmental Laboratories, Inc.

Supplemental Report 1

February 04, 2009

The original report has been revised/corrected.

Rich Garlow
Delta Environmental Consultants, Inc.
312 Piercy RD.
San Jose, CA 95138-1401

Subject: **Calscience Work Order No.: 09-01-0865**
Client Reference: 4212 First St, Pleasanton, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/13/2009 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,

Philip Hamelle for

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	01/13/09
312 Piercy RD.		Work Order No:	09-01-0865
San Jose, CA 95138-1401		Preparation:	N/A
		Method:	EPA TO-3M

Project: 4212 First St, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE Influent-After Test	**09-01-0865-5-A**	**01/10/09 08:00**	**Air**	**GC 13**	**N/A**	**01/13/09 12:33**	**090113L01**

Comment(s): -Sample received after recommended holding time.

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	3600	30	20		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE Influent-8hr Pre Test	**09-01-0865-9-A**	**01/12/09 10:10**	**Air**	**GC 13**	**N/A**	**01/13/09 12:13**	**090113L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	73	1.5	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE Influent-8hr Mid Test	**09-01-0865-13-A**	**01/12/09 12:25**	**Air**	**GC 13**	**N/A**	**01/13/09 12:22**	**090113L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	31	1.5	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**098-01-005-1,638**	**N/A**	**Air**	**GC 13**	**N/A**	**01/13/09 08:40**	**090113L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	1.5	1		ppm (v/v)

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 01/13/09
Work Order No: 09-01-0865
Preparation: N/A
Method: EPA TO-15
Units: ppb (v/v)

Project: 4212 First St, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE Influent-After Test	**09-01-0865-5-A**	**01/10/09 08:00**	**Air**	**GC/MS K**	**N/A**	**01/13/09 21:38**	**090113L01**

Comment(s): -Sample received after recommended holding time.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	22000	500	1000		Xylenes (total)	38000	2000	1000	
Toluene	3100	500	1000		Methyl-t-Butyl Ether (MTBE)	24000	2000	1000	
Ethylbenzene	22000	500	1000		Tert-Butyl Alcohol (TBA)	ND	2000	1000	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	105	57-129			1,2-Dichloroethane-d4	97	47-137		
Toluene-d8	99	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE Influent-8hr Pre Test	**09-01-0865-9-A**	**01/12/09 10:10**	**Air**	**GC/MS K**	**N/A**	**01/14/09 16:39**	**090114L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	79	5.0	10		Xylenes (total)	320	20	10	
Toluene	6.7	5.0	10		Methyl-t-Butyl Ether (MTBE)	500	20	10	
Ethylbenzene	150	5.0	10		Tert-Butyl Alcohol (TBA)	80	20	10	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	98	57-129			1,2-Dichloroethane-d4	94	47-137		
Toluene-d8	101	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE Influent-8hr Mid Test	**09-01-0865-13-A**	**01/12/09 12:25**	**Air**	**GC/MS K**	**N/A**	**01/14/09 18:11**	**090114L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	30	3.1	6.25		Xylenes (total)	170	12	6.25	
Toluene	5.1	3.1	6.25		Methyl-t-Butyl Ether (MTBE)	190	12	6.25	
Ethylbenzene	67	3.1	6.25		Tert-Butyl Alcohol (TBA)	43	12	6.25	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	103	57-129			1,2-Dichloroethane-d4	92	47-137		
Toluene-d8	100	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-09-002-8,070**	**N/A**	**Air**	**GC/MS K**	**N/A**	**01/13/09 14:44**	**090113L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	2.0	1	
Toluene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
Ethylbenzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	97	57-129			1,2-Dichloroethane-d4	99	47-137		
Toluene-d8	100	78-156							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.	Date Received: 01/13/09
312 Piercy RD.	Work Order No: 09-01-0865
San Jose, CA 95138-1401	Preparation: N/A
	Method: EPA TO-15
	Units: ppb (v/v)
Project: 4212 First St, Pleasanton, 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	**097-09-002-8,073**	**N/A**	**Air**	**GC/MS K**	**N/A**	**01/14/09 11:15**	**090114L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	2.0	1	
Toluene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
Ethylbenzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	96	57-129			1,2-Dichloroethane-d4	92	47-137		
Toluene-d8	100	78-156							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	01/13/09
312 Piercy RD.		Work Order No:	09-01-0865
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L
Project: 4212 First St, Pleasanton, CA			Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 After Test	**09-01-0865-1-A**	**01/10/09 08:30**	**Aqueous**	**GC/MS R**	**01/19/09**	**01/19/09 19:45**	**090119L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.5	5		Tert-Butyl Alcohol (TBA)	130	50	5	
1,2-Dibromoethane	ND	5.0	5		Diisopropyl Ether (DIPE)	ND	10	5	
1,2-Dichloroethane	36	2.5	5		Ethyl-t-Butyl Ether (ETBE)	ND	10	5	
Ethylbenzene	ND	5.0	5		Tert-Amyl-Methyl Ether (TAME)	ND	10	5	
Toluene	ND	5.0	5		Ethanol	ND	500	5	
Xylenes (total)	ND	5.0	5		TPPH	1500	250	5	
Methyl-t-Butyl Ether (MTBE)	1300	20	20						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	117	74-140			1,2-Dichloroethane-d4	128	74-146		
Toluene-d8	109	88-112			Toluene-d8-TPPH	108	88-112		
1,4-Bromofluorobenzene	95	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 After Test	**09-01-0865-2-A**	**01/10/09 07:50**	**Aqueous**	**GC/MS R**	**01/19/09**	**01/19/09 20:14**	**090119L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	23	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)	2.5	2.0	1	
Toluene	ND	1.0	1		Ethanol	120	100	1	
Xylenes (total)	ND	1.0	1		TPPH	1200	50	1	
Methyl-t-Butyl Ether (MTBE)	1300	50	50						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	119	74-140			1,2-Dichloroethane-d4	130	74-146		
Toluene-d8	104	88-112			Toluene-d8-TPPH	104	88-112		
1,4-Bromofluorobenzene	94	74-110							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	01/13/09
312 Piercy RD.		Work Order No:	09-01-0865
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L
Project: 4212 First St, Pleasanton, CA			Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-3 After Test	**09-01-0865-3-A**	**01/10/09 08:15**	**Aqueous**	**GC/MS RR**	**01/20/09**	**01/20/09 20:18**	**090120L01**

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	190	100	1	
Xylenes (total)	ND	1.0	1		TPPH	ND	50	1	
Methyl-t-Butyl Ether (MTBE)	5.1	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	101	74-140		1,2-Dichloroethane-d4	111	74-146	
Toluene-d8	101	88-112		Toluene-d8-TPPH	96	88-112	
1,4-Bromofluorobenzene	97	74-110					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4 After Test	**09-01-0865-4-A**	**01/10/09 08:20**	**Aqueous**	**GC/MS R**	**01/19/09**	**01/19/09 21:12**	**090119L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	370	5.0	10		Tert-Butyl Alcohol (TBA)	2100	100	10	
1,2-Dibromoethane	ND	10	10		Diisopropyl Ether (DIPE)	ND	20	10	
1,2-Dichloroethane	ND	5.0	10		Ethyl-t-Butyl Ether (ETBE)	ND	20	10	
Ethylbenzene	160	10	10		Tert-Amyl-Methyl Ether (TAME)	ND	20	10	
Toluene	ND	10	10		Ethanol	ND	1000	10	
Xylenes (total)	430	10	10		TPPH	10000	500	10	
Methyl-t-Butyl Ether (MTBE)	2000	50	50						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	74-140		1,2-Dichloroethane-d4	112	74-146	
Toluene-d8	101	88-112		Toluene-d8-TPPH	100	88-112	
1,4-Bromofluorobenzene	95	74-110					

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 01/13/09
Work Order No: 09-01-0865
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 4212 First St, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 8-hr Pre Test	**09-01-0865-6-A**	**01/12/09 09:50**	**Aqueous**	**GC/MS R**	**01/19/09**	**01/19/09 21:41**	**090119L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	46	5.0	10		Tert-Butyl Alcohol (TBA)	720	100	10	
1,2-Dibromoethane	ND	10	10		Diisopropyl Ether (DIPE)	ND	20	10	
1,2-Dichloroethane	220	5.0	10		Ethyl-t-Butyl Ether (ETBE)	ND	20	10	
Ethylbenzene	ND	10	10		Tert-Amyl-Methyl Ether (TAME)	ND	20	10	
Toluene	ND	10	10		Ethanol	ND	1000	10	
Xylenes (total)	ND	10	10		TPPH	3100	500	10	
Methyl-t-Butyl Ether (MTBE)	2400	50	50						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	112	74-140			1,2-Dichloroethane-d4	111	74-146		
Toluene-d8	103	88-112			Toluene-d8-TPPH	102	88-112		
1,4-Bromofluorobenzene	95	74-110							

MW-2 8-hr Pre Test	**09-01-0865-7-A**	**01/12/09 09:20**	**Aqueous**	**GC/MS R**	**01/19/09**	**01/19/09 22:09**	**090119L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.5	5		Tert-Butyl Alcohol (TBA)	ND	50	5	
1,2-Dibromoethane	ND	5.0	5		Diisopropyl Ether (DIPE)	ND	10	5	
1,2-Dichloroethane	ND	2.5	5		Ethyl-t-Butyl Ether (ETBE)	ND	10	5	
Ethylbenzene	ND	5.0	5		Tert-Amyl-Methyl Ether (TAME)	ND	10	5	
Toluene	ND	5.0	5		Ethanol	ND	500	5	
Xylenes (total)	ND	5.0	5		TPPH	2100	250	5	
Methyl-t-Butyl Ether (MTBE)	2000	50	50						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	120	74-140			1,2-Dichloroethane-d4	124	74-146		
Toluene-d8	103	88-112			Toluene-d8-TPPH	102	88-112		
1,4-Bromofluorobenzene	93	74-110							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	01/13/09
312 Piercy RD.		Work Order No:	09-01-0865
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L
Project: 4212 First St, Pleasanton, CA			Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4 8-hr Pre Test	**09-01-0865-8-A**	**01/12/09 09:20**	**Aqueous**	**GC/MS RR**	**01/20/09**	**01/20/09 21:55**	**090120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	50	100		Tert-Butyl Alcohol (TBA)	1500	1000	100	
1,2-Dibromoethane	ND	100	100		Diisopropyl Ether (DIPE)	ND	200	100	
1,2-Dichloroethane	ND	50	100		Ethyl-t-Butyl Ether (ETBE)	ND	200	100	
Ethylbenzene	ND	100	100		Tert-Amyl-Methyl Ether (TAME)	ND	200	100	
Toluene	ND	100	100		Ethanol	ND	10000	100	
Xylenes (total)	ND	100	100		TPPH	18000	5000	100	
Methyl-t-Butyl Ether (MTBE)	15000	100	100						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	106	74-140			1,2-Dichloroethane-d4	117	74-146		
Toluene-d8	101	88-112			Toluene-d8-TPPH	97	88-112		
1,4-Bromofluorobenzene	97	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 8-hr Mid Test	**09-01-0865-10-B**	**01/12/09 12:00**	**Aqueous**	**GC/MS RR**	**01/20/09**	**01/20/09 22:20**	**090120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	61	12	25		Tert-Butyl Alcohol (TBA)	720	250	25	
1,2-Dibromoethane	ND	25	25		Diisopropyl Ether (DIPE)	ND	50	25	
1,2-Dichloroethane	ND	12	25		Ethyl-t-Butyl Ether (ETBE)	ND	50	25	
Ethylbenzene	ND	25	25		Tert-Amyl-Methyl Ether (TAME)	ND	50	25	
Toluene	ND	25	25		Ethanol	ND	2500	25	
Xylenes (total)	77	25	25		TPPH	5500	1200	25	
Methyl-t-Butyl Ether (MTBE)	4000	25	25						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	74-140			1,2-Dichloroethane-d4	116	74-146		
Toluene-d8	102	88-112			Toluene-d8-TPPH	97	88-112		
1,4-Bromofluorobenzene	97	74-110							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	01/13/09
312 Piercy RD.		Work Order No:	09-01-0865
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L
Project: 4212 First St, Pleasanton, CA			Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 8-hr Mid Test	**09-01-0865-11-A**	**01/12/09 12:10**	**Aqueous**	**GC/MS RR**	**01/20/09**	**01/20/09 22:44**	**090120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	10	20		Tert-Butyl Alcohol (TBA)	ND	200	20	
1,2-Dibromoethane	ND	20	20		Diisopropyl Ether (DIPE)	ND	40	20	
1,2-Dichloroethane	ND	10	20		Ethyl-t-Butyl Ether (ETBE)	ND	40	20	
Ethylbenzene	ND	20	20		Tert-Amyl-Methyl Ether (TAME)	ND	40	20	
Toluene	ND	20	20		Ethanol	ND	2000	20	
Xylenes (total)	ND	20	20		TPPH	2600	1000	20	
Methyl-t-Butyl Ether (MTBE)	2500	20	20						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	106	74-140			1,2-Dichloroethane-d4	119	74-146		
Toluene-d8	101	88-112			Toluene-d8-TPPH	96	88-112		
1,4-Bromofluorobenzene	97	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4 8-hr Mid Test	**09-01-0865-12-A**	**01/12/09 12:20**	**Aqueous**	**GC/MS RR**	**01/20/09**	**01/20/09 23:08**	**090120L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	50	100		Tert-Butyl Alcohol (TBA)	1700	1000	100	
1,2-Dibromoethane	ND	100	100		Diisopropyl Ether (DIPE)	ND	200	100	
1,2-Dichloroethane	ND	50	100		Ethyl-t-Butyl Ether (ETBE)	ND	200	100	
Ethylbenzene	ND	100	100		Tert-Amyl-Methyl Ether (TAME)	ND	200	100	
Toluene	ND	100	100		Ethanol	ND	10000	100	
Xylenes (total)	ND	100	100		TPPH	17000	5000	100	
Methyl-t-Butyl Ether (MTBE)	16000	100	100						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	106	74-140			1,2-Dichloroethane-d4	118	74-146		
Toluene-d8	102	88-112			Toluene-d8-TPPH	97	88-112		
1,4-Bromofluorobenzene	94	74-110							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	01/13/09
312 Piercy RD.		Work Order No:	09-01-0865
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L
Project: 4212 First St, Pleasanton, CA			Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-888**	**N/A**	**Aqueous**	**GC/MS R**	**01/19/09**	**01/19/09 14:26**	**090119L01**

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						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	118	74-140			1,2-Dichloroethane-d4	122	74-146		
Toluene-d8	104	88-112			Toluene-d8-TPPH	103	88-112		
1,4-Bromofluorobenzene	96	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-893**	**N/A**	**Aqueous**	**GC/MS RR**	**01/20/09**	**01/20/09 15:03**	**090120L01**

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						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	104	74-140			1,2-Dichloroethane-d4	114	74-146		
Toluene-d8	100	88-112			Toluene-d8-TPPH	95	88-112		
1,4-Bromofluorobenzene	95	74-110							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

Delta Environmental Consultants, Inc.	Date Received:	01/13/09
312 Piercy RD.	Work Order No:	09-01-0865
San Jose, CA 95138-1401	Preparation:	N/A
	Method:	EPA TO-3M

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
DPE Influent-After Test	**Air**	**GC 13**	**N/A**	**01/13/09**	**090113D01**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	3600	3600	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.	Date Received: 01/13/09
312 Piercy RD.	Work Order No: 09-01-0865
San Jose, CA 95138-1401	Preparation: EPA 5030B
	Method: EPA 8260B

Project 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-01-0832-1	Aqueous	GC/MS R	01/19/09	01/19/09	090119S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	103	96	88-118	7	0-7	
Carbon Tetrachloride	99	98	67-145	2	0-11	
Chlorobenzene	96	93	88-118	4	0-7	
1,2-Dibromoethane	96	93	70-130	3	0-30	
1,2-Dichlorobenzene	97	95	86-116	2	0-8	
1,1-Dichloroethene	96	91	70-130	5	0-25	
Ethylbenzene	101	95	70-130	6	0-30	
Toluene	102	96	87-123	6	0-8	
Trichloroethene	95	90	79-127	5	0-10	
Vinyl Chloride	86	84	69-129	3	0-13	
Methyl-t-Butyl Ether (MTBE)	104	104	71-131	0	0-13	
Tert-Butyl Alcohol (TBA)	83	92	36-168	10	0-45	
Diisopropyl Ether (DIPE)	119	117	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	115	113	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	107	101	72-126	6	0-12	
Ethanol	88	93	53-149	6	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.		Date Received:	01/13/09
312 Piercy RD.		Work Order No:	09-01-0865
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B

Project 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-01-1017-3	**Aqueous**	**GC/MS RR**	**01/20/09**	**01/20/09**	**090120S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	95	95	88-118	0	0-7	
Carbon Tetrachloride	109	110	67-145	1	0-11	
Chlorobenzene	96	95	88-118	1	0-7	
1,2-Dibromoethane	102	98	70-130	4	0-30	
1,2-Dichlorobenzene	95	93	86-116	2	0-8	
1,1-Dichloroethene	98	97	70-130	1	0-25	
Ethylbenzene	99	99	70-130	0	0-30	
Toluene	93	94	87-123	1	0-8	
Trichloroethene	93	95	79-127	2	0-10	
Vinyl Chloride	75	74	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	99	98	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	103	99	36-168	3	0-45	
Diisopropyl Ether (DIPE)	100	105	81-123	5	0-9	
Ethyl-t-Butyl Ether (ETBE)	105	105	72-126	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	96	72-126	2	0-12	
Ethanol	106	107	53-149	1	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 09-01-0865
Preparation: N/A
Method: EPA TO-15

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-09-002-8,070	Air	GC/MS K	N/A	01/13/09	090113L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	104	105	60-156	1	0-40	
Toluene	103	103	56-146	1	0-43	
Ethylbenzene	109	107	52-154	2	0-38	
p/m-Xylene	106	105	42-156	1	0-41	
o-Xylene	108	106	52-148	1	0-38	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.		Date Received:	N/A
312 Piercy RD.		Work Order No:	09-01-0865
San Jose, CA 95138-1401		Preparation:	N/A
		Method:	EPA TO-15

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-09-002-8,073	Air	GC/MS K	N/A	01/14/09	090114L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	111	113	60-156	1	0-40	
Toluene	112	112	56-146	0	0-43	
Ethylbenzene	116	115	52-154	0	0-38	
p/m-Xylene	113	112	42-156	1	0-41	
o-Xylene	114	113	52-148	1	0-38	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.	Date Received:	N/A
312 Piercy RD.	Work Order No:	09-01-0865
San Jose, CA 95138-1401	Preparation:	EPA 5030B
	Method:	LUFT GC/MS / EPA 8260B

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-888	Aqueous	GC/MS R	01/19/09	01/19/09	090119L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	107	108	84-120	78-126	0	0-8	
Carbon Tetrachloride	109	112	63-147	49-161	3	0-10	
Chlorobenzene	100	100	89-119	84-124	0	0-7	
1,2-Dibromoethane	103	98	80-120	73-127	5	0-20	
1,2-Dichlorobenzene	103	103	89-119	84-124	0	0-9	
1,1-Dichloroethene	100	105	77-125	69-133	5	0-16	
Ethylbenzene	107	109	80-120	73-127	2	0-20	
Toluene	109	108	83-125	76-132	1	0-9	
Trichloroethene	102	102	89-119	84-124	1	0-8	
Vinyl Chloride	88	93	63-135	51-147	6	0-13	
Methyl-t-Butyl Ether (MTBE)	116	108	82-118	76-124	7	0-13	
Tert-Butyl Alcohol (TBA)	102	111	46-154	28-172	8	0-32	
Diisopropyl Ether (DIPE)	128	124	81-123	74-130	3	0-11	ME
Ethyl-t-Butyl Ether (ETBE)	121	115	74-122	66-130	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	112	105	76-124	68-132	7	0-10	
Ethanol	102	113	60-138	47-151	10	0-32	
TPPH	97	93	65-135	53-147	4	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

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 09-01-0865
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-893	Aqueous	GC/MS RR	01/20/09	01/20/09	090120L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	99	97	84-120	78-126	1	0-8	
Carbon Tetrachloride	122	121	63-147	49-161	1	0-10	
Chlorobenzene	98	98	89-119	84-124	0	0-7	
1,2-Dibromoethane	102	103	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	97	98	89-119	84-124	1	0-9	
1,1-Dichloroethene	106	104	77-125	69-133	2	0-16	
Ethylbenzene	103	101	80-120	73-127	2	0-20	
Toluene	98	96	83-125	76-132	2	0-9	
Trichloroethene	101	97	89-119	84-124	4	0-8	
Vinyl Chloride	81	80	63-135	51-147	2	0-13	
Methyl-t-Butyl Ether (MTBE)	102	101	82-118	76-124	0	0-13	
Tert-Butyl Alcohol (TBA)	106	103	46-154	28-172	3	0-32	
Diisopropyl Ether (DIPE)	107	103	81-123	74-130	3	0-11	
Ethyl-t-Butyl Ether (ETBE)	104	103	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	98	97	76-124	68-132	2	0-10	
Ethanol	109	112	60-138	47-151	2	0-32	
TPPH	96	94	65-135	53-147	2	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

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-01-0865

Qualifier	Definition
*	See applicable analysis comment.
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 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 with no further corrective action required.
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.
H	Sample received and/or analyzed past the recommended holding time.
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.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☑ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☑ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☐ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER _____

Print Bill To Contact Name:

INCIDENT # (ENV SERVICES): 9 8 9 9 5 8 4 0 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 1/12/2009

PAGE: 1 of 2

PO #: S C A 4 2 1 2 1 1

SAP #: 1 3 5 7 8 2

SAMPLING COMPANY: Delta Consultants

LOG CODE:

SITE ADDRESS: Street and City: 4212 1st St; Pleasonton

State: CA

GLOBAL ID NO.: T0600101259

ADDRESS: 312 Piercy Road; San Jose, CA 95138

EDF DELIVERABLE TO (Name, Company, Office Location): Angela Pico

PHONE NO.: 408-826-1862

E-MAIL: Apico@deltaenv.com

CONSULTANT PROJECT NO.:

PROJECT CONTACT (Hardcopy or PDF Report to): Rich Garlow

SAMPLER NAME(S) (Print): Cora Olson

LAB USE ONLY: 01-0865

TELEPHONE: 408-826-1880 | FAX: 408-225-8506 | E-MAIL: Rgarlow@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:

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES :

Send results to:

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

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	Water Samples: TPH-G Purgeable (8260B)	BTEX (8260B)	5 Shell Oxygenates (8260B)	EDB (8260B)	1,2-DCA (8260B)	Ethanol (8260B)	Vapor Samples: TPH-G Purgeable (TO-14)	BTEX, TBA, & MTBE (TO-14)		TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes
1	MW-1 After Test	1/10/09	8:30		X					5	X	X	X	X	X	X					5 Oxys = MTBE, TBA,
2	MW-2 After Test	1/10/09	7:50		X					5	X	X	X	X	X	X					DIPE, ETBE, & TAME
3	MW-3 After Test	1/10/09	8:15		X					5	X	X	X	X	X	X					
4	MW-4 After Test	1/10/09	8:20		X					5	X	X	X	X	X	X					
5	DPE Influent - After Test	1/10/09	8:00					X		1							X	X	X		

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
(Cora Olson)		1-12-09	
		1/13/09	1000
105723752			

05/2/06 Revision

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☑ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☑ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☐ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER _____

Print Bill To Contact Name:

INCIDENT # (ENV SERVICES): 9 8 9 9 5 8 4 0

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 1/12/2009

PAGE: 2 of 2

PO #: S C A 4 2 1 2 1 1

SAP #: 1 3 5 7 8 2

SAMPLING COMPANY: Delta Consultants

LOG CODE:

SITE ADDRESS: Street and City: 4212 1st St; Pleasonton

State: CA

GLOBAL ID NO.: T0600101259

ADDRESS: 312 Piercy Road; San Jose, CA 95138

EDF DELIVERABLE TO (Name, Company, Office Location): Angela Pico

PHONE NO.: 408-826-1862

E-MAIL: Apico@deltaenv.com

CONSULTANT PROJECT NO.:

PROJECT CONTACT (Hardcopy or PDF Report to): Rich Garlow

TELEPHONE: 408-826-1880

FAX: 408-225-8506

E-MAIL: Rgarlow@deltaenv.com

SAMPLER NAME(S) (Print): Cora Olson

LAB USE ONLY: 01-0865

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:

SPECIAL INSTRUCTIONS OR NOTES :

Send results to:

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	Water Samples: TPH-G Purgeable (8260B)	BTEX (8260B)	6 Shell Oxygenates (8260B)	EDB (8260B)	1,2-DCA (8260B)	Ethanol (8260B)	Vapor Samples: TPH-G Purgeable (TO-14)	BTEX, TBA, & MTBE (TO-14)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
6	MW-1 8-hr PreTest	1/12/09	9:50		X					5	X	X	X	X	X	X			5 Oxys = MTBE, TBA,
7	MW-2 8-hr Pre Test	1/12/09	9:20		X					5	X	X	X	X	X	X			DIPE, ETBE, & TAME
8	MW-4 8-hr Pre Test	1/12/09	9:20		X					5	X	X	X	X	X	X			
9	DPE Influent - 8hr Pre Test	1/12/09	10:10					X		1							X	X	
10	MW-1 8-hr MidTest	1/12/09	12:00		X					5	X	X	X	X	X	X			
11	MW-2 8-hr Mid Test	1/12/09	12:10		X					5	X	X	X	X	X	X			
12	MW-4 8-hr Mid Test	1/12/09	12:20		X					5	X	X	X	X	X	X			
13	DPE Influent - 8hr Mid Test	1/12/09	12:25					X		1							X	X	

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Cora Olson		1-12-09	
		1/13/09	1000

05/2/05 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-C1-0865

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Delta

DATE: 01/13/09

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

Temperature 3.9 °C - 0.2 °C (CF) = 3.7 °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:** JP

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** JP

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** D.L

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☐	☑	☐
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Correct containers and volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
Volatile analysis container(s) free of headspace	☐	☑	☐
Tedlar bag(s) free of condensation	☑	☐	☐

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☑Tedlar® ☐Summa® ☐_____

Checked/Labeled by: D.L

Reviewed by: PB.

Scanned by: D.L

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-01-0865

SAMPLE ANOMALY FORM

CHAIN OF CUSTODY (COC):

- ☐ **Not relinquished by client** – no signature
- ☐ **No date/time relinquished**
- ☐ **COC not received with samples** – notify PM
- ☑ **Incomplete information regarding samples, tests, etc.**

Comments:

(-1) through (-4), (-6) through (-8), (-10) through (-12) matrix is water (-5) + (-9) + (-13) matrix is air

SAMPLES - CONTAINERS & LABELS:

- ☐ **Samples NOT RECEIVED but listed on COC**
- ☐ **Samples received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **No preservative noted on label** – list test and notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☑ **Sample labels do not match COC** – Note in comments
  - ☑ **Sample ID**
  - ☑ **Date and Time Collected**
  - ☐ **Project Information**
  - ☐ **# of containers**
- ☐ **Sample containers compromised** – Note in comments
  - ☐ **Leaking**
  - ☐ **Broken**
  - ☐ **Without Labels**
- ☐ **Other:** _____

Comments:

(-2) MW-2 After test collection time per Label is 8:25
(-4) MW-4 After Test collection time per Label is 8:05
(-10) MW-1 8-hr Mid-Test labeled as MW-1 Mid Test
(-11) MW-2 8hr Mid Test Labeled as MW-2 Mid Test

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 RSK or CO_2 or DO or Organic Lead Received
1,2,9,12	B C E	5	~~7~~	~~B C E~~	~~5~~ (DL)			
3	A B C D E	5	10	C E	5			
4	C	5	11	E	5			
6	B C D E	5						

Comments: _____

Initial / Date D.L 1/13/09

Philip Sanelle

From: Rich Garlow [RGarlow@deltaenv.com]
Sent: Tuesday, January 13, 2009 3:14 PM
To: Philip Sanelle
Subject: RE: Question on COC for site 4212 1st St, Pleasonton

yes

-----Original Message-----
From: Philip Sanelle [mailto:PSanelle@calscience.com]
Sent: Tuesday, January 13, 2009 2:45 PM
To: Rich Garlow
Cc: Jessie Kim
Subject: Question on COC for site 4212 1st St, Pleasonton

Rich,
We received sample 5 (DPE Influent - After Test) past holding time. Do you want us to proceed with testing this sample?

Attached is the COC.
<<09-01-0865.PDF>>
Thank you,
Philip Sanelle
Assistant Project Manager
Calscience Environmental
Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Tel.: 714-895-5494
Fax : 714-894-7501
PSanelle@calscience.com

Calscience
Environmental
Laboratories, Inc.

Supplemental Report 1

February 04, 2009

The original report has been revised/corrected.

Rich Garlow
Delta Environmental Consultants, Inc.
312 Piercy RD.
San Jose, CA 95138-1401

Subject: **Calscience Work Order No.: 09-01-1161**
Client Reference: 4212 First St, Pleasanton, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/15/2009 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,

Philip Hanelle for

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.	Date Received:	01/15/09
312 Piercy RD.	Work Order No:	09-01-1161
San Jose, CA 95138-1401	Preparation:	N/A
	Method:	EPA TO-3M

Project: 4212 First St, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE Influent - 8hr Post Test	**09-01-1161-4-A**	**01/12/09 14:00**	**Air**	**GC 13**	**N/A**	**01/15/09 12:21**	**090115L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	22	1.5	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE Influent - (2nd-8hr) Pre Test	**09-01-1161-8-A**	**01/13/09 09:10**	**Air**	**GC 13**	**N/A**	**01/15/09 12:31**	**090115L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	21	1.5	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE Influent - (2nd-8hr) Mid Test	**09-01-1161-12-A**	**01/13/09 11:15**	**Air**	**GC 13**	**N/A**	**01/15/09 12:40**	**090115L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	91	1.5	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE Influent - (2nd-8hr) Post Test	**09-01-1161-16-A**	**01/13/09 13:00**	**Air**	**GC 13**	**N/A**	**01/15/09 12:50**	**090115L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	120	1.5	1		ppm (v/v)

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**098-01-005-1,642**	**N/A**	**Air**	**GC 13**	**N/A**	**01/15/09 08:36**	**090115L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	1.5	1		ppm (v/v)

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 01/15/09
Work Order No: 09-01-1161
Preparation: N/A
Method: EPA TO-15
Units: ppb (v/v)

Project: 4212 First St, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE Influent - 8hr Post Test	**09-01-1161-4-A**	**01/12/09 14:00**	**Air**	**GC/MS K**	**N/A**	**01/15/09 12:46**	**090115L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	31	2.0	4		Xylenes (total)	160	8.0	4	
Toluene	5.9	2.0	4		Methyl-t-Butyl Ether (MTBE)	200	8.0	4	
Ethylbenzene	66	2.0	4		Tert-Butyl Alcohol (TBA)	56	8.0	4	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	98	57-129			1,2-Dichloroethane-d4	94	47-137		
Toluene-d8	101	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE Influent - (2nd-8hr) Pre Test	**09-01-1161-8-A**	**01/13/09 09:10**	**Air**	**GC/MS K**	**N/A**	**01/15/09 15:53**	**090115L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	19	2.5	5		Xylenes (total)	120	10	5	
Toluene	8.5	2.5	5		Methyl-t-Butyl Ether (MTBE)	920	80	40	
Ethylbenzene	51	2.5	5		Tert-Butyl Alcohol (TBA)	ND	10	5	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	103	57-129			1,2-Dichloroethane-d4	95	47-137		
Toluene-d8	91	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE Influent - (2nd-8hr) Mid Test	**09-01-1161-12-A**	**01/13/09 11:15**	**Air**	**GC/MS K**	**N/A**	**01/15/09 16:40**	**090115L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	19	10	20		Xylenes (total)	160	40	20	
Toluene	12	10	20		Methyl-t-Butyl Ether (MTBE)	7400	400	200	
Ethylbenzene	52	10	20		Tert-Butyl Alcohol (TBA)	ND	40	20	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	102	57-129			1,2-Dichloroethane-d4	92	47-137		
Toluene-d8	85	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
DPE Influent - (2nd-8hr) Post Test	**09-01-1161-16-A**	**01/13/09 13:00**	**Air**	**GC/MS K**	**N/A**	**01/15/09 17:28**	**090115L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	16	12	25		Xylenes (total)	160	50	25	
Toluene	ND	12	25		Methyl-t-Butyl Ether (MTBE)	8100	500	250	
Ethylbenzene	53	12	25		Tert-Butyl Alcohol (TBA)	ND	50	25	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	104	57-129			1,2-Dichloroethane-d4	92	47-137		
Toluene-d8	93	78-156							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.	Date Received:	01/15/09
312 Piercy RD.	Work Order No:	09-01-1161
San Jose, CA 95138-1401	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ppb (v/v)
Project: 4212 First St, Pleasanton, 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	**097-09-002-8,083**	**N/A**	**Air**	**GC/MS K**	**N/A**	**01/15/09 09:42**	**090115L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	2.0	1	
Toluene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
Ethylbenzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	95	57-129			1,2-Dichloroethane-d4	92	47-137		
Toluene-d8	100	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-09-002-8,087**	**N/A**	**Air**	**GC/MS K**	**N/A**	**01/16/09 12:27**	**090116L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	2.0	1	
Toluene	ND	0.50	1		Methyl-t-Butyl Ether (MTBE)	ND	2.0	1	
Ethylbenzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	2.0	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	92	57-129			1,2-Dichloroethane-d4	92	47-137		
Toluene-d8	96	78-156							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.	Date Received:	01/15/09
312 Piercy RD.	Work Order No:	09-01-1161
San Jose, CA 95138-1401	Preparation:	EPA 5030B
	Method:	LUFT GC/MS / EPA 8260B
	Units:	ug/L
Project: 4212 First St, Pleasanton, CA		Page 1 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 8-hr Post Test	**09-01-1161-1-A**	**01/12/09 14:30**	**Aqueous**	**GC/MS R**	**01/23/09**	**01/24/09 04:25**	**090123L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	92	12	25		Tert-Butyl Alcohol (TBA)	660	250	25	
1,2-Dibromoethane	ND	25	25		Diisopropyl Ether (DIPE)	ND	50	25	
1,2-Dichloroethane	ND	12	25		Ethyl-t-Butyl Ether (ETBE)	ND	50	25	
Ethylbenzene	27	25	25		Tert-Amyl-Methyl Ether (TAME)	ND	50	25	
Toluene	ND	25	25		Ethanol	ND	2500	25	
Xylenes (total)	100	25	25		TPPH	6200	1200	25	
Methyl-t-Butyl Ether (MTBE)	3700	25	25						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	98	74-140			1,2-Dichloroethane-d4	99	74-146		
Toluene-d8	98	88-112			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	97	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 8-hr Post Test	**09-01-1161-2-A**	**01/12/09 14:05**	**Aqueous**	**GC/MS R**	**01/23/09**	**01/24/09 04:54**	**090123L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	10		Tert-Butyl Alcohol (TBA)	ND	100	10	
1,2-Dibromoethane	ND	10	10		Diisopropyl Ether (DIPE)	ND	20	10	
1,2-Dichloroethane	ND	5.0	10		Ethyl-t-Butyl Ether (ETBE)	ND	20	10	
Ethylbenzene	ND	10	10		Tert-Amyl-Methyl Ether (TAME)	ND	20	10	
Toluene	ND	10	10		Ethanol	ND	1000	10	
Xylenes (total)	ND	10	10		TPPH	3100	500	10	
Methyl-t-Butyl Ether (MTBE)	2400	25	25						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	74-140			1,2-Dichloroethane-d4	99	74-146		
Toluene-d8	98	88-112			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	96	74-110							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	01/15/09
312 Piercy RD.		Work Order No:	09-01-1161
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L
Project: 4212 First St, Pleasanton, CA			Page 2 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4 8-hr Post Test	09-01-1161-3-A	01/12/09 14:15	Aqueous	GC/MS R	01/23/09	01/24/09 05:22	090123L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	25	50		Tert-Butyl Alcohol (TBA)	1300	500	50	
1,2-Dibromoethane	ND	50	50		Diisopropyl Ether (DIPE)	ND	100	50	
1,2-Dichloroethane	ND	25	50		Ethyl-t-Butyl Ether (ETBE)	ND	100	50	
Ethylbenzene	ND	50	50		Tert-Amyl-Methyl Ether (TAME)	ND	100	50	
Toluene	ND	50	50		Ethanol	ND	5000	50	
Xylenes (total)	ND	50	50		TPPH	17000	2500	50	
Methyl-t-Butyl Ether (MTBE)	13000	200	200						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	74-140			1,2-Dichloroethane-d4	100	74-146		
Toluene-d8	98	88-112			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	97	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 (2nd-8hr) Pre Test	09-01-1161-5-A	01/13/09 09:00	Aqueous	GC/MS R	01/23/09	01/24/09 05:51	090123L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	10	20		Tert-Butyl Alcohol (TBA)	1000	200	20	
1,2-Dibromoethane	ND	20	20		Diisopropyl Ether (DIPE)	ND	40	20	
1,2-Dichloroethane	96	10	20		Ethyl-t-Butyl Ether (ETBE)	ND	40	20	
Ethylbenzene	ND	20	20		Tert-Amyl-Methyl Ether (TAME)	ND	40	20	
Toluene	ND	20	20		Ethanol	ND	2000	20	
Xylenes (total)	ND	20	20		TPPH	3600	1000	20	
Methyl-t-Butyl Ether (MTBE)	2600	20	20						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	101	74-140			1,2-Dichloroethane-d4	100	74-146		
Toluene-d8	98	88-112			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	98	74-110							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	01/15/09
312 Piercy RD.		Work Order No:	09-01-1161
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L
Project: 4212 First St, Pleasanton, CA			Page 3 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 (2nd-8hr) Pre Test	**09-01-1161-6-B**	**01/13/09 08:45**	**Aqueous**	**GC/MS R**	**01/23/09**	**01/24/09 06:20**	**090123L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	10	20		Tert-Butyl Alcohol (TBA)	ND	200	20	
1,2-Dibromoethane	ND	20	20		Diisopropyl Ether (DIPE)	ND	40	20	
1,2-Dichloroethane	ND	10	20		Ethyl-t-Butyl Ether (ETBE)	ND	40	20	
Ethylbenzene	ND	20	20		Tert-Amyl-Methyl Ether (TAME)	ND	40	20	
Toluene	ND	20	20		Ethanol	ND	2000	20	
Xylenes (total)	ND	20	20		TPPH	3300	1000	20	
Methyl-t-Butyl Ether (MTBE)	2700	20	20						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	100	74-140			1,2-Dichloroethane-d4	101	74-146		
Toluene-d8	98	88-112			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	98	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4 (2nd-8hr) Pre Test	**09-01-1161-7-A**	**01/13/09 08:55**	**Aqueous**	**GC/MS R**	**01/23/09**	**01/24/09 06:49**	**090123L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	50	100		Tert-Butyl Alcohol (TBA)	ND	1000	100	
1,2-Dibromoethane	ND	100	100		Diisopropyl Ether (DIPE)	ND	200	100	
1,2-Dichloroethane	ND	50	100		Ethyl-t-Butyl Ether (ETBE)	ND	200	100	
Ethylbenzene	ND	100	100		Tert-Amyl-Methyl Ether (TAME)	ND	200	100	
Toluene	ND	100	100		Ethanol	ND	10000	100	
Xylenes (total)	ND	100	100		TPPH	18000	5000	100	
Methyl-t-Butyl Ether (MTBE)	15000	100	100						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	74-140			1,2-Dichloroethane-d4	100	74-146		
Toluene-d8	98	88-112			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	96	74-110							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	01/15/09
312 Piercy RD.		Work Order No:	09-01-1161
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L
Project: 4212 First St, Pleasanton, CA			Page 4 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 (2nd-8hr) Mid Test	**09-01-1161-9-A**	**01/13/09 11:20**	**Aqueous**	**GC/MS R**	**01/23/09**	**01/24/09 07:17**	**090123L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	12	25		Tert-Butyl Alcohol (TBA)	970	250	25	
1,2-Dibromoethane	ND	25	25		Diisopropyl Ether (DIPE)	ND	50	25	
1,2-Dichloroethane	140	12	25		Ethyl-t-Butyl Ether (ETBE)	ND	50	25	
Ethylbenzene	ND	25	25		Tert-Amyl-Methyl Ether (TAME)	ND	50	25	
Toluene	ND	25	25		Ethanol	ND	2500	25	
Xylenes (total)	ND	25	25		TPPH	3500	1200	25	
Methyl-t-Butyl Ether (MTBE)	2500	25	25						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	74-140			1,2-Dichloroethane-d4	100	74-146		
Toluene-d8	98	88-112			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	98	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 (2nd-8hr) Mid Test	**09-01-1161-10-A**	**01/13/09 11:25**	**Aqueous**	**GC/MS R**	**01/23/09**	**01/24/09 07:46**	**090123L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	21	10	20		Tert-Butyl Alcohol (TBA)	350	200	20	
1,2-Dibromoethane	ND	20	20		Diisopropyl Ether (DIPE)	ND	40	20	
1,2-Dichloroethane	ND	10	20		Ethyl-t-Butyl Ether (ETBE)	ND	40	20	
Ethylbenzene	ND	20	20		Tert-Amyl-Methyl Ether (TAME)	ND	40	20	
Toluene	ND	20	20		Ethanol	ND	2000	20	
Xylenes (total)	23	20	20		TPPH	1300	1000	20	
Methyl-t-Butyl Ether (MTBE)	850	20	20						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	99	74-140			1,2-Dichloroethane-d4	100	74-146		
Toluene-d8	98	88-112			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	97	74-110							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	01/15/09
312 Piercy RD.		Work Order No:	09-01-1161
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L
Project: 4212 First St, Pleasanton, CA			Page 5 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4 (2nd-8hr) Mid Test	**09-01-1161-11-A**	**01/13/09 11:15**	**Aqueous**	**GC/MS R**	**01/23/09**	**01/24/09 08:15**	**090123L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	50	100		Tert-Butyl Alcohol (TBA)	1000	1000	100	
1,2-Dibromoethane	ND	100	100		Diisopropyl Ether (DIPE)	ND	200	100	
1,2-Dichloroethane	ND	50	100		Ethyl-t-Butyl Ether (ETBE)	ND	200	100	
Ethylbenzene	ND	100	100		Tert-Amyl-Methyl Ether (TAME)	ND	200	100	
Toluene	ND	100	100		Ethanol	ND	10000	100	
Xylenes (total)	ND	100	100		TPPH	17000	5000	100	
Methyl-t-Butyl Ether (MTBE)	14000	100	100						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	98	74-140			1,2-Dichloroethane-d4	100	74-146		
Toluene-d8	98	88-112			Toluene-d8-TPPH	98	88-112		
1,4-Bromofluorobenzene	98	74-110							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-1 (2nd-8hr) Post Test	**09-01-1161-13-A**	**01/13/09 13:20**	**Aqueous**	**GC/MS R**	**01/23/09**	**01/24/09 08:44**	**090123L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	10	20		Tert-Butyl Alcohol (TBA)	830	200	20	
1,2-Dibromoethane	ND	20	20		Diisopropyl Ether (DIPE)	ND	40	20	
1,2-Dichloroethane	140	10	20		Ethyl-t-Butyl Ether (ETBE)	ND	40	20	
Ethylbenzene	ND	20	20		Tert-Amyl-Methyl Ether (TAME)	ND	40	20	
Toluene	ND	20	20		Ethanol	ND	2000	20	
Xylenes (total)	ND	20	20		TPPH	2900	1000	20	
Methyl-t-Butyl Ether (MTBE)	2200	20	20						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	101	74-140			1,2-Dichloroethane-d4	102	74-146		
Toluene-d8	99	88-112			Toluene-d8-TPPH	100	88-112		
1,4-Bromofluorobenzene	98	74-110							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.	Date Received: 01/15/09
312 Piercy RD.	Work Order No: 09-01-1161
San Jose, CA 95138-1401	Preparation: EPA 5030B
	Method: LUFT GC/MS / EPA 8260B
	Units: ug/L

Project: 4212 First St, Pleasanton, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-2 (2nd-8hr) Post Test	**09-01-1161-14-A**	**01/13/09 13:30**	**Aqueous**	**GC/MS R**	**01/23/09**	**01/24/09 09:13**	**090123L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	6.7	5.0	10		Tert-Butyl Alcohol (TBA)	250	100	10	
1,2-Dibromoethane	ND	10	10		Diisopropyl Ether (DIPE)	ND	20	10	
1,2-Dichloroethane	ND	5.0	10		Ethyl-t-Butyl Ether (ETBE)	ND	20	10	
Ethylbenzene	ND	10	10		Tert-Amyl-Methyl Ether (TAME)	ND	20	10	
Toluene	ND	10	10		Ethanol	ND	1000	10	
Xylenes (total)	ND	10	10		TPPH	940	500	10	
Methyl-t-Butyl Ether (MTBE)	660	10	10						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	99	74-140		1,2-Dichloroethane-d4	100	74-146	
Toluene-d8	98	88-112		Toluene-d8-TPPH	99	88-112	
1,4-Bromofluorobenzene	97	74-110					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-4 (2nd-8hr) Post Test	**09-01-1161-15-A**	**01/13/09 13:10**	**Aqueous**	**GC/MS R**	**01/23/09**	**01/24/09 09:41**	**090123L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	10	20		Tert-Butyl Alcohol (TBA)	1000	200	20	
1,2-Dibromoethane	ND	20	20		Diisopropyl Ether (DIPE)	ND	40	20	
1,2-Dichloroethane	ND	10	20		Ethyl-t-Butyl Ether (ETBE)	ND	40	20	
Ethylbenzene	ND	20	20		Tert-Amyl-Methyl Ether (TAME)	49	40	20	
Toluene	ND	20	20		Ethanol	ND	2000	20	
Xylenes (total)	ND	20	20		TPPH	15000	1000	20	
Methyl-t-Butyl Ether (MTBE)	15000	200	200						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	100	74-140		1,2-Dichloroethane-d4	101	74-146	
Toluene-d8	98	88-112		Toluene-d8-TPPH	98	88-112	
1,4-Bromofluorobenzene	96	74-110					

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	01/15/09
312 Piercy RD.		Work Order No:	09-01-1161
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L
Project: 4212 First St, Pleasanton, CA			Page 7 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Tank Waste	**09-01-1161-17-A**	**01/13/09 14:00**	**Aqueous**	**GC/MS R**	**01/23/09**	**01/23/09 21:40**	**090123L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	5.0	10		Tert-Butyl Alcohol (TBA)	2000	100	10	
1,2-Dibromoethane	ND	10	10		Diisopropyl Ether (DIPE)	ND	20	10	
1,2-Dichloroethane	ND	5.0	10		Ethyl-t-Butyl Ether (ETBE)	ND	20	10	
Ethylbenzene	ND	10	10		Tert-Amyl-Methyl Ether (TAME)	ND	20	10	
Toluene	ND	10	10		Ethanol	ND	1000	10	
Xylenes (total)	ND	10	10		TPPH	2600	500	10	
Methyl-t-Butyl Ether (MTBE)	2000	10	10						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	95	74-140		1,2-Dichloroethane-d4	99	74-146	
Toluene-d8	98	88-112		Toluene-d8-TPPH	98	88-112	
1,4-Bromofluorobenzene	98	74-110					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-926**	**N/A**	**Aqueous**	**GC/MS R**	**01/23/09**	**01/23/09 17:49**	**090123L01**

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						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	98	74-140		1,2-Dichloroethane-d4	98	74-146	
Toluene-d8	98	88-112		Toluene-d8-TPPH	98	88-112	
1,4-Bromofluorobenzene	101	74-110					

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Delta Environmental Consultants, Inc.		Date Received:	01/15/09
312 Piercy RD.		Work Order No:	09-01-1161
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B
		Units:	ug/L
Project: 4212 First St, Pleasanton, CA			Page 8 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-927**	**N/A**	**Aqueous**	**GC/MS R**	**01/23/09**	**01/24/09 02:58**	**090123L02**

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						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	97	74-140		1,2-Dichloroethane-d4	97	74-146	
Toluene-d8	98	88-112		Toluene-d8-TPPH	98	88-112	
1,4-Bromofluorobenzene	97	74-110					

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-767-930**	**N/A**	**Aqueous**	**GC/MS R**	**01/24/09**	**01/24/09 14:07**	**090124L01**

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						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	100	74-140		1,2-Dichloroethane-d4	99	74-146	
Toluene-d8	99	88-112		Toluene-d8-TPPH	99	88-112	
1,4-Bromofluorobenzene	96	74-110					

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

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

Delta Environmental Consultants, Inc.	Date Received: 01/15/09
312 Piercy RD.	Work Order No: 09-01-1161
San Jose, CA 95138-1401	Preparation: N/A
	Method: EPA TO-3M

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
09-01-1083-20	Air	GC 13	N/A	01/15/09	090115D01

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	600	610	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.		Date Received:	01/15/09
312 Piercy RD.		Work Order No:	09-01-1161
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B

Project 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-01-1018-4	Aqueous	GC/MS R	01/23/09	01/23/09	090123S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	105	88-118	2	0-7	
Carbon Tetrachloride	118	119	67-145	1	0-11	
Chlorobenzene	108	107	88-118	1	0-7	
1,2-Dibromoethane	108	110	70-130	2	0-30	
1,2-Dichlorobenzene	108	106	86-116	2	0-8	
1,1-Dichloroethene	105	103	70-130	2	0-25	
Ethylbenzene	107	105	70-130	2	0-30	
Toluene	106	105	87-123	1	0-8	
Trichloroethene	107	104	79-127	3	0-10	
Vinyl Chloride	94	92	69-129	3	0-13	
Methyl-t-Butyl Ether (MTBE)	106	111	71-131	5	0-13	
Tert-Butyl Alcohol (TBA)	103	106	36-168	3	0-45	
Diisopropyl Ether (DIPE)	117	127	81-123	9	0-9	3
Ethyl-t-Butyl Ether (ETBE)	112	110	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	110	109	72-126	1	0-12	
Ethanol	99	98	53-149	1	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Delta Environmental Consultants, Inc.	Date Received: 01/15/09
312 Piercy RD.	Work Order No: 09-01-1161
San Jose, CA 95138-1401	Preparation: EPA 5030B
	Method: LUFT GC/MS / EPA 8260B

Project 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-01-1297-4	Aqueous	GC/MS R	01/24/09	01/24/09	090124S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	106	108	88-118	2	0-7	
Carbon Tetrachloride	113	121	67-145	7	0-11	
Chlorobenzene	108	109	88-118	1	0-7	
1,2-Dibromoethane	108	111	70-130	3	0-30	
1,2-Dichlorobenzene	108	108	86-116	1	0-8	
1,1-Dichloroethene	108	106	70-130	2	0-25	
Ethylbenzene	106	108	70-130	1	0-30	
Toluene	106	107	87-123	1	0-8	
Trichloroethene	109	107	79-127	1	0-10	
Vinyl Chloride	93	91	69-129	2	0-13	
Methyl-t-Butyl Ether (MTBE)	106	111	71-131	5	0-13	
Tert-Butyl Alcohol (TBA)	98	109	36-168	7	0-45	
Diisopropyl Ether (DIPE)	100	130	81-123	26	0-9	4,3
Ethyl-t-Butyl Ether (ETBE)	98	111	72-126	12	0-12	
Tert-Amyl-Methyl Ether (TAME)	108	108	72-126	0	0-12	
Ethanol	97	103	53-149	6	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.		Date Received:	N/A
312 Piercy RD.		Work Order No:	09-01-1161
San Jose, CA 95138-1401		Preparation:	N/A
		Method:	EPA TO-15

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-09-002-8,083	Air	GC/MS K	N/A	01/15/09	090115L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	109	60-156	2	0-40	
Toluene	106	108	56-146	2	0-43	
Ethylbenzene	109	109	52-154	1	0-38	
p/m-Xylene	105	106	42-156	1	0-41	
o-Xylene	106	107	52-148	1	0-38	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.	Date Received: N/A
312 Piercy RD.	Work Order No: 09-01-1161
San Jose, CA 95138-1401	Preparation: N/A
	Method: EPA TO-15

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-09-002-8,087	Air	GC/MS K	N/A	01/16/09	090116L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	107	107	60-156	0	0-40	
Toluene	107	106	56-146	1	0-43	
Ethylbenzene	110	110	52-154	0	0-38	
p/m-Xylene	107	107	42-156	0	0-41	
o-Xylene	108	109	52-148	0	0-38	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.	Date Received: N/A
312 Piercy RD.	Work Order No: 09-01-1161
San Jose, CA 95138-1401	Preparation: EPA 5030B
	Method: LUFT GC/MS / EPA 8260B

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-926	Aqueous	GC/MS R	01/23/09	01/23/09	090123L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	103	101	84-120	78-126	2	0-8	
Carbon Tetrachloride	116	111	63-147	49-161	4	0-10	
Chlorobenzene	107	105	89-119	84-124	2	0-7	
1,2-Dibromoethane	108	107	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	106	106	89-119	84-124	0	0-9	
1,1-Dichloroethene	102	101	77-125	69-133	1	0-16	
Ethylbenzene	107	104	80-120	73-127	3	0-20	
Toluene	102	102	83-125	76-132	1	0-9	
Trichloroethene	105	105	89-119	84-124	1	0-8	
Vinyl Chloride	105	91	63-135	51-147	14	0-13	X
Methyl-t-Butyl Ether (MTBE)	99	100	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	102	110	46-154	28-172	7	0-32	
Diisopropyl Ether (DIPE)	100	94	81-123	74-130	7	0-11	
Ethyl-t-Butyl Ether (ETBE)	106	106	74-122	66-130	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	105	105	76-124	68-132	0	0-10	
Ethanol	97	101	60-138	47-151	4	0-32	
TPPH	97	105	65-135	53-147	7	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

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.		Date Received:	N/A
312 Piercy RD.		Work Order No:	09-01-1161
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-927	Aqueous	GC/MS R	01/23/09	01/24/09	090123L02

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	102	106	84-120	78-126	4	0-8	
Carbon Tetrachloride	113	120	63-147	49-161	6	0-10	
Chlorobenzene	105	107	89-119	84-124	1	0-7	
1,2-Dibromoethane	106	109	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	104	106	89-119	84-124	1	0-9	
1,1-Dichloroethene	102	104	77-125	69-133	2	0-16	
Ethylbenzene	105	107	80-120	73-127	2	0-20	
Toluene	102	104	83-125	76-132	2	0-9	
Trichloroethene	108	114	89-119	84-124	5	0-8	
Vinyl Chloride	87	93	63-135	51-147	7	0-13	
Methyl-t-Butyl Ether (MTBE)	100	102	82-118	76-124	2	0-13	
Tert-Butyl Alcohol (TBA)	107	109	46-154	28-172	2	0-32	
Diisopropyl Ether (DIPE)	113	114	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	105	108	74-122	66-130	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	103	106	76-124	68-132	3	0-10	
Ethanol	101	103	60-138	47-151	2	0-32	
TPPH	102	108	65-135	53-147	6	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

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Delta Environmental Consultants, Inc.		Date Received:	N/A
312 Piercy RD.		Work Order No:	09-01-1161
San Jose, CA 95138-1401		Preparation:	EPA 5030B
		Method:	LUFT GC/MS / EPA 8260B

Project: 4212 First St, Pleasanton, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-930	Aqueous	GC/MS R	01/24/09	01/24/09	090124L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	109	111	84-120	78-126	2	0-8	
Carbon Tetrachloride	119	122	63-147	49-161	3	0-10	
Chlorobenzene	112	112	89-119	84-124	0	0-7	
1,2-Dibromoethane	108	109	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	110	112	89-119	84-124	2	0-9	
1,1-Dichloroethene	113	114	77-125	69-133	1	0-16	
Ethylbenzene	112	114	80-120	73-127	1	0-20	
Toluene	110	109	83-125	76-132	1	0-9	
Trichloroethene	113	115	89-119	84-124	1	0-8	
Vinyl Chloride	98	98	63-135	51-147	0	0-13	
Methyl-t-Butyl Ether (MTBE)	98	100	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	111	114	46-154	28-172	3	0-32	
Diisopropyl Ether (DIPE)	113	110	81-123	74-130	2	0-11	
Ethyl-t-Butyl Ether (ETBE)	104	104	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	102	102	76-124	68-132	0	0-10	
Ethanol	108	111	60-138	47-151	2	0-32	
TPPH	108	115	65-135	53-147	6	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

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-01-1161

Qualifier	Definition
*	See applicable analysis comment.
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 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 with no further corrective action required.
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.
H	Sample received and/or analyzed past the recommended holding time.
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.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☑ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☑ SHELL RETAIL
- ☐ MOTIVA SO&CH
- ☐ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER _____

Print Bill To Contact Name:

INCIDENT # (ENV SERVICES): 98995840 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 1/14/2009

PAGE: 1 of 2

PO #: SCA4212112

SAP #: 135782

SAMPLING COMPANY: Delta Consultants

LOG CODE:

SITE ADDRESS: Street and City: 4212 1st St; Pleasonton

State: CA

GLOBAL ID NO.: T0600101259

ADDRESS: 312 Piercy Road; San Jose, CA 95138

EDF DELIVERABLE TO (Name, Company, Office Location): Angela Pico

PHONE NO.: 408-826-1862

E-MAIL: Apico@deltaenv.com

CONSULTANT PROJECT NO.:

PROJECT CONTACT (Hardcopy or PDF Report to): Rich Garlow

SAMPLER NAME(S) (Print): Cora Olson

TELEPHONE: 408-826-1880

FAX: 408-225-8506

E-MAIL: Rgarlow@deltaenv.com

LAB USE ONLY: 09-01-1161

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:

SPECIAL INSTRUCTIONS OR NOTES :

Send results to:

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

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	Water Samples: TPH-G Purgeable (8260B)	BTEX (8260B)	5 Shell Oxygenates (8260B)	EDB (8260B)	1,2-DCA (8260B)	Ethanol (8260B)	Vapor Samples: TPH-G Purgeable (TO-14)	BTEX, TBA, & MTBE (TO-14)	TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	MW-1 8-hr Post Test	1/12/09	14:30		X					5	X	X	X	X	X	X			5 Oxys = MTBE, TBA,
2	MW-2 8-hr Post Test	1/12/09	14:05		X					5	X	X	X	X	X	X			DIPE, ETBE, & TAME
3	MW-4 8-hr Post Test	1/12/09	14:15		X					5	X	X	X	X	X	X			
4	DPE Influent - 8hr Post Test	1/12/09	14:00					X		1							X	X	
5	MW-1 (2nd -8hr) PreTest	1/13/09	9:00		X					5	X	X	X	X	X	X			
6	MW-2 (2nd -8hr) Pre Test	1/13/09	8:45		X					5	X	X	X	X	X	X			
7	MW-4 (2nd -8hr) Pre Test	1/13/09	8:55		X					5	X	X	X	X	X	X			
8	DPE Influent - (2nd -8hr) Pre Test	1/13/09	9:10					X		1							X	X	

Relinquished by: (Signature) (Cora Olson)	Received by: (Signature)	Date: 1/14/09	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) GSO# 105723754	Received by: (Signature)	Date: 01/15/09	Time: 10:30

05/2/06 Revision

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
☑ CALSCIENCE ( )
☐ SPL ( )
☐ XENCO ( )
☐ TEST AMERICA ( )
☐ OTHER ( )

Please Check Appropriate Box:
☐ ENV. SERVICES ☐ MOTIVA RETAIL ☑ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name:

INCIDENT # (ENV SERVICES): 98995840
☐ CHECK IF NO INCIDENT # APPLIES

PO #: SCA 4211 2

SAP #: 135782

DATE: 1/14/2009

PAGE: 2 of 2

SAMPLING COMPANY: Delta Consultants
LOG CODE:

SITE ADDRESS: Street and City: 4212 1st St; Pleasonton
State: CA
GLOBAL ID NO.: T0600101259

ADDRESS: 312 Piercy Road; San Jose, CA 95138

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LAB USE ONLY: 09-01-1161

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9	MW-1 (2nd -8hr) MidTest	1/13/09	11:20		X					5	X	X	X	X	X	X			5 Oxys = MTBE, TBA,
10	MW-2 (2nd -8hr) Mid Test	1/13/09	11:25		X					5	X	X	X	X	X	X			DIPE, ETBE, & TAME
11	MW-4 (2nd -8hr) Mid Test	1/13/09	11:15		X					5	X	X	X	X	X	X			
12	DPE Influent - (2nd -8hr) Mid Test	1/13/09	11:15					X		1							X	X	
13	MW-1 (2nd -8hr) Post Test	1/13/09	13:20		X					5	X	X	X	X	X	X			
14	MW-2 (2nd -8hr) Post Test	1/13/09	13:30		X					5	X	X	X	X	X	X			
15	MW-4 (2nd -8hr) Post Test	1/13/09	13:10		X					5	X	X	X	X	X	X			
16	DPE Influent - (2nd -8hr) Post Test	1/13/09	13:00					X		1							X	X	
17	Tank Waste	1/13/09	14:00		X					5	X	X	X	X	X	X			

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
(Cora Olsan)		1/14/09	
GSO # 105723754	Greg R. - CEL	01/15/09	10:30

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-01-1161

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: DELTA CONSULTANTS DATE: 01/15/09

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

Temperature 2.6 °C - 0.2 °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:** PS

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** PS

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** AM

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	☑	☐	☐
COC document(s) received complete.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Analyses received within holding time.....	☑	☐	☐
Proper preservation noted on COC or sample container.....	☑	☐	☐
Volatile analysis container(s) free of headspace.....	☐	☑	☐
Tedlar bag(s) free of condensation.....	☑	☐	☐

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☐1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☑Tedlar® ☐Summa® ☐_____ **Checked/Labeled by:** AM

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle **Reviewed by:** PS

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH **Scanned by:** AM

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-01-1161

SAMPLE ANOMALY FORM

CHAIN OF CUSTODY (COC):

Comments:

- ☐ **Not relinquished by client** – no signature
- ☐ **No date/time relinquished**
- ☐ **COC not received with samples** – notify PM
- ☐ **Incomplete information regarding samples, tests, etc.**

SAMPLES - CONTAINERS & LABELS:

Comments:

- ☐ **Samples NOT RECEIVED but listed on COC**
- ☐ **Samples received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **No preservative noted on label** – list test and notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☐ **Sample labels do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and Time Collected**
  - ☐ **Project Information**
  - ☐ **# of containers**
- ☐ **Sample containers compromised** – Note in comments
  - ☐ **Leaking**
  - ☐ **Broken**
  - ☐ **Without Labels**
- ☐ **Other:** _____

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 RSK or CO_2 or DO or Organic Lead Received
5	D/E	6	11	B/C/D/E	6			
6	E	6	13	A/B/C/D/E	6			
7	D/E	6	14	D/E	6			
9,17	C/D/E	6	15	B/C/D/E	6			

Comments: _____

Initial / Date RM 1/15/09