

RECEIVED

1:16 pm, Jun 27, 2007

Alameda County
Environmental Health

June 25, 2007
Project Number: SJ42-26F-X
SAP Number: 135782

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



**Re: Site Investigation and
Interim Remedial Action Report
Shell-branded Service Station
4226 First Street
Pleasanton, California**

Dear Mr. Wickham:

Delta Environmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), presents the results of a soil investigation and groundwater extraction event performed as part of interim remediation at the site referenced above (Figure 1). Soil borings were drilled to collect soil samples from potential petroleum hydrocarbons and fuel oxygenate source areas in the northern portion of the site. The groundwater extraction event was performed to provide temporary migration control and to evaluate extraction as a possible method for groundwater remediation.

The site activities were proposed in the *Interim Remedial Action Plan*, prepared by Delta in January 2007. The plan was approved by the Alameda County Health Care Services Agency (ACHCA) in a letter to Shell dated February 2, 2007 (Attachment A). This report describes the field activities completed by Delta, presents the associated field and laboratory data, and provides recommendations for future site activities.

BACKGROUND

Site history is detailed in depth in Delta's Electronic Site Conceptual Model submitted to the ACHCA on February 27, 2006. The service station is not currently active.

The upper groundwater zone is monitored by Wells MW-1 through MW-4 (Figure 2). The deeper zone is monitored by Well MW-1B. Well construction details are shown on Table 1. The primary constituents of concern are methyl tert-butyl ether (MTBE) and tert-butyl alcohol (TBA). The following is a summary of MTBE concentrations in site wells for the past four quarterly groundwater sampling events:

Well	8/21/06	11/14/06	2/1/07	6/1/07
MW-1	1,960	2,100	2,300	2,200
MW-1B	21	310	150	74
MW-2	2,590	2,500	2,000	2,000
MW-3	4.04	3.8	2.8	3.1
MW-4	13,000	14,000	14,000	11,000

[Note : All MTBE concentrations in micrograms per liter ($\mu\text{g/l}$)]

The laboratory reporting limits for TBA have been as high as 10,000 $\mu\text{g/l}$ due to elevated MTBE concentrations in Well MW-4. TBA was detected in the 57-foot sample from a 2006 CPT boring at 2,000 $\mu\text{g/l}$. TBA has historically only been analyzed annually but has now been added by Shell to the quarterly monitoring program.

SOIL BORING INVESTIGATION

In March 2003, Delta drilled five soil borings (B-1 through B-4) in the area of the former and existing USTs. Historic soil analytical data is provided as Attachment C. The highest concentrations of petroleum hydrocarbons and MTBE have historically been detected in soil samples from near the northern end of the former USTs (borings SB-5 and S-B, Well MW-4 – Figure 2).

PREFIELD ACTIVITIES

Prior to drilling, Delta marked the locations of all soil boring locations and contacted Underground Services Alert 48 hours prior to drilling. In addition, a private utility locator was retained to perform a geophysical survey of all boring locations. Each location was then air-knifed to a depth of approximately seven feet to minimize the possibility of encountering underground utilities during drilling. Delta obtained all required drilling permits from the Zone 7 Water Agency (Attachment D).

BORINGS

Borings B-1 through B-5 were drilled on March 27 through 29, 2007. The total depth of each boring was approximately 35 feet bgs. The borings were advanced using a hollow-stem auger drill rig operated by Gregg

Drilling and Testing, Inc. (License C57-485165). Soil samples were collected with a split-spoon sampler equipped with brass liners at 5-foot intervals beginning at 10 feet bg. Soil samples were also collected from each boring at 5 feet bgs using a hand-auger. A Delta field geologist carefully examined the soil core samples as they were collected. Soils were classified based on the Unified Soil Classification System using the American Society for Testing and Materials (ASTM) Method D-2487 published in May 2000. Borings encountered primarily clayey sand with occasional clay beds. Groundwater was encountered only in boring B-1 (34 to 35 feet bgs). All other borings were dry. Boring logs are provided in Attachment B.

SOIL ANALYSIS

A total of thirty-five soil samples (seven from each boring) were collected for chemical analysis. Soil samples were submitted to Test America Analytical Testing Corporation in Sacramento, California for analysis of total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and xylene (BTEX compounds), MTBE, and TBA by Method 8260B. Laboratory certified analytical results and chain-of-custody documentation are included as Attachment E. Soil analytical data is summarized on Table 2.

The primary constituents detected were TPH-g, MTBE, and TBA (Table 2). TPH-g was above 100 milligrams per kilogram (mg/kg) in only one sample (B-3 at 34.5 feet). MTBE and TBA were detected in all borings. MTBE and TBA were typically detected in soil samples collected below a depth 14.5 feet bgs. MTBE was detected at concentrations ranging from 0.0063 milligrams per kilogram (mg/kg) to 0.45 mg/kg. TBA was detected at concentrations ranging from 0.021 to 0.8 mg/kg. The San Francisco Bay Area Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for MTBE and TBA in soil are 0.023 mg/kg and 0.073 mg/kg, respectively. The highest concentrations of MTBE and TBA were detected in the soil samples from the bottom of the borings near the top of the saturated zone.

SOIL DISPOSAL

Soil material generated from borings was placed in 55-gallon drums for temporary storage and then removed off site by PSC for proper disposal.

GROUNDWATER EXTRACTION

Delta performed step drawdown tests in order to estimate the sustainable pumping rate for the upper groundwater zone. Delta then began a long term groundwater extraction event in order evaluate its use as a groundwater remediation option.

Step Drawdown Tests

Step drawdown tests were conducted to determine the maximum sustainable pumping rates using Wells MW-1 and MW-4. Water levels in the wells were measured during pumping using an electronic water level meter.

Well MW-4

The step drawdown test was initiated at Well MW-4 at 2:00 pm on June 6, 2007. Groundwater was extracted using an electrical submersible pump. The initial depth to water was 33.40 feet below top of casing (btoc). The well was pumped at increasing extraction rates until 60% of available drawdown was reached. The available drawdown is determined by subtracting the initial water level from the level of the top of the submersible pump (45 feet minus 33.4 feet = 11.6 feet). The depth to water in the well at 60% drawdown was 40.4 feet btoc.

Pumping commenced at 0.5 gallons per minute (gpm) but was quickly adjusted to 0.1 gpm due to the rapid decrease of water level. The well was then pumped at 0.1, 0.15, 0.2, 0.25, 0.3, and 0.4 gpm. The well was pumped for approximately 40 minutes at each step. A target depth of approximately 40 feet btoc was reached at a constant pumping rate of 0.4 gpm. A graph of water level versus time for the step drawdown test is contained in Attachment F.

Water level data from the step drawdown test was analyzed using the AquiferTest software produced by Waterloo Hydrogeologic. The data was analyzed by the Cooper-Jacob Time Drawdown method. The computer output report is contained in Attachment F. A hydraulic conductivity of 3.17×10^{-5} centimeters per second (cm/s) was calculated using the average pumping rate during the test of 0.28 gpm. This value is typical of silt (Freeze and Cherry, 1979) and is consistent with the description of soils on boring logs.

Well MW-1

The step drawdown test was initiated at Well MW-1 on June 7, 2007. The initial depth to water was 33.40 feet btoc. The well was pumped at increasing extraction rates until 60% of available drawdown was reached. The available drawdown is determined by subtracting the initial water level from the level of the top of the submersible pump (55 feet minus 33.4 feet = 21.6 feet). The depth to water in the well at 60% drawdown was 46.4 feet btoc.

Pumping was initiated at 0.25 gpm then was increased to 0.33, 0.50, and 0.55 gpm. The well was pumped for approximately one hour at each step. A target depth of approximately 46 feet btoc was reached at a pumping rate of 0.55 gpm. A graph of water level versus time for the step drawdown test is contained in Attachment F.

Water level data from the step drawdown test was analyzed using the AquiferTest software produced by Waterloo Hydrogeologic. The data was analyzed by the Cooper-Jacob Time Drawdown method. The computer output report is contained in Attachment F. A hydraulic conductivity of 3.59×10^{-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).

Groundwater Extraction Event

Delta, on June 6, 2007, began a groundwater extraction event using well MW-4. Well MW-4 contains the highest concentrations of MTBE and TBA. The electrical submersible pump was set at a constant rate of 0.40 gpm. Extracted groundwater is piped to an approximately 20,000-gallon storage tank for later removal

and transported off-site to a licensed disposal facility. Delta, at the request of ACHCA, is performing a site inspection visit twice a week during the extraction event. Delta's work plan stated that approximately 48,000-gallons of water would be extracted from Well MW-4. The proposed volume was based on an anticipated pumping rate of approximately 1.0 gpm. At a pumping rate of 0.40 gpm, approximately 30 days will be required to extract 20,000 gallons. Delta and Shell will evaluate the need to extend the test past 30 days after the filling of the first storage tank.

Water levels in shallow Well MW-2 and deep Well MW-1B were monitored during the first 6 days of extraction using pressure transducers. Well MW-2 is located approximately 70 feet upgradient of extraction Well MW-4. Well MW-1B is located approximately 35 feet cross-gradient of Well MW-4. During the 6 day monitoring period, the water level in Well MW-2 slowly rose approximately 0.9 feet. The rise in water level is attributed to some non-pumping influence. During the same period, the water level in deep Well MW-1B dropped by 2.45 feet.

Groundwater Sampling and Analysis

Water samples were collected at the start and end of the step drawdown pumping tests for Wells MW-1 and MW-4 (June 6 and 7, 2007). Samples were analyzed for TPH-g, BTEX compounds, MTBE, and TBA by EPA Method 8260B. The laboratory report and chain of custody documentation are provided as Attachment G. Results are summarized below:

Well MW-4	6/6/07 14:00 (start)	6/6/07 18:30 (end)	6/12/07 (Day 6)
MTBE	19,000	15,000	8,800
TBA	8,200	6,600	1,400

Well MW-1	6/7/07 13:00 (start)	6/7/07 17:20 (end)
MTBE	2,400	1,400
TBA	1,400	1,400

Groundwater samples are being collected from Well MW-4 discharge on a weekly basis. The results from the first weekly sample (June 12) showed a significant reduction in MTBE and TBA concentrations. A follow up groundwater sample will be collected approximately one week after termination of pumping.

CONCLUSIONS

Delta concludes:

- MTBE and TBA are contained in soils beneath the northern portion of the site from approximately 20 feet bgs to the top of the saturated zone at a depth of approximately 35 feet bgs. Concentrations exceeded the RWQCB ESLs for soils at depths of greater than 3 meters overlying useable groundwater.
- MTBE and TBA in the vadose zone are retained in clay, silt, silty sand (30 to 40% fines), clayey sand (20 to 35% fines), and clayey gravel (15 to 30% fines). Remediation of the vadose zone will be difficult due to the high percentages of silt and clay.
- Sustainable pumping rate for the upper water bearing zone (30 to 45 feet bgs) is 0.5 gpm or less.
- The horizontal radius of pumping influence is at least 35 feet.
- The upper and lower water bearing zones are hydraulically connected. The natural vertical hydraulic gradient is downward from upper to lower water-bearing zone. MTBE is detected in deep Well MW-1B at 74 µg/l.

RECOMMENDATIONS

Delta recommends:

- Focusing remediation efforts on the upper groundwater zone which contains MTBE concentrations of greater than 8,000 µg/l and TBA at concentrations greater than 1,000 µg/l.
- Providing horizontal and vertical MTBE and TBA groundwater migration control in the northern portion of the site.
- Continue groundwater extraction to accomplish migration control and to provide mass reduction in groundwater.
- Continue quarterly groundwater monitoring with the addition of TBA.

Delta will provide ACHCA with additional extraction test analytical data within 30 days of the date of this report.


REMARKS

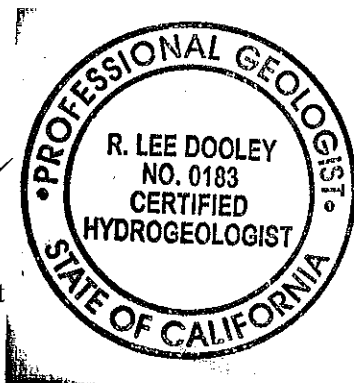
The conclusions and recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. 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 report.

If you have any questions or comments regarding this report, please call Lee Dooley at (408) 826-1880.

Sincerely,
Delta Consultants, Inc.

Abhik Dutta
Staff Geologist


R. Lee Dooley
Senior Hydrogeologist
CHG 0183



Attachments: Table 1 – Well Construction Details
Table 2 – Summary of Soil Analytical Data

Figure 1 – Site Location Map
Figure 2 – Site Map

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Attachment A – ACHS Letter Dated February 2, 2007

Attachment B – Boring Logs

Attachment C – Historic Soil Analytical Data

Attachment D – Boring Permits

Attachment E – Certified Analytical Report and Chain of Custody Documents – Soil

Attachment F – Pumping Test Data

Attachment G – Certified Analytical Report and Chain of Custody Documents – Water

cc: Denis Brown, Shell Oil Products US, Carson
Douglas and Mary Safreno, 1627 Vineyard Avenue, Pleasanton, CA 94566-6389
Colleen Winey, Zone 7 Water Agency, 100 North Canyons Parkway, Livermore, CA 94551
Danielle Stefani, Livermore-Pleasanton Fire Department, 3560 Nevada Street, Pleasanton, CA 94566

Table 1
Well Construction Details
Shell-branded Service Station
4226 First Street, Pleasanton, California

Well	Date Installed	Diameter (inches)	Depth (feet)	Sand Pack (feet)	Screened Interval (feet)
MW-1	04/08/99	2	58	35 to 58	38 to 58
MW-1B	08/23/06	4	108	98 to 108	100 to 108
MW-2	01/18/00	4	46	24 to 46	26 to 46
MW-3	01/18/00	4	35	18 to 35	20 to 35
MW-4	08/24/06	4	47	35 to 47	37 to 47

Table 2
Summary of Soil Analytical Data
Shell Service Station
4226 1st Street, Pleasanton, California

Sample Location	Sample Name	Sample Depth (feet)	Sample Date	TPH-g	Benzene	Ethyl-benzene	Toluene	Total Xylenes	MTBE	TBA
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				EPA 8015 Mod.	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
B-1	B-1 d 5	5	03/27/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-1	B-1 d 9.5	9.5	03/29/07	5.4	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-1	B-1 d 14.5	14.5	03/29/07	0.13 QP	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.046	0.068
B-1	B-1 d 19.5	19.5	03/29/07	0.57 QP	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.01	0.6	0.8
B-1	B-1 d 24.5	24.5	03/29/07	0.92 QP	ND< 0.05	ND< 0.05	ND< 0.05	ND< 0.05	0.78	0.2
B-1	B-1 d 29.5	29.5	03/29/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.059	ND< 0.02
B-1	B-1 d 34.5	34.5	03/29/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.12	0.033
B-2	B-2 d 5	5	03/27/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-2	B-2 d 9.5	9.5	03/29/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-2	B-2 d 14.5	14.5	03/29/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-2	B-2 d 19.5	19.5	03/29/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.082
B-2	B-2 d 24.5	24.5	03/29/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.11	0.03
B-2	B-2 d 29	29	03/29/07	0.25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.22	0.14
B-2	B-2 d 34.5	34.5	03/29/07	0.32 QP	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.45	0.75
B-3	B-3 d 5	5	03/27/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-3	B-3 d 9.5	9.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-3	B-3 d 14.5	14.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.08	ND< 0.02
B-3	B-3 d 19.5	19.5	03/28/07	0.11 QP	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.14	0.021
B-3	B-3 d 24.5	24.5	03/28/07	0.45	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.083	ND< 0.02
B-3	B-3 d 29	29	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.016	0.073
B-3	B-3 d 34.5	34.5	03/28/07	710	0.096	2.3	ND< 0.05	16	ND< 0.025	ND< 5
B-4	B-4 d 5	5	03/27/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-4	B-4 d 9.5	9.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-4	B-4 d 14.5	14.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-4	B-4 d 20	20	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.04	ND< 0.02
B-4	B-4 d 24.5	24.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.026	ND< 0.02
B-4	B-4 d 29.5	29.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.0063	0.071
B-4	B-4 d 35	35	03/28/07	0.54 QP	ND< 0.025	ND< 0.025	ND< 0.025	ND< 0.025	0.8	0.63
B-5	B-5 d 5	5	03/27/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-5	B-5 d 10.5	10.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-5	B-5 d 15.5	15.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-5	B-5 d 20.5	20.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.0054	ND< 0.02
B-5	B-5 d 25.5	25.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-5	B-5 d 30	30	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.065	0.1
B-5	B-5 d 35	35	03/28/07	ND< 0.5	ND< 0.025	ND< 0.025	ND< 0.025	ND< 0.025	0.3	0.46
Environmental Screening Levels									0.023	0.073

Notes:

mg/kg - milligrams per kilogram

ND - Not detected above laboratory detection limits

NA - Not analyzed

TPH-g - Total Petroleum Hydrocarbons as gasoline

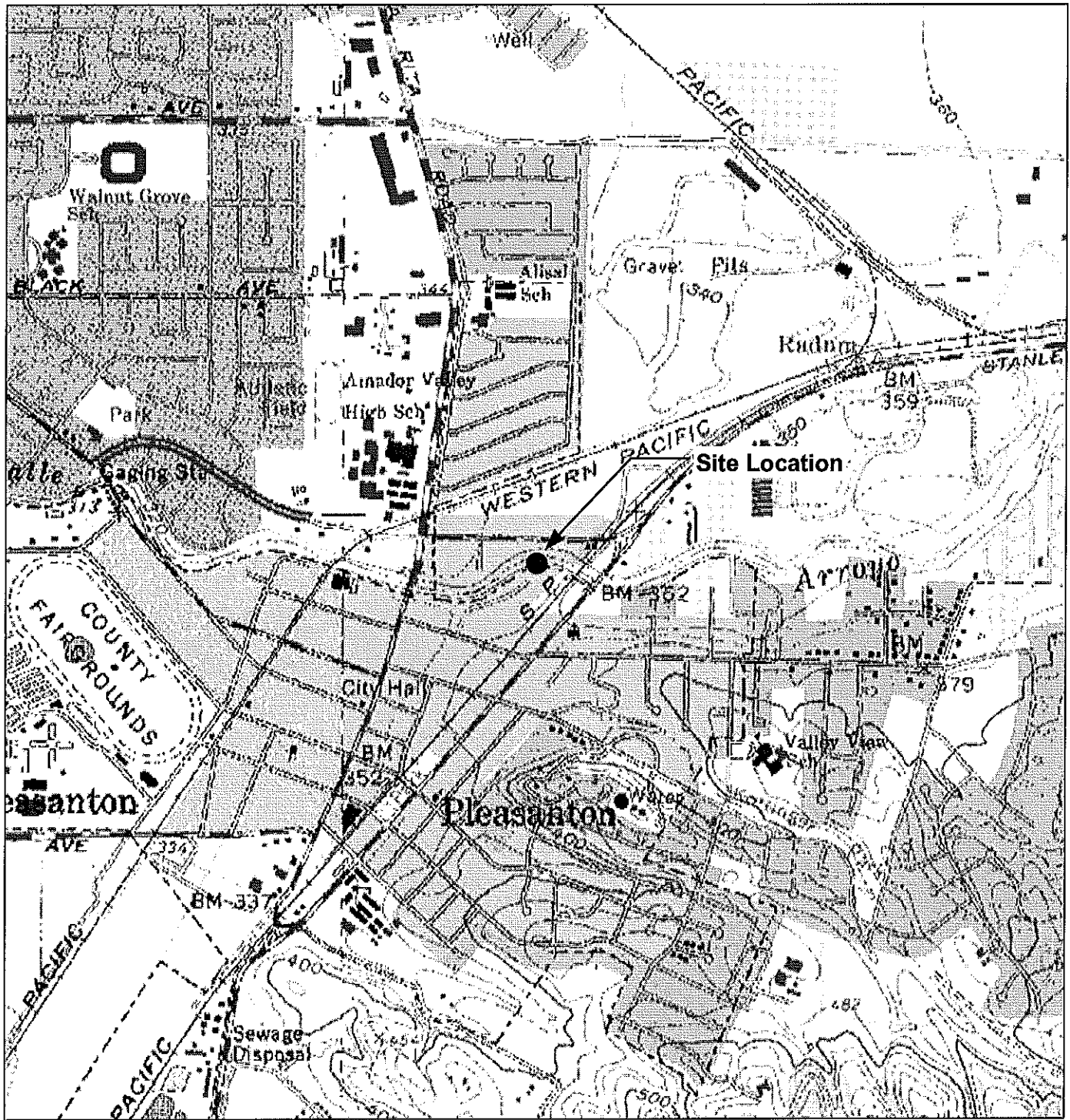
MTBE - Methyl tert-butyl ether

TBA - Tert-butyl alcohol

Data Qualifiers and Definitions:

QP - Hydrocarbon result partly due to individual peak(s) in quantitation range.

Environmental Screening Levels, SF RWQCB, Table C, soils >3 m, groundwater is potential drinking water source



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



QUADRANGLE LOCATION

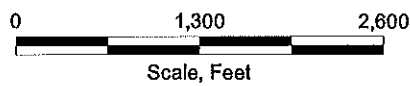
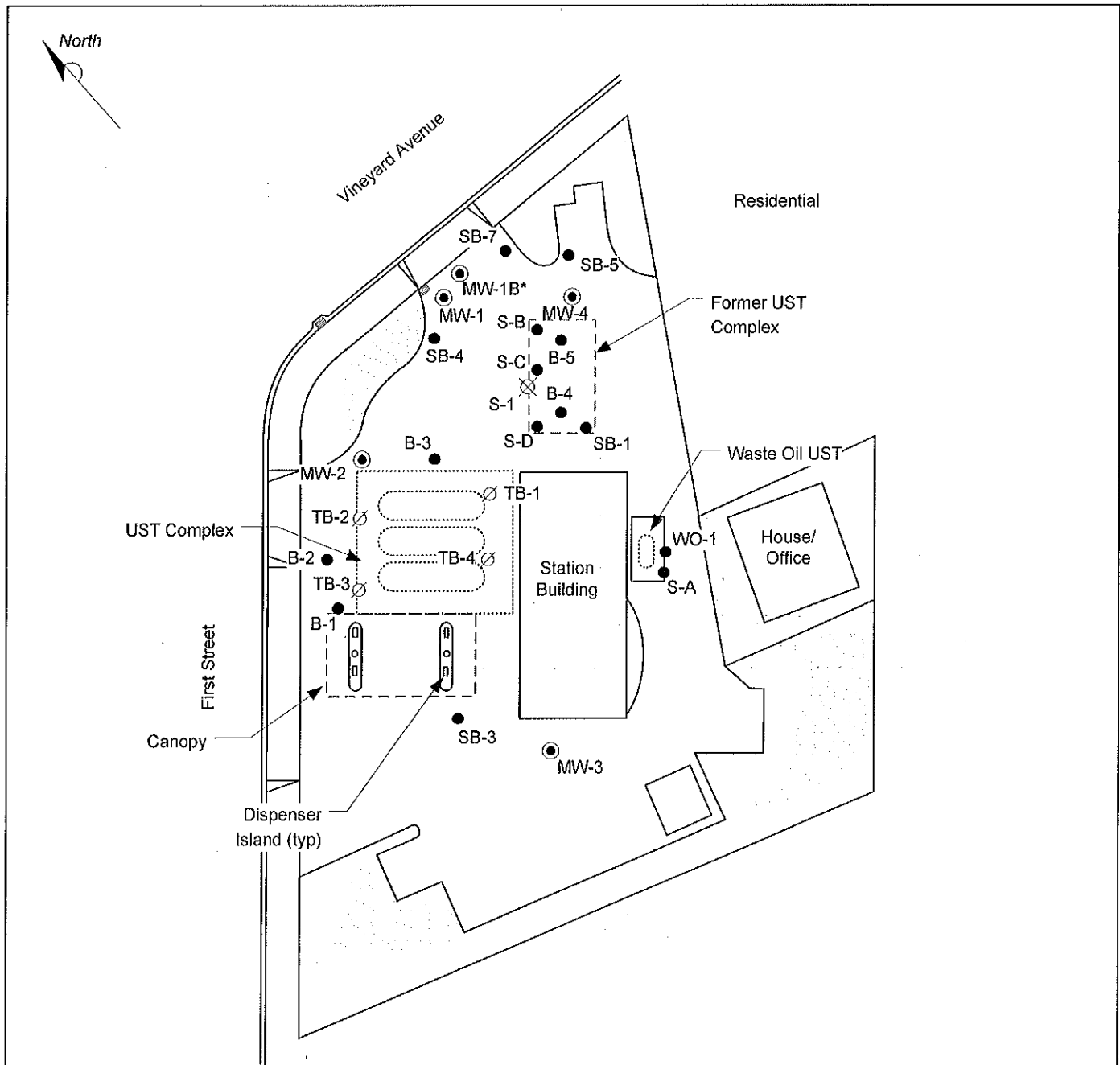


FIGURE 1
 SITE LOCATION MAP

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





LEGEND

- MW-2 ● **GROUNDWATER MONITORING WELL LOCATION**
- S-1 ⊗ **DESTROYED WELL**
- TB-1 ⊘ **ABANDONED TANK BACKFILL WELL LOCATION**
- B-3 ● **SOIL BORING LOCATION**

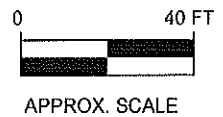


FIGURE 2
SITE MAP
SHELL-BRANDED SERVICE STATION
4226 First Street
Pleasanton, California

PROJECT NO. SJ422-6F1-X	DRAWN BY AD 6/16/07
FILE NO. SJ422-6F1-X	PREPARED BY LD
REVISION NO. 1	REVIEWED BY



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

Attachment A

ACHS LETTER DATED FEBRUARY 2, 2007

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director

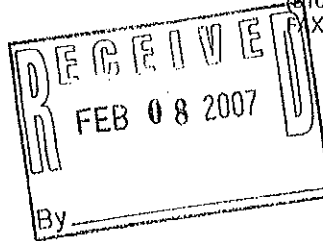


ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

February 2, 2007

Denís 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, Shell#13-5782, 4226 First Street, Pleasanton, CA –
Interim Remedial Action Approval

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 and the document entitled, "Interim Remedial Action Plan," dated January 18, 2007, prepared on Shell's behalf by Delta Environmental Consultants, Inc. The Interim Remedial Action Plan proposes the advancement of five soil borings at locations near the former and current USTs and dispensers to assess whether any remedial action may be required in the future to prevent leaching of contaminants to shallow groundwater. The Interim Remedial Action Plan also proposes step drawdown pumping tests on wells MW-4 and MW-1 to determine sustainable yields for the wells. Groundwater from well MW-4 will also be extracted at a constant rate until a total of 48,000 gallons of water is extracted. Discharge water samples are to be collected for laboratory analyses at the start, middle, and end of pumping. An additional water sample is to be collected for laboratory analyses approximately one week after the termination of pumping. We concur with the proposed scope of work.

We request that you perform the proposed work and send us the reports described below.

TECHNICAL REPORT REQUEST

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

- **June 25, 2007** – Site Investigation and Interim Remedial Action 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.

Denis Brown
Douglas and Mary Safreno
February 2, 2007
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ELECTRONIC SUBMITTAL OF REPORTS

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

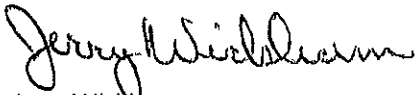
Denis Brown
Douglas and Mary Safreno
February 2, 2007
Page 3

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.

Sincerely,



Jerry Wickham
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Colleen Winey, 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

R. Lee Dooley
Delta Environmental Consultants, Inc.
175 Bernal Road, Suite 200
San Jose, CA 95119

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)

Attachment B

BORING LOGS

LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-60.01

BORING NO. S-A

PROJECT NAME Gettler-Ryan, Shell, 4226 First St., Pleasanton

PAGE 1 OF 1

BY MGB DATE 9/27/85

SURFACE ELEV. 375'±

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				0		ML CL	ASPHALT and SAND - Fill
				5	①	CL	GRAVELLY SILT - Fill; black (5Y, 2.5/2); 20% fine to coarse sand; 10% fine gravel; damp; no product odor.
	4.4	88		10			CLAY; light olive brown (2.5Y, 5/6); silty; 10% fine to medium sand; stiff; damp; no product odor.
				15	②		@7': no sand; hard; no product odor.
	1.5	21		20	③		@10': 20% fine gravel; no product odor.
				25			@14': 15-20% fine to medium sand; trace fine gravel; stiff; moist; no product odor.
	5	61		30			@18½': brownish yellow (10YR, 6/8); silty; hard; moist; no product odor.
				35			BOTTOM OF BORING AT 20 FEET.
				40			

REMARKS Drilled by 5-inch continuous flight auger; samples collected with 2-inch California modified split-spoon sampler; borehole backfilled with soil cuttings to ½ foot; concrete to surface.



LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-60.01

BORING NO. S-B

PROJECT NAME Gettler-Ryan, Shell, 4226 First St., Pleasanton PAGE 1 OF 1

BY MGB DATE 9/27/85

SURFACE ELEV. 373'±

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ FL)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				0		SW	CONCRETE.
		Push		5	①		SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; trace fine gravel; trace fines; loose; damp; strong gasoline odor.
		2		10	②		@7': strong gasoline odor.
		64		15	③	GC	CLAYEY GRAVEL; olive gray (5Y, 5/2); to olive (5Y, 4/3); fine to coarse grained; 30% fines; 15% fine to coarse sand; very dense; damp; moderate gasoline odor.
3.6		39		20	④	CL	CLAY; light olive brown (2.5Y, 5/6) to dark grayish brown (2.5Y, 4/2); 15% fine sand; trace coarse sand; very stiff; damp.; no gasoline odor.
2.3		41	▽	25	⑤		@19': olive gray (5Y, 4/2) to olive (5Y, 5/6); 20% fine to medium sand; no coarse sand; no gasoline odor.
0.4		50 for 6"		30	⑥		@24': olive (5Y, 4/4); 25% fine to coarse sand; very plastic; soft; faint gasoline odor.
				35			BOTTOM OF BORING AT 24½ FEET.
				40			

REMARKS Drilled by 8-inch continuous flight, hollow stem auger;
samples collected with 2-inch California modified split-spoon sampler;
borehole backfilled with soil cuttings to ½ foot; concrete to surface.



LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-60.01

BORING NO. S-C

PROJECT NAME Gettler-Ryan, Shell, 4226 First St., Pleasanton

PAGE 1 OF 1

BY MGB DATE 9/27/85

SURFACE ELEV. 373'±

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				0		SW	CONCRETE.
		Push		5	①	SW	SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; trace fine gravel; trace fines; damp; strong gasoline odor.
		2		10	②	SW	@7': loose; strong gasoline odor.
	4.3	30		15	③	CL	CLAY; olive (5Y, 5/6, 5/3); 20% fine to coarse sand; silty; hard; damp; no gasoline odor.
		50 for 6"		20	④	GC	CLAYEY GRAVEL; olive (5Y, 5/6, 5/4); fine grained; 35% fine to coarse sand; 15% fines; very dense; damp; no gasoline odor.
	0.4	19		25	⑤	CL	CLAY; yellowish brown (10YR, 5/6, 5/8); 35% fine to coarse sand; silty; soft; moist; no gasoline odor.
		72		28	⑥	SW ML	SAND: olive (5Y, 4/3); fine to coarse grained; 10% fines; medium dense; moist; no gasoline odor.
		48		30	⑦	SC	SANDY SILT; light olive brown (2.5Y, 5/6) 40% fine sand; very stiff; moist; no gasoline odor.
				35			CLAYEY SAND; olive brown (2.5Y, 4/4); fine to coarse grained; 40% clay; dense; moist; faint gasoline odor.
				40			BOTTOM OF BORING AT 28 FEET

REMARKS Drilled by 8-inch continuous flight, hollow-stem auger;
samples collected with 2-inch California modified split-spoon sampler;
borehole backfilled with concrete from 28 to 15 feet, soil cuttings to
½ foot; concrete to surface.



LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-60.01

BORING NO. S-D

PROJECT NAME Gettler-Ryan, Shell, 4226 First St., Pleasanton

PAGE 1 OF 1

BY MGB DATE 9/27/85

SURFACE ELEV. 374'±

TORVANE (TSF)	POCKET PENETROMETER (TSF)	PENETRATION (Blows/Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO-GRAPHIC COLUMN	DESCRIPTION
		Push		0		SW	CONCRETE.
				5	①		SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; 15% fine gravel; trace fines; loose; damp; strong gasoline odor.
		2		10	②		@7': strong gasoline odor.
4.25		37		15	③	CL	CLAY; olive yellow (5Y, 6/8) to olive (5Y, 4/3); 20% fine to coarse sand; silty; hard; damp; faint gasoline odor.
5		44		20	④		@14': olive (5Y, 4/3); 35% fine to coarse sand; 10% fine gravel; faint gasoline odor.
2.2		22		25	⑤		@19': olive (5Y, 4/3); to gray (5Y, 5/1); 20% fine to medium sand; slightly silty; very stiff; damp; faint gasoline odor.
1.25		31		30	⑥	ML	SANDY SILT; olive (5Y, 4/4); 40% fine sand; slightly clayey; stiff; damp; faint gasoline odor.
				35			BOTTOM OF BORING AT 22½ FEET.
				40			

REMARKS Drilled by 8-inch continuous flight, hollow-stem auger; samples collected with 2-inch California modified split-spoon sampler; borehole backfilled with concrete from 22½ to 11½ feet, soil cuttings to ½ foot ; concrete to surface.



LOG OF EXPLORATORY BORING

PROJECT NUMBER 738-60.01

BORING NO. S-1

PROJECT NAME Gettler-Ryan, Shell, 4226 First St., Pleasanton

PAGE 1 OF 1

BY MGB DATE 9/27/85

SURFACE ELEV. 373'±

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
				0		SW SC	ASPHALT and GRAVEL - Fill SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; 10% fine gravel; trace fines; damp; moderate gasoline odor.
				5			CLAYEY SAND; very dark gray (5Y, 3/1); fine to coarse grained; damp; moderate gasoline odor.
	4.25	34		15	①	CL	@12½': 10% fine gravel. CLAY; light olive brown (2.5Y, 5/6); 5% fine to coarse sand; silty; hard; damp; faint gasoline odor.
	3.6	28		20	②		@19': 20% fine to coarse sand; silty; very stiff; faint gasoline odor.
				25	③	GC	CLAYEY GRAVEL; olive (5Y, 5/4); fine grained; 35% fine to coarse sand; clayey; very dense; damp; no gasoline odor.
				30	④		@29': no gasoline odor.
				30½			BOTTOM OF BORING AT 30½ FEET.
				35			
				40			

REMARKS Drilled by 8-inch continuous flight, hollow-stem auger;
samples collected with 2-inch California modified split-spoon sampler;
borehole converted to 3-inch monitoring well as detailed on Plate F.



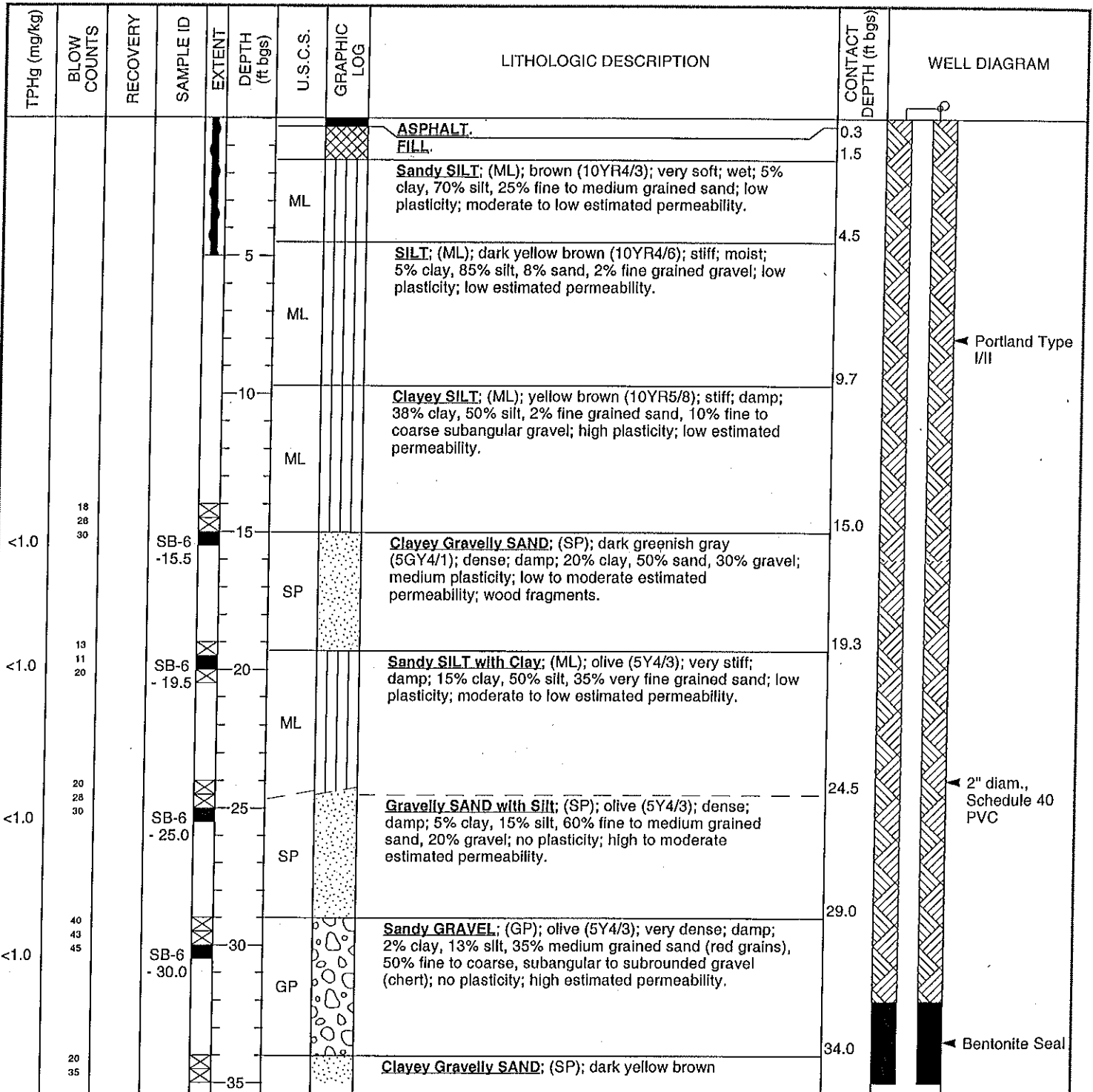


Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

(SB-6)

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	MW-1
JOB/SITE NAME	ple-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.		



WELL LOG (TPH-G) G:\PLE\4226\GINT\PLE-4226.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	MW-1
JOB/SITE NAME	ple-4226	DRILLING STARTED	08-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	58		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 ₂ /Fe staining); low plasticity; moderate to low estimated permeability.		Monterey Sand #3
<1.0	20 45 50/4		SB-6	■	40.0	SP		@ 44' - moist to wet.	▽	
	25 45 45			⊗	45					
	32 60/6			⊗	50	GC		<u>Clayey GRAVEL with Silt</u> ; (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.	50.0	2"-diam., 0.020" Slotted Schedule 40 PVC
	15 40 50			⊗	55	MH		<u>Clayey SILT</u> ; (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.	55.2	
				⊗	58.0				58.0	Bottom of Boring @ 58 ft

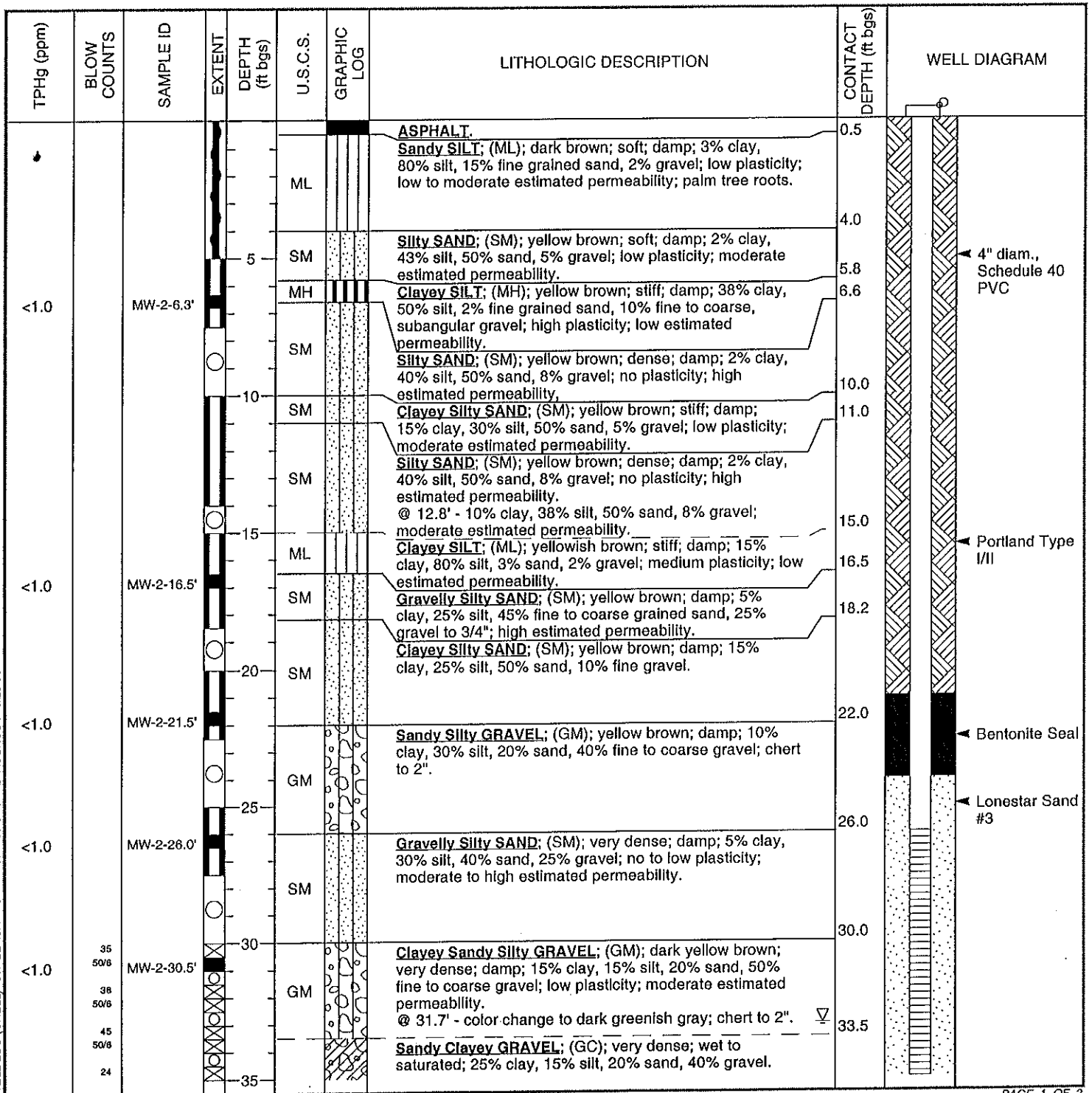
WELL LOG (TPH-G) G:\PLE4226\GINT\PLE4226.GPJ DEFAULT.GDT 8/11/99



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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.		



Continued Next Page

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



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 Oakland, CA 94608
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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

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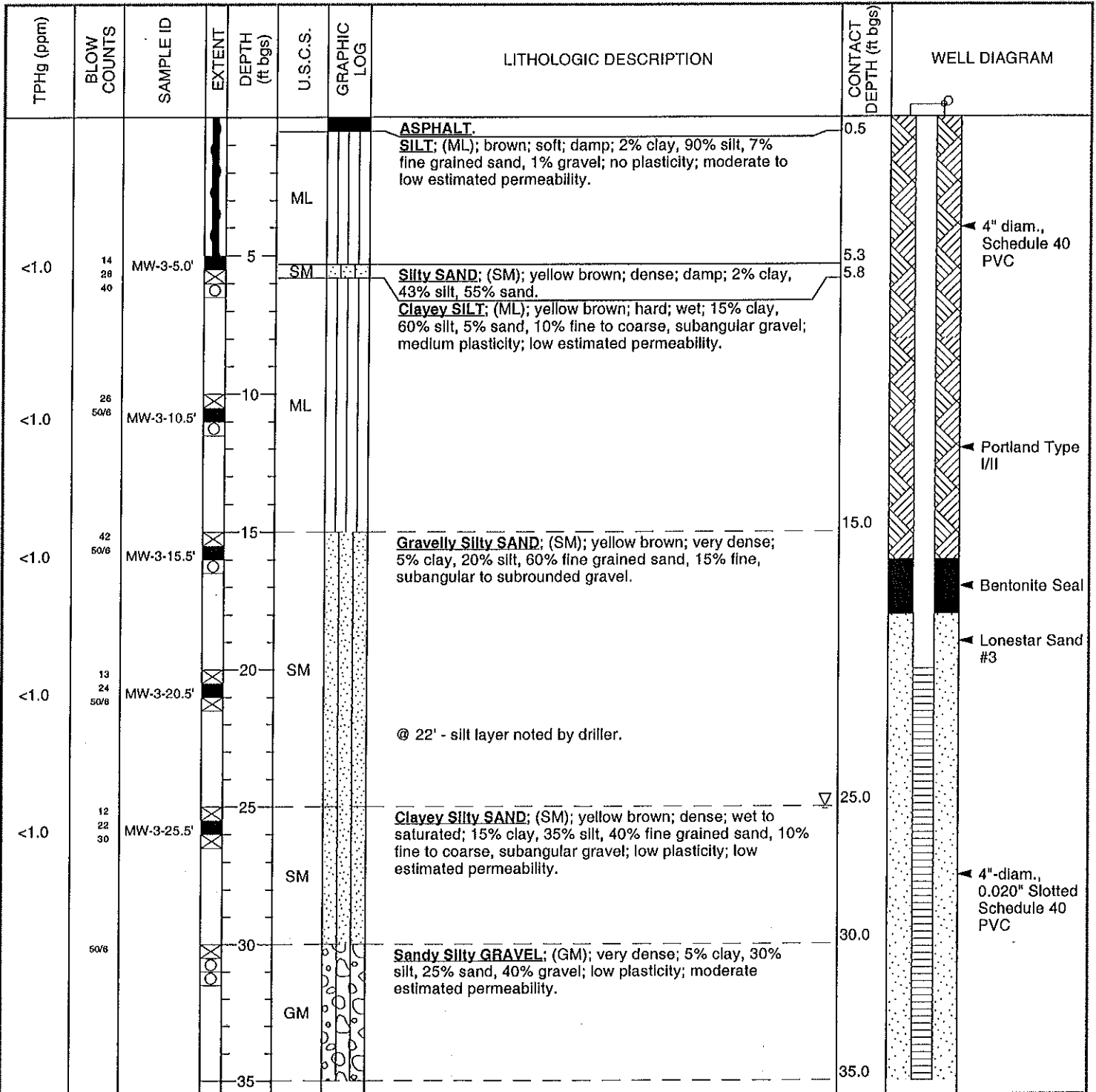
TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM	
<1.0	50/8	MW-2-35.0'		40	GC		Sandy Clayey GRAVEL ; (GC); very dense; wet to saturated; 25% clay, 15% silt, 20% sand, 40% gravel.	40.3		
	40						Sandy Gravelly SILT ; (ML); hard; saturated; 12% clay, 58% silt, 15% sand, 15% gravel; medium plasticity; low estimated permeability.			
	50/8				35	ML		Sandy Clayey SILT ; (ML); hard; saturated; 15% clay, 60% silt, 15% sand, 10% gravel.		43.5
	50/8				29	ML		Sandy SILT ; (ML); hard; saturated; 12% clay, 45% silt, 43% fine grained sand; slight plasticity ; low estimated permeability.		45.0
	27			45			48.0	Bottom of Boring @ 48 ft		



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
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.		



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



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 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

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

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 38 46		XXXX		ML		SILT; (ML); light brown; hard; 10% clay, 80% silt, 10% sand; low plasticity; low estimated permeability.		
	15 25 42		XXXX	40	ML		Clayey SILT; (ML); hard; 20% clay, 70% silt, 10% fine grained sand; medium plasticity; low estimated permeability.	40.0 41.5	<p>← Bentonite Seal</p> <p>Bottom of Boring @ 41.5 ft</p>

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		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION	
Backfill	Casing									
Grout								AF	~4" asphalt, ~8" baserock	
						1				
						2				
						3				
						4				
						5				
						6				
						7				
						8				
						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
				dry	0.1	3				
						4				
						5				
						10				
						11				
						12				
						13			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
						6				
				moist	7.4	8				
						12				
					14					
					15					
					16					
					17					
					18			SC	Clayey SAND: orangish brown, medium dense, 20-30% fines, 70-80% fine grained sands, trace gravels up to 0.5" diameter, low plasticity	
					7					
			moist	2	11					
					11					
					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 3 of 3
Driller: Gregg	Date Drilled: 8/24/2006	Location Map Please see site map
Drilling Method: HSA/AK (7')	Hole Diameter: 12"	
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	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing					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	45	↓		
				24	46			
	▽				47			
Bentonite		wet	27	11	48		CL	sandy lean CLAY: orangish brown, hard, 35-45% fine grained sands, 55-65% fines, low plasticity
				17	49	↑		
				20	50	↓		
					51			Bottom of the boring is at 50 feet bg
					52			
					53			
					54			
					55			
					56			
					57			
					58			
					59			
					60			

Delta

Environmental
Consultants, Inc.

Project No: SJ42-26F-1
 Logged By: AP
 Driller: Gregg
 Drilling Method: HSA/AK (7)
 Sampling Method: SS
 Casing Type: sch 40 PVC
 Slot Size: 0.01
 Gravel Pack: #2/12 sand

Client: Shell Oil Products US
 Location: 4226 First Street
 Date Drilled: 8/23/2006
 Hole Diameter: 12"
 Hole Depth: 108"
 Well Diameter: 4"
 Well Depth: 108"
 Casing Stickup: -

Well No: MW-1B
 Page 1 of 6

Location Map

Please see site map

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

air knifed &
hand augered

AF

~4" asphalt, ~8" baserock

See Cambria's MW-1 boring log (attached) for soil lithology between 1 and 58.5 feet bg

- 1
- 2
- 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
 Logged By: AP
 Driller: Gregg
 Drilling Method: HSA/AK (7')
 Sampling Method: SS
 Casing Type: sch 40 PVC
 Slot Size: 0.01
 Gravel Pack: #2/12 sand

Client: Shell Oil Products US
 Location: 4226 First Street
 Date Drilled: 8/24/2006
 Hole Diameter: 12"
 Hole Depth: 50'
 Well Diameter: 4"
 Well Depth: 47'
 Casing Stickup: -

Well No: MW-4
 Page 2 of 3

Location Map

Please see site map

Elevation

Northing

Easting

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing								
		moist	4.1	6 8 9	21 22 23 24 25	↑ ↓	SC SP-SC	Clayey SAND (cont.) Poorly Graded SAND with Clay: brown, medium dense, 5-15% fines, 85-95% fine grained sands
		moist	7.2	11 13 17	29 30	↑ ↓	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
		moist	340	10 16 20	34 35	↑ ↓	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
		moist	555	12 14 17	36 37	↑ ↓		
		moist	762	13 17 20	39 40	↑ ↓		(orangish brown w/grey mottling, 15-25% gravels up to 1" diameter, 20-30% fine grained sands, 45-65% fines, 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 2 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	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing					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	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	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing					41			
					42			
					43			
					44			
					45			
					46			
					47			
					48			
					49			
					50			
					51			
					52			
					53			
					54			
					55			
					56			
					57			
					58			
				14	59	↑	ML	SILT: mottled yellow brown and orangish brown, hard, 80-90% fines, <10% fine to very fine grained sands, low plasticity
		dry	8.1	16				
				21	60	↓		

Delta

Environmental Consultants, Inc.

Project No: SJ42-26F-1
 Logged By: AP
 Driller: Gregg
 Drilling Method: HSA/AK (7')
 Sampling Method: SS
 Casing Type: sch 40 PVC
 Slot Size: 0.01
 Gravel Pack: #2/12 sand

Client: Shell Oil Products US
 Location: 4226 First Street
 Date Drilled: 8/23/2006
 Hole Diameter: 12"
 Hole Depth: 108"
 Well Diameter: 4"
 Well Depth: 108"
 Casing Stickup: -

Well No: MW-1B
 Page 4 of 6

Location Map

Please see site map

Elevation

Northing

Easting

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

(80-90% fines, <10% very fine grained sands, medium plasticity)

Delta

Environmental Consultants, Inc.

Project No: SJ42-26F-1
 Logged By: AP
 Driller: Gregg
 Drilling Method: HSA/AK (7')
 Sampling Method: SS
 Casing Type: sch 40 PVC
 Slot Size: 0.01
 Gravel Pack: #2/12 sand

Client: Shell Oil Products US
 Location: 4226 First Street
 Date Drilled: 8/23/2006
 Hole Diameter: 12"
 Hole Depth: 108'
 Well Diameter: 4"
 Well Depth: 108'
 Casing Stickup: -

Well No: MW-1B
 Page 5 of 6

Location Map

Please see site map

Elevation

Northing

Easting

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing								
	▼	dry	9.2	10 14 18	81 82 83 84 85	ML	ML	SILT (cont.)
		moist	9.9	10 16 21	86 87 88 89 90	ML	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 (15-25% very fine grained sands)
		dry	11.9	13 16 20	91 92 93 94 95	ML	ML	(20-30% very fine grained sands)
	▽	wet	8.1	11 16 20	96 97 98 99 100	SC	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)

Grout

Bentonite

Sand

Delta

Environmental Consultants, Inc.

Project No: SJ42-26F-1
 Logged By: AP
 Driller: Gregg
 Drilling Method: HSA/AK (7')
 Sampling Method: SS
 Casing Type: sch 40 PVC
 Slot Size: 0.01
 Gravel Pack: #2/12 sand

Client: Shell Oil Products US
 Location: 4226 First Street
 Date Drilled: 8/23/2006
 Hole Diameter: 12"
 Hole Depth: 108'
 Well Diameter: 4"
 Well Depth: 108'
 Casing Stickup: -

Well No: MW-1B
 Page 6 of 6

Location Map

Please see site map

Elevation

Northing

Easting

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



BORING LOG

Client **Shell Oil Products US**
 Project Number **SJ4226F1X**

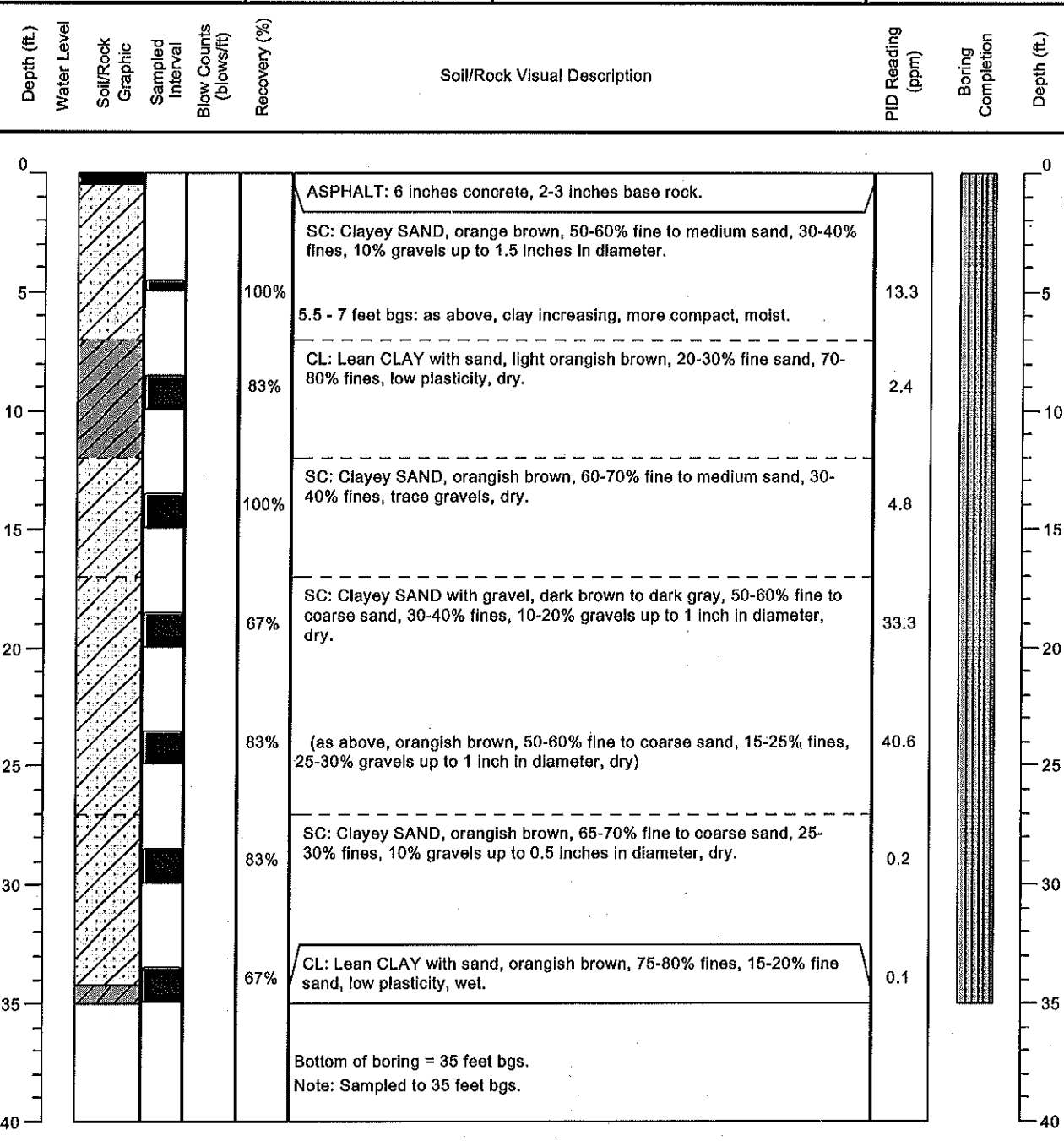
Boring No.
B-1

Address:
4226 1st Street
Pleasanton, California
 Logged By: **Andy Persio**

Drilling Date(s): **3/27/07**
 Drilling Company: **Gregg**
 Drilling Method: **HSA**
 Boring Depth (ft): **35**

Boring diameter (In.): **8**
 Sampling Method: **Hand Auger/Split Spoon**
 Well Depth (ft.): **NA**
 Casing Diameter (In.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**





BORING LOG

Client **Shell Oil Products US**
 Project Number **SJ4226F1X**

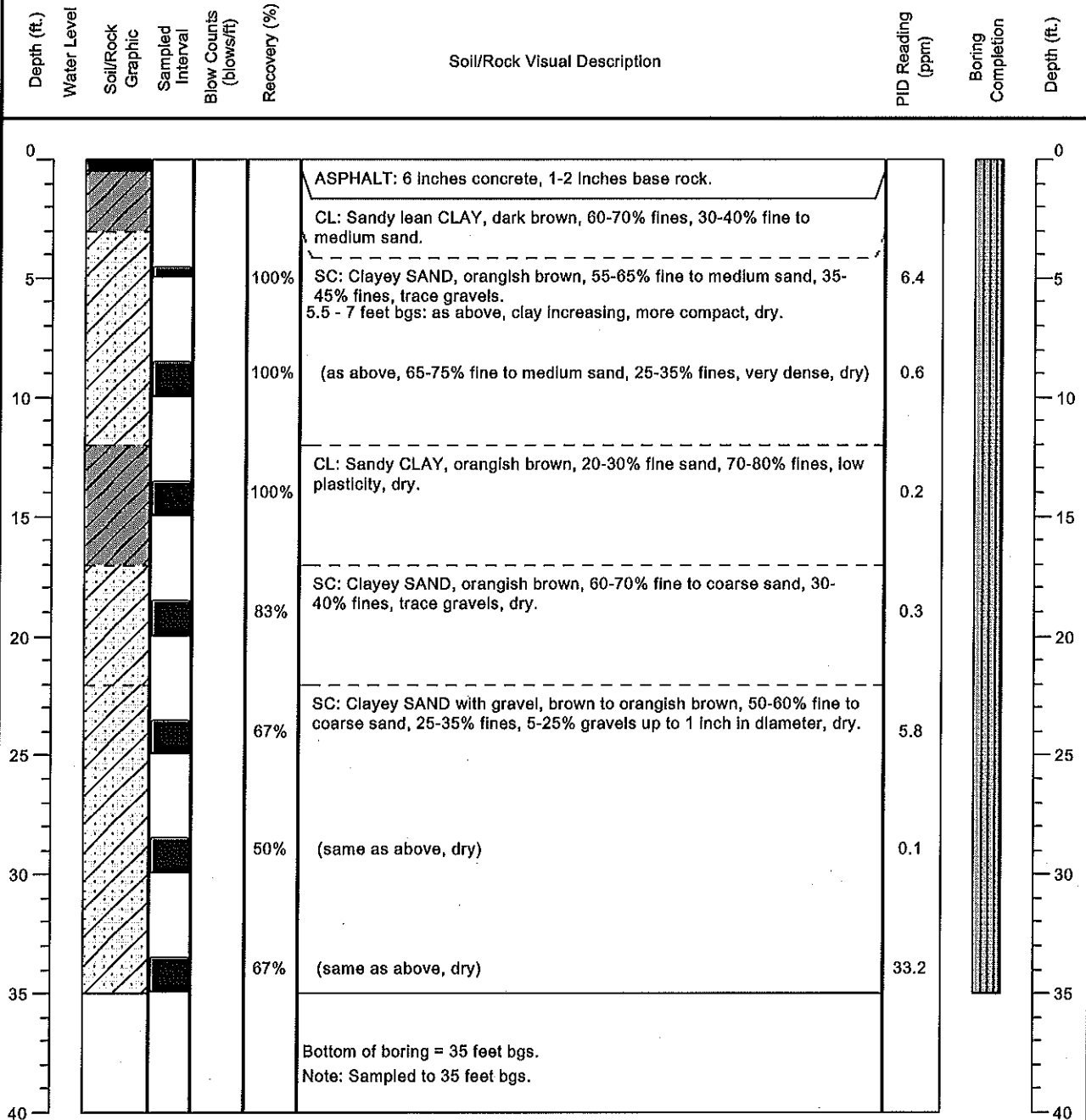
Boring No.
B-2

Address:
4226 1st Street
Pleasanton, California
 Logged By: **Andy Persio**

Drilling Date(s): **3/27/07**
 Drilling Company: **Gregg**
 Drilling Method: **HSA**
 Boring Depth (ft): **35**

Boring diameter (in.): **6**
 Sampling Method: **Hand Auger/Split Spoon**
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**





BORING LOG

Client **Shell Oil Products US**
 Project Number **SJ4226F1X**

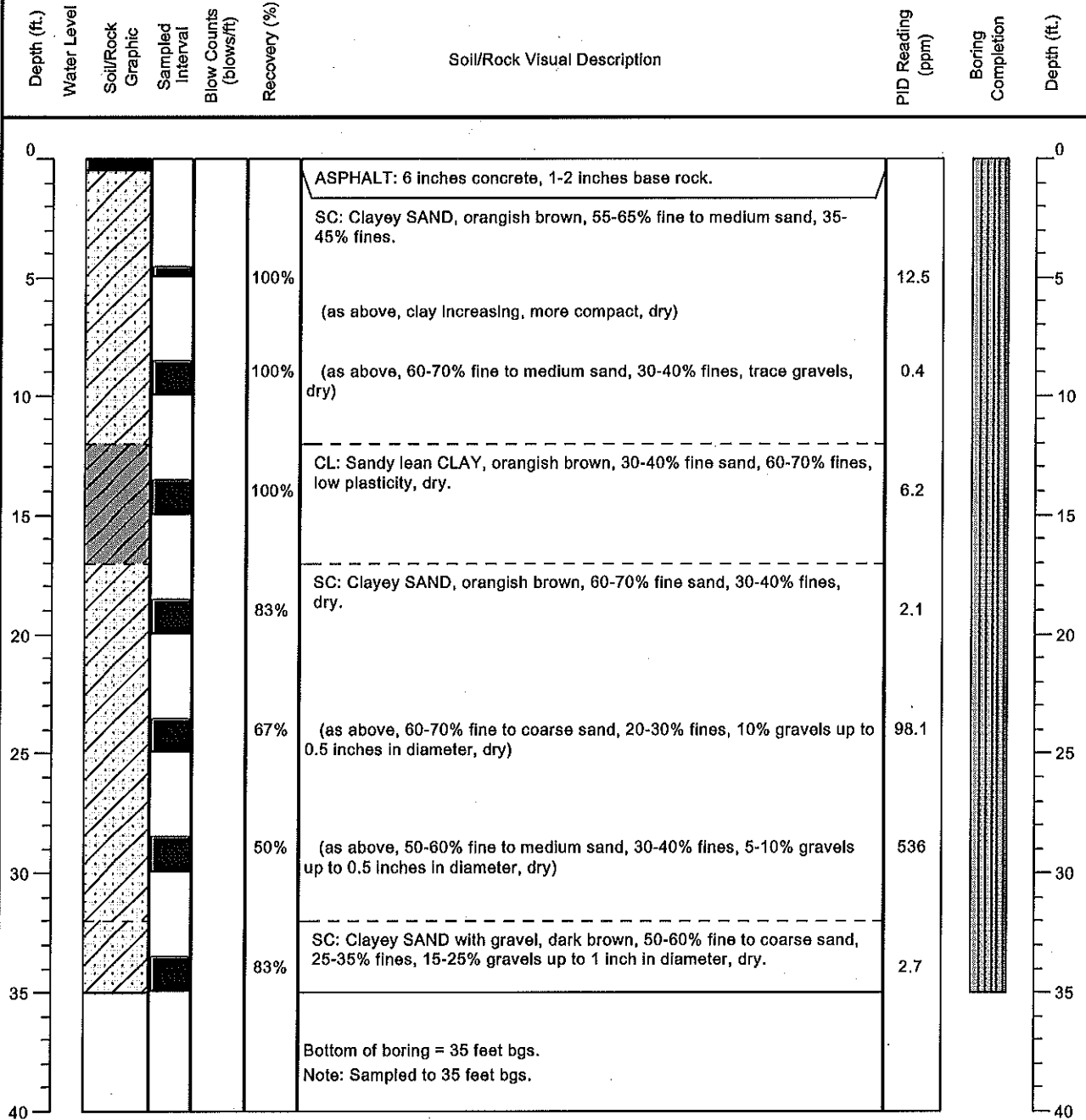
Boring No.
B-3

Address:
4226 1st Street
Pleasanton, California
 Logged By: **Andy Persio**

Drilling Date(s): **3/27-28/07**
 Drilling Company: **Gregg**
 Drilling Method: **HSA**
 Boring Depth (ft.): **35**

Boring diameter (in.): **8**
 Sampling Method: **Hand Auger/Split Spoon**
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**





BORING LOG

Client **Shell Oil Products US**
 Project Number **SJ4226F1X**

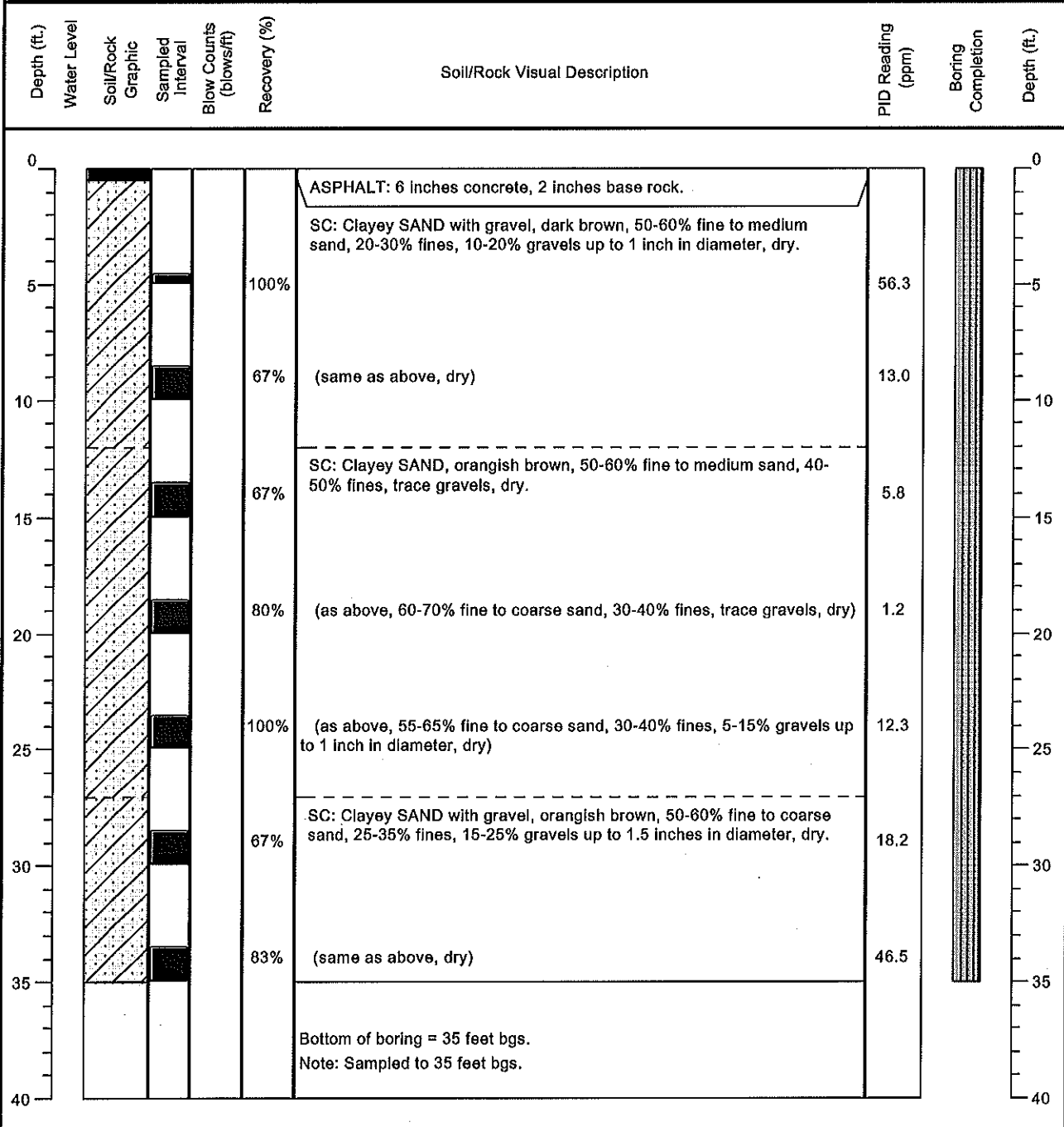
Boring No.
B-4

Address:
4226 1st Street
Pleasanton, California
 Logged By: **Andy Persio**

Drilling Date(s): **3/27-28/07**
 Drilling Company: **Gregg**
 Drilling Method: **HSA**
 Boring Depth (ft): **35**

Boring diameter (in.): **6**
 Sampling Method: **Hand Auger/Split Spoon**
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**





BORING LOG

Client **Shell Oil Products US**
 Project Number **SJ4226F1X**

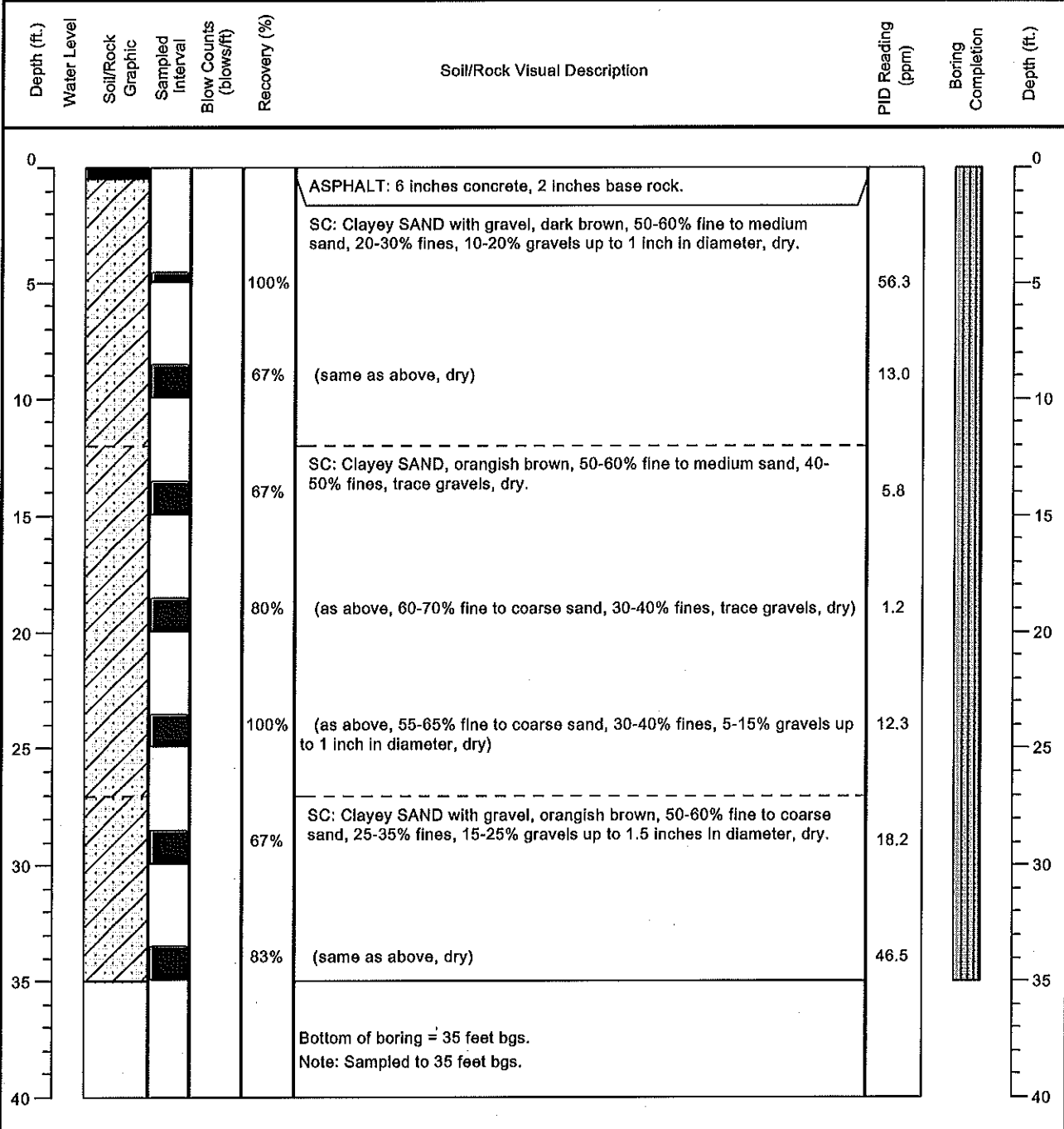
Boring No.
B-4

Address:
4226 1st Street
Pleasanton, California
 Logged By: **Andy Perslo**

Drilling Date(s): **3/27-28/07**
 Drilling Company: **Gregg**
 Drilling Method: **HSA**
 Boring Depth (ft): **35**

Boring diameter (in.): **6**
 Sampling Method: **Hand Auger/Split Spoon**
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**





BORING LOG

Client **Shell Oil Products US**
 Project Number **SJ4226F1X**

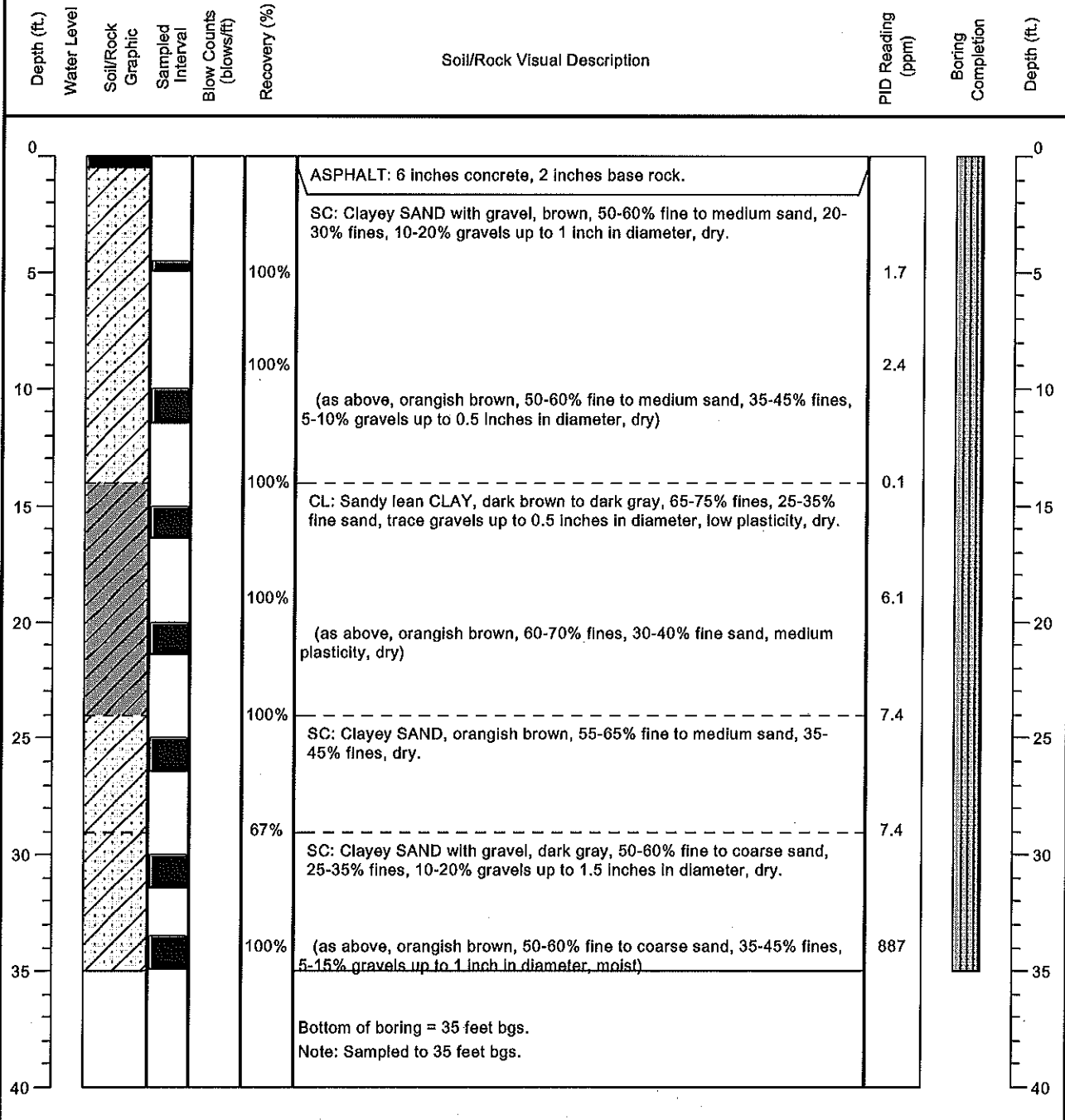
Boring No. **B-5**

Address:
4226 1st Street
Pleasanton, California
 Logged By: **Andy Persio**

Drilling Date(s): **3/27-28/07**
 Drilling Company: **Gregg**
 Drilling Method: **HSA**
 Boring Depth (ft): **35**

Boring diameter (in.): **6**
 Sampling Method: **Hand Auger/Spilt Spoon**
 Well Depth (ft.): **NA**
 Casing Diameter (in.): **NA**

Casing Material: **NA**
 Screen Interval: **NA**
 Screen slot size: **NA**
 Sand Pack: **NA**



Attachment C

HISTORIC SOIL ANALYTICAL DATA

Table
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

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.

CAMBRIA

**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

CAMBRIA

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

Sample	TPHg	Benzene	Toluene	(ppm)		
				Ethyl Benzene	Xylene	MTBE
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 1
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