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KAMUR INDUSTRIES, INC.

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(510) 523-7866 Fax (510) 523-3172

June 28, 2006

Jerry Wickham
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway - Suite 250
Alameda, CA 94502-6577

Subject: Additional Soil & Groundwater Investigation and
Fourth Quarter of 2006 Groundwater Monitoring & Sampling
400 San Pablo Avenue
Albany, CA

Dear Jerry:

Please find enclosed a copy of the January 10, 2007 subject at the Property Report prepared by Enviro Soil Tech Consultants.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Murray T Stevens". The signature is fluid and cursive, with a large initial "M" and "S".

Murray T Stevens, President
Kamur Industries Inc.

**ADDITIONAL SOIL & GROUNDWATER INVESTIGATION
AND FOURTH QUARTER OF 2006 GROUNDWATER
MONITORING & SAMPLING REPORT
AT THE PROPERTY
LOCATED AT 400 SAN PABLO AVENUE
ALBANY, CALIFORNIA
JANUARY 10, 2007**

**PREPARED FOR:
MR. MURRAY STEVENS
KAMUR INDUSTRIES, INC.
2351 SHORELINE DRIVE
ALAMEDA, CALIFORNIA 94501**

**BY:
ENVIRO SOIL TECH CONSULTANTS
131 TULLY ROAD
SAN JOSE, CALIFORNIA 95111**

ENVIRO SOIL TECH CONSULTANTS

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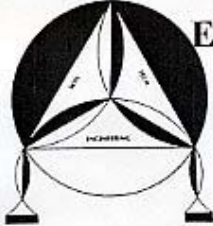
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ENVIRO SOIL TECH CONSULTANTS

Environmental & Geotechnical Consultants
131 TULLY ROAD, SAN JOSE, CALIFORNIA 95111
Tel: (408) 297-1500 Fax: (408) 292-2116

January 10, 2007

File No. 8-90-421-SI

Mr. Murray Stevens
Kamur Industries, Inc.
2351 Shoreline Drive
Alameda, California 94501

**SUBJECT: ADDITIONAL SOIL & GROUNDWATER
INVESTIGATION AND FOURTH QUARTER OF 2006
GROUNDWATER MONITORING & SAMPLING
REPORT AT THE PROPERTY**
Located at 400 San Pablo Avenue, in
Albany, California

Dear Mr. Stevens:

This report present the procedures and results of additional soil & groundwater investigation and quarterly groundwater monitoring & sampling of monitoring wells as well as sampling of El Cerrito Creek per Alameda County Health Care Services Agency (ACHCSA) request.

Several new borings were drilled and sampled at 400 San Pablo Avenue this quarter. Seven groundwater monitoring wells were also monitored and sampled. In addition, four samples were collected from El Cerrito Creek after the rainfall.

A copy of this report must be forwarded to ACHCSA for their comments and recommendations.

File No. 8-90-421-SI

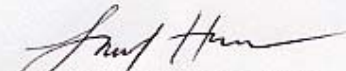
If you have any questions or require additional information, please feel free to contact our office at (408) 297-1500.

Sincerely,

ENVIRO SOIL TECH CONSULTANTS



VICTOR B. CHERVEN, Ph. D.
PROFESSIONAL GEOLOGIST #3475



FRANK HAMEDI-FARD
GENERAL MANAGER



LAWRENCE K.
C. E. #34928



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PURPOSE:

Alameda County Environmental Health Services Agency (ACEHSA) listed several purposes in its correspondence requesting the drilling investigation described here. To meet these objectives, three borings were drilled using a cone-penetrometer test (CPT) drilling rig and four borings were drilled with a Geoprobe drilling rig. The Geoprobes were drilled in the vicinity of the storm drain west of the property to collect additional soil and water samples and determine whether the drain is acting as a conduit for contaminant migration to El Cerrito Creek. The CPT borings were drilled nearer the former underground storage tank facility and were drilled deeper, in order to assess the vertical extent of groundwater contamination beneath the main portion of the site. A third purpose of the borings was to more clearly identify and characterize the aquifer and/or migration pathways beneath the site. In addition to these objectives, the wells were monitored and sampled to assess the current extent of groundwater contamination and determine the groundwater flow direction.

SITE DESCRIPTION:

The site is located at 400 San Pablo Avenue, in Albany, California, approximately one mile east of San Francisco Bay (Figure 1). The site is bordered by El Cerrito Creek to the north, San Pablo Avenue to the east and Adams Street to the west. The surrounding area is occupied by primarily light commercial and residential buildings and the California School for the Blind (Figure 2).

BACKGROUND:

The site was vacant until the late 1950's when Plaza Car Wash and the adjacent Norge Dry Cleaners building were constructed. Three underground tanks for gasoline storage were installed in the northern part of the car wash property in 1970, and Plaza Car Wash began dispensing gasoline from a dispenser island located to the north of the car wash building (Figure 2).

Investigation at this site was prompted by an emergency response action in El Cerrito Creek on July 3, 1989. A small plume of immiscible liquid hydrocarbons was observed floating on the water surface just north of the dry cleaners property. The Albany Fire Department responded and installed absorbent materials and a containment boom around the plume. Subsequent inspection indicated that the hydrocarbon plume was entering the creek through a storm drain that discharges into the creek behind (northwest of) the dry cleaners. Investigation was then undertaken to discover the source of the plume.

The discovery and interim remediation of petroleum contamination in El Cerrito Creek was followed by several years of subsurface investigation and surface-water sampling by Enviro Soil Tech Consultants (ESTC) and others working on behalf of Kamur Industries. Norge Dry Cleaners conducted no investigation of its own, but contamination beneath that property was investigated as part of the work being performed by Kamur Industries. Between 1989 and 2004, the underground gasoline storage tanks at the car wash were removed, gasoline-contaminated soil was excavated and disposed of, soil-vapor probes were installed and sampled, and soil borings and monitoring wells were drilled and sampled.

The extensive investigation performed on behalf of Kamur Industries produced a voluminous amount of data on groundwater flow patterns and soil and water contamination, and in August 2003, the ACEHSA requested Kamur Industries to submit a report summarizing the entire investigation. The purpose of the report was to enable ACEHSA to evaluate the status of the case and determine whether additional studies are needed to move the site toward case closure. Enviro Soil Tech Consultants submitted a report titled *Historical Events Report for Plaza Car Wash* in 2004 and revised it in May 2005. That report focused primarily on the tasks that had been performed and the procedures that were used, and ACEHSA subsequently requested a more comprehensive analysis of the site's hydrogeology and contamination history. ESTC completed a companion report titled *Site Conceptual Model for the Properties Located at 398 and 400 San Pablo Avenue* in February 2005. Based on that analysis, ESTC recommended drilling a few additional borings to complete the site assessment. ACEHSA responded with a request for a work plan for additional investigation, and ESTC submitted a work plan in June 2005. After several additional meetings and revisions, the work plan was accepted by ACEHSA in a comment letter dated August 25, 2006. ESTC obtained the necessary drilling permits in September, and the drilling was performed in late October and early November. Groundwater monitoring took place in mid-December, and all laboratory work was completed by the end of December.

ASSESSMENT OF STORM DRAIN

In order to collect soil samples in the vicinity of the storm drain that is located in Adams Street west of the site, a direct-push drilling rig (Geoprobe) was mobilized to the site on October 29, 2006. Previously, four boring locations had been selected and approved by ACEHSA and various utility companies to insure that no underground utility lines would be affected. The boring locations are shown in Figure 2.

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All four borings were drilled to a depth of 20 feet. The borings were continuously sampled in polyethylene liners, and the samples were described and logged by a registered geologist. The samples were screened with a portable photo-ionization detector (PID) for organic vapors, and two samples were selected from each core and preserved in a cooled ice chest for later laboratory analysis. PID readings were recorded on the boring logs, which are included in Appendix "C".

Several thin beds were penetrated in each boring, but most of these were various types or colors of clay and 70-90% of the total sediment volume consisted of clay. The clay ranged from black, slightly plastic organic clay to yellow-brown or variegated silty to sandy clay. There was a downward progression in most borings from black clay to variegated clay to yellow-brown clay. The black clay exhibited an organic odor of decaying vegetation that was unlike gasoline or diesel fuel, most notably in boring GP-1.

At least one bed in each boring consisted of fine-grained to silty sand. A layer of sand 2-3 feet thick was present in all borings from about 2 to 5 feet below the surface. The sand was dark brown to black in color, and may have been stained with asphalt. This layer was probably some sort of sub-road base fill material rather than native soil. A deeper sand layer, at approximately 17-18 feet, was yellow or olive-gray in color and appeared to be native soil.

Hydrocarbons were detected in only one of the eight samples. The laboratory reported Total Petroleum Hydrocarbons in the gasoline range (TPHg) at a concentration of 1.4 milligram per kilogram (mg/Kg) in sample GP-2-7', Benzene at 0.012 mg/kg, and acetone at 0.210 mg/kg (Table 1 and Appendix "A"). No hydrocarbon odors were noted in this boring during drilling, but a PID concentration of 5 parts per million was recorded from this sample. A higher PID concentration of 25 ppm was measured in sample GP-1-6', but the laboratory did not detect any hydrocarbons in this sample.

Water samples were collected from each boring, and the results are given in Table 2 (Appendix "A"). Chlorinated solvents of the type used in dry cleaning operations were detected in all four samples, at concentrations ranging from 1 to a few tens of micrograms per liter ($\mu\text{g/L}$). A concentration maximum of 437 $\mu\text{g/L}$ (1,2-dichloroethane: 1,2-DCA) was detected in GP-3 with EPA method 8260B. This concentration was sufficiently high that it exceeded the TPHg detection limit of 50 $\mu\text{g/L}$ attainable with EPA method 8015, and therefore the laboratory also detected a TPHg concentration of 310 $\mu\text{g/L}$ in this sample. However, because none of the principal components of gasoline (BTEX) were detected in this or any other sample, it is highly unlikely that the reported concentration was gasoline. Hence, we conclude that in the vicinity of the storm drain outlet to El Cerrito Creek, groundwater is slightly impacted by chlorinated hydrocarbons from the dry cleaners but not gasoline from Plaza Car Wash.

ASSESSMENT OF VERTICAL EXTENT OF GROUNDWATER IMPACT

The vertical extent of groundwater contamination was investigated using a cone penetrometer testing (CPT) drilling rig. Gregg Drilling, Inc. mobilized a hollow-stem auger drilling rig and a CPT rig to the site on November 1, 2006. The auger rig was used to drill pilot holes through the concrete pavement for three CPT borings. Several potential locations had previously been proposed, but the locations were modified somewhat to accommodate the size of the CPT rig and the volume of traffic flow through the car wash facility. The final locations of the three borings that were drilled are shown in Figure 2.

The first boring, CPT-2, was drilled to a depth of 23 feet, at which point there was a rapid increase in bit pressure and the drilling rate dropped rapidly. The drilling crew determined that the bit had encountered a very hard zone that could not be penetrated, and drilling was terminated. After examining the CPT log, the rig was moved over one foot and a second boring was drilled to the same depth. Drilling was momentarily suspended at 17 feet so that a groundwater sample could be collected, and then the boring was advanced to the indurated zone at 23 feet and a second water sample was collected. The water samples were collected in a small-diameter stainless steel bailer and poured into 40-ml glass vials for later laboratory analysis. The samples were logged on a chain of custody form and placed in a cooled ice chest. Borings CPT-1 and CPT-3 also encountered this resistant zone, at depths of 23 and 25 feet, respectively. One water sample was collected from each of these borings in the previously described manner. The borings were backfilled with neat cement and covered with an asphalt patch.

As shown in the CPT logs (Appendix "F"), clay is the dominant lithology at the site. There is essentially no sand in any of the borings, except possible at the very bottom, and it does not appear that any true aquifer is present in the shallow subsurface. The indurated material below 23 feet may be a cemented sandstone or some type of metamorphic bedrock, and is probably related to the older rocks that are exposed a short distance to the west on Albany Hill. This rock is probably an aquitard, and the groundwater that is present in the borings and monitoring wells at the site is probably perched above this resistant zone.

The four water samples that were collected were analyzed for chlorinated hydrocarbons as well as gasoline and its components. The depths and laboratory results are shown in Table 3. The laboratory report is in Appendix "G". No chlorinated solvents were detected in any of the samples. However, gasoline and one or more BTEX compounds were detected in each sample. At a depth of 17 feet, TPHg was detected at 59 µg/L, slightly above the detection limit, and the BTEX compounds were present at concentrations ranging from 1 to 8 µg/L. At the slightly deeper depth of 22 feet, the concentrations were 580 µg/L and 18-78 µg/L. Concentrations were lower in CPT-1 and CPT-3, and the only hydrocarbons that were detected in the sample from CPT-1 were benzene (2.1 µg/L) and Ethylbenzene (0.76 µg/L). Hence, we conclude that groundwater in these borings is impacted at low concentrations by gasoline, but not by dry cleaning solvents. The results agree well with the data from the monitoring wells, as discussed below and in previous quarterly monitoring reports.

MONITORING PROCEDURES

ESTC staff monitored the site on December 11, 2006. After the seven monitoring wells were opened, staff measured the depth to groundwater and then used a translucent plastic bailer to monitor each well for the presence of floating product and/or any distinctive odor. The wells were then purged of at least three well volumes of water and the purged water was stored in 55-gallons drums on site.

After purging, water samples were collected in a stainless steel bailer and transferred to 40-ml sample vials and stored in a cooled ice chest for later transmittal to the analytical laboratory.

Sampling equipment was decontaminated before and after sampling each well using Tri-sodium Phosphate (TSP) and water wash, followed by a double rinsing. Stringent chain-of-custody procedures were maintained during sample acquisition, storage and transport. The sampling was conducted in accordance with ESTC's Standard Operation Procedure (SOP) (Appendix "F") and ACHCSA's guidelines.

RESULTS

Depth to Groundwater and Groundwater Flow Direction

The depth to groundwater on December 11 ranged from slightly less than 6 feet to slightly more than 8 feet in most wells. At 4.22 feet below grade, the depth in MW-3 was somewhat of an anomaly. In this well, the water table appears to have risen more than 3 feet since August, whereas the rise in other wells was a foot or less (Table 4). A 3-foot rise in the water table would be very unusual at this site, and we cannot explain the anomaly at this time.

Converting the measurements to elevation relative to sea level and contouring the data indicates that the water table sloped away from El Cerrito Creek and toward San Francisco Bay (Figure 3). The hydraulic gradient appears to be steeper than in past quarters, and the elevations in MW-2 and MW-3 are anomalously high. The elevation in MW-3 is so high that it appears to be invalid, and was not used in drawing the contour map.

Laboratory Results

The water samples were submitted to Entech Analytical Labs in Santa Clara, California to be analyzed for TPHg and BTEX by EPA method 8015 and for MTBE and other gasoline oxygenates and volatile organic compounds by EPA method 8260B. The results are summarized in Table 4. The laboratory analytical report is included in Appendix "G".

Hydrocarbons in the gasoline range have consistently been detected in STMW-1, but the TPHg concentration has declined each quarter this year and is presently about 45% of its value at the beginning of the year. Toluene, Ethylbenzene, and Total Xylenes concentrations have also declined throughout the year and are currently 13-65% of their February values. Benzene has been less consistent, but is now present at about 58% of its February concentration.

In contrast, concentrations in STMW-2 are higher now than they were at the beginning of the year, and have been rising for the past several months. The TPHg concentration on December 11 was more than twice its value on February 25 and more than 3 times greater than its value on August 24. BTEX concentrations have also risen.

Benzene was reported at 0.64 µg/L in STMW-3, but this is a very low concentration and whether it is a valid result or due to cross contamination in the field or laboratory is uncertain. No other gasoline hydrocarbons were detected in any of the "STMW" wells, but chloroform, a chlorinated hydrocarbon, was detected in STMW-5 (Table 4).

Several analytes were detected in the well nearest Norge Cleaners (MW-3). Tetrachloroethene (PCE) was detected at a concentration of 160 µg/L, Trichloroethene (TCE) was reported at 22 µg/L, and Vinyl Chloride was reported at 6.1 µg/L. These are the same compounds that were detected in the Geoprobe borings. The TPHg concentration was 460 µg/L and Benzene was reported at 6.4 µg/L. In MW-2, only TPHg, Benzene, and Chloroform were detected. The results from these two wells could indicate a mixture of gasoline from Plaza Car Wash and solvents from Norge Cleaners.

Hydrocarbon isocontour maps (Figures 4 and 5) continue to reveal a contaminant plume that is elongated southeast-northwest across the site. Concentrations diminish in all directions away from STMW-1, which is near the former location of the underground storage tanks.

EL CERRITO CREEK SAMPLES

As requested by ACESHA, water samples were also collected from El Cerrito Creek on December 11. Samples were collected 20 feet upstream of the storm drain outlet, at the outlet, at the confluence of the outlet flow and the streamflow, and 50 feet downstream from the outlet. The samples were analyzed for all of the same compounds as the groundwater samples, and the only hydrocarbon that was detected was Chloroform, at the outlet (Table 5). It thus appears that Chloroform is present in two monitoring wells (MW-2 and STMW-5) upgradient of the storm drain outlet and in the vicinity of the outlet. PCE, TCE, and Vinyl Chloride are present in the vicinity of the storm drain (as evidenced by the Geoprobe samples) and in at least one monitoring well (MW-3), and may be migrating toward the storm drain, but were not detectable in El Cerrito Creek. It does not appear that gasoline or BTEX compounds are migrating to the storm drain or discharging into El Cerrito Creek.

SUMMARY AND CONCLUSIONS

The data collected in the fourth quarter of 2006 make it possible to achieve all of the objectives of this investigation and draw several important conclusions. These are listed below.

- There are no high-porosity, high-permeability aquifers in the shallow subsurface of this site. Dense, indurated rock underlies the site at a depth of approximately 25 feet, and this bedrock appears to form an aquitard above which shallow groundwater is perched within low-permeability clay beds. Groundwater in these beds percolates slowly into monitoring wells and temporary borings, and the groundwater recharge rate is low.
- The indurated rock at 25 feet below grade limits the vertical extent of groundwater contamination to the clay soils above this depth. In two of three samples collected just above the indurated rock, gasoline concentrations were below the detection limit and the concentrations of its volatile components (BTEX) were near or below the detection limit. Concentrations are far below those found in nearby monitoring wells near the soil-water interface at 6-8 feet. This implies a vertical gradient of decreasing concentrations, and that groundwater in aquifers below the indurated rock has not been impacted by the gasoline release at Plaza Car Wash.
- Gasoline and its components were not detected in the soil or groundwater near the storm drain west of the site, nor in surface water samples from El Cerrito Creek. This indicates that soil near the storm drain is not a potential future source of gasoline contamination to El Cerrito Creek, nor is the storm drain acting as a conduit for gasoline-contaminated groundwater to migrate from Plaza Car Wash to the creek. Geologically reasonable contour mapping of groundwater concentrations suggests that the limit of the gasoline impact is south of El Cerrito Creek and east of the Norge Cleaners building.

- Soil, groundwater, and surface water samples in the northwestern part of the site area are impacted by several chlorinated hydrocarbons that occur in solvents used in the dry cleaning process. These include Perchloroethane, Trichloroethene, 1,2-Dichloroethane, Vinyl Chloride, and Chloroform. Norge Dry Cleaners is the probable source of these hydrocarbons. These compounds have not been found in the soil and water samples from borings and wells near the Plaza Car Wash property, implying that these compounds have not migrated to the southeast toward the car wash or to the northwest from the car wash. Rather, it appears that they have migrated to the northwest toward the storm drain from the dry cleaners, where concentrations are higher.
- Further investigation of gasoline contamination at Plaza Car Wash appears unnecessary, and we do not recommend drilling any additional monitoring wells. The plume is sufficiently understood and well-defined to allow ACEHSA and the San Francisco Bay Regional Water Quality Control Board to determine whether the contamination poses a threat to public health and requires active remediation or can be allowed to attenuate naturally. The monitoring record over the past three years indicates that there has been a natural reduction in TPHg and Benzene concentrations of as much as 75% in the well nearest the former UST facility. During that same time period, concentrations have risen in the other impacted well (STMW-2), but are still somewhat lower than they were in the late 1990's.
- Monitoring of all wells should continue while ACEHSA and the Regional Board review the site for possible closure, but Plaza Car Wash and Kamur Industries should be released from any further obligation to monitor El Cerrito Creek or to investigate or remediate contamination in the vicinity of Norge Dry Cleaners and the storm drain to the west of it. Those areas are impacted only by chlorinated hydrocarbons that did not originate from Plaza Car Wash, and Kamur Industries is not the Responsible Party for those impacts.

LIMITATIONS:

This report and the associated work have been provided in accordance with the general principles and practices currently employed in the environmental consulting profession. The contents of this report reflect the conditions of the site at this particular time. The findings of this report are based on:

- 1) The observations of field personnel.
- 2) The results of laboratory analyses performed by a state-certified laboratory.

It is possible that variations in the soil and groundwater could exist beyond the points explored in this investigation. Also, changes in groundwater conditions of a property can occur with the passage of time due to variations in rainfall, temperature, regional water usage and other natural processes or the works of man on this property or adjacent properties.

This report is issued with the understanding that it is the responsibility of the owner or his/her representative to ensure that the information and recommendations contained herein are called to the attention of the Local Environmental Agency.

The services that ESTC provided have been in accordance with generally accepted environmental professional practices for the nature and conditions of the work completed in the same or similar localities, at the time the work was performed. This report is not meant to represent a legal opinion. No other warranty, express or implied is made.

A P P E N D I X "A"

TABLES

**TABLE 1
SUMMARY OF SOIL SAMPLES ANALYTICAL RESULTS**

Date	Sample #	Depth feet	TPHg µg/Kg	B µg/Kg	T µg/Kg	E µg/Kg	X µg/Kg	MTBE µg/Kg	Pb mg/Kg	PCE µg/Kg	TBA µg/Kg	TCE µg/Kg	VOCs by EPA 8260 µg/Kg
10/23/06	421-GP-1-6	6	ND <100	ND <5	ND <5	ND <5	ND <10	ND <5	5.8	ND <5	ND <40	ND <5	None Detected<5
	421-GP-1-10	10	ND <100	ND <5	ND <5	ND <5	ND <10	ND <5	6.3	ND <5	ND <40	ND <5	None Detected<5
10/23/06	421-GP-2-7	7	1400	12	ND <5	ND <5	ND <10	ND <5	5.1	ND <5	ND <40	ND <5	Acetone 210 n-Propylbenzene 6.2
	421-GP-2-13½	13½	ND <100	ND <5	ND <5	ND <5	ND <10	ND <5	5.6	ND <5	ND <40	ND <5	None Detected<5
10/23/06	421-GP-3-7	7	ND <100	ND <5	ND <5	ND <5	ND <10	ND <5	8.4	ND <5	ND <40	ND <5	None Detected<5
	421-GP-3-13	13	ND <100	ND <5	ND <5	ND <5	ND <10	ND <5	6.8	50	ND <40	6.7	None Detected<5
10/23/06	421-GP-4-11	11	ND <100	ND <5	ND <5	ND <5	ND <10	ND <5	6.3	ND <5	ND <40	ND <5	None Detected<5
	421-GP-4-13	13	ND <100	ND <5	ND <5	ND <5	ND <10	ND <5	4.6	ND <5	ND <40	ND <5	None Detected<5

TPHg – Total Petroleum Hydrocarbons as gasoline
MTBE – Methyl Tertiary Butyl Ether
PCE – Tetrachloroethene
TCE – Trichloroethene
µg/Kg – Microgram Per Kilogram
ND – Not Detected (Below Laboratory Detection Limit)

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes
Pb – Total Lead
TBA – tert-Butanol
VOCs – Volatile Organic Compounds
mg/Kg – Milligram Per Kilogram

TABLE 2
SUMMARY OF WATER SAMPLES ANALYTICAL RESULTS
IN MICROGRAM PER LITER (µg/L)

Date	Sample No.	TPHg	B	T	E	X	MTBE	TBA	PCE	TCE	DCA
10/23/06	GP-1	ND<25	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<10	7.9	1.8	2.5
	GP-2	ND<25	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<10	8.2	0.67	ND<0.5
	GP-3	310	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<1	ND<50	48	29	437.1
	GP-4	ND<25	ND<0.5	ND<0.5	ND<0.5	0.67	ND<1	ND<10	2.6	1.3	3.3

TPHg – Total Petroleum Hydrocarbons as gasoline

MTBE – Methyl Tertiary Butyl Ether

TBA – tert-Butanol

DCA – Dichloroethene

BTEX – Benzene, Toluene, Ethylbenzene, Total Xylenes

PCE – Tetrachloroethene

TCE – Trichloroethene

ND – Not Detected (Below Laboratory Detection Limit)

TABLE 3
SUMMARY OF GROUNDWATER SAMPLES
ANALYTICAL RESULTS FROM CPT BOREHOLES
IN MICROGRAM PER LITER (µg/L)

Date	Sample No.	Depth feet	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	VOCs (EPA 8260B)
11/01/06	421-CPT1-23	23	ND<50	2.1	ND<0.5	0.76	ND<0.5	ND<1	ND<0.5	ND<10	ND<0.5	None Detected<0.5
	421-CPT2-17	17	59	7.7	6.5	1.1	4.6	ND<1	ND<0.5	ND<10	ND<0.5	None Detected<0.5
	421-CPT2-22	22	580	46	31	18	78	1.2	ND<0.5	ND<10	ND<0.5	1,2,4-Trimethylbenzene 23 1,3,5-Trimethylbenzene 7.7
	421-CPT3-21	21	ND<50	1.7	ND<0.5	2.6	ND<0.5	ND<1	ND<0.5	ND<10	ND<0.5	None Detected<0.5

TPHg – Total Petroleum Hydrocarbon as gasoline

MTBE – Methyl Tertiary Butyl Ether

TBA – tert-Butanol

VOCs (EPA 8260B) – Other Fuel Hydrocarbon Oxygenates by 8260B

ND – Not Detected (Below Laboratory Detection Limit)

BTEX – Benzene, Toluene, Ethylbenzene, Total Xylenes

PCE – Tetrachloroethene

TCE - Trichloroethene

TABLE 4
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs by EPA 8260B
3/11/91a	STMW-1 (100.62)	14	4	5.29*	95.33	No sheen or odor	850	100	7	ND <05	150	NA	NA	NA	NA	Not Analyzed
7/03/91a				5.10*	95.52	No sheen Mild petroleum odor	5100	1800	500	95	560	NA	NA	NA	NA	Not Analyzed
11/04/91b				5.83*	94.79	No sheen Mild petroleum odor	2055	760	54	ND <5	56	NA	NA	NA	NA	Not Analyzed
1/20/92c				5.79*	94.83	Light sheen Mild petroleum odor	4600	590	36	ND <0.5	190	NA	NA	NA	NA	Not Analyzed
5/07/92d				5.80*	94.82	No sheen Mild petroleum odor	4400	66	53	4	460	NA	NA	NA	NA	Not Analyzed
8/17/92e				5.77*	94.85	No sheen Mild petroleum odor	2700	31	18	19	67	NA	NA	NA	NA	Not Analyzed
12/10/92e				6.61*	94.01	Light sheen Mild petroleum odor	35000	54	79	83	220	NA	NA	NA	NA	Not Analyzed
3/18/93e				6.68*	93.94	L. rainbow sheen Mild petroleum odor	19000	49	52	55	180	NA	NA	NA	NA	Not Analyzed
7/13/93e				7.13*	93.49	NMFP Strong petro. odor	17000	34	43	48	170	NA	NA	NA	NA	Not Analyzed
10/11/93f				7.26*	93.36	NMFP Strong petro. odor	51000	2100	2400	530	2600	NA	NA	NA	NA	Not Analyzed
1/07/94f				7.15*	93.47	NMFP Strong petro. odor	29000	1500	1600	450	2500	NA	NA	NA	NA	Not Analyzed
4/16/94f				7.10*	93.52	NMFP Strong petro. odor	20000	1100	560	3300	1600	NA	NA	NA	NA	Not Analyzed
8/03/94g				5.70*	94.92	NMFP Strong petro. odor	43000	1000	1700	640	4700	NA	NA	NA	NA	Not Analyzed
11/08/94g				6.47*	94.15	Brown NMFP Strong petro. odor	92000	9000	12000	1600	9100	NA	NA	NA	NA	Not Analyzed
2/16/95e				6.96*	93.66	Rainbow sheen/NMFP Strong petroleum odor	150000	850	540	400	1200	NA	NA	NA	NA	Not Analyzed
5/19/95e				6.84*	93.78	Brown NMFP Strong petroleum odor	59000	400	330	170	610	NA	NA	NA	NA	Not Analyzed
8/18/95e	(96.81) Resurvey			4.64*	92.17	Brown NMFP Strong petroleum odor	300000	880	780	540	1700	NA	NA	NA	NA	Not Analyzed
11/30/95e				7.34*	89.47	Thick brown sheen spots Mild petroleum odor	67000	800	910	390	1500	NA	NA	NA	NA	Not Analyzed

TABLE 4 CONT'D
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs by EPA 8260B
2/29/96e	STMW-1 (96.81)	14	4	7.83*	88.98	NMFP Strong petroleum odor	71000	120	95	18	260	NA	ND <0.5	NA	ND <0.5	None Detected<0.5
6/07/96e				7.10*	89.71	NMFP Strong petroleum odor	140000	480	490	420	120	NA	ND <0.5	NA	ND <0.5	None Detected <0.5
11/14/96e				7.29*	89.52	Brown NMFP Mild petroleum odor	140000	480	490	420	1200	ND <0.5	NA	NA	NA	Not Analyzed
2/12/97e				6.96*	89.85	Rainbow sheen spots Strong petroleum odor	42000	210	190	60	190	ND <0.5	NA	NA	NA	Not Analyzed
5/15/97e				7.33*	89.48	Brown sheen spots Mild petroleum odor	15000	83	27	45	130	NA	NA	NA	NA	Not Analyzed
8/27/97e				7.46*	89.35	NMFP Strong petroleum odor	82000	110	52	66	400	ND <0.5	NA	NA	NA	Not Analyzed
12/24/97e				6.94*	89.87	Rainbow sheen Strong petroleum odor	3700	43	18	9.1	25	ND <0.5	NA	NA	NA	Not Analyzed
3/24/98e				6.36*	90.45	Rainbow sheen Strong petroleum odor	10000	65	68	9	120	ND <0.5	NA	NA	NA	Not Analyzed
6/25/98e				6.94*	89.87	Rainbow sheen Strong petroleum odor	570	1.9	0.6	1.3	7.1	ND <0.5	NA	NA	NA	Not Analyzed
10/12/98e				7.18*	89.63	Rainbow sheen Strong petroleum odor	1000	2.4	2.1	3.2	6.9	ND <0.5	NA	NA	NA	Not Analyzed
1/12/99e				6.68*	90.13	Rainbow sheen Strong petroleum odor	6400	39	21	32	83	ND <0.5	ND <0.5	NA	ND <0.5	None Detected<0.5
4/12/99e1				7.16*	89.65	Rainbow sheen Strong petroleum odor	2800	23	19	29	54	ND <0.5	NA	NA	NA	Not Analyzed
8/28/03				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	Not Sampled
11/24/03h				8.61*	88.20	Rainbow sheen Petroleum odor	180000	30000	47000	ND <5000	20000	ND <1000	ND <5000	ND< 10000	ND <5000	None Detected<5000

TABLE 4 CONT'D
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs by EPA 8260B
3/02/04h	STMW-1 (96.81)	14	4	8.58*	88.23	Rainbow sheen Petroleum odor	84000	4200	5300	1800	9100	ND <100	ND <2.5	ND <1000	ND <2.5	1,2,4-Trimethylbenzene 3200 1,3,5-Trimethylbenzene 860 Isopropylbenzene 100 Naphthalene 580
5.28/04h				8.71*	88.10	Rainbow sheen Strong petro. Odor	99000	20000	27000	4000	22000	ND <500	ND <250	ND <5000	ND <250	1,2,4-Trimethylbenzene 2500
8/25/04h				8.64*	88.17	Rainbow sheen Petroleum odor	100000	12000	18000	4000	22000	ND <400	ND <200	ND <4000	ND <200	1,2,4-Trimethylbenzene 4800
11/22/04h				8.48*	88.33	Rainbow sheen Petroleum odor	140000	12000	16000	4200	27000	ND <400	ND <200	ND <4000	ND <200	1,2,4-Trimethylbenzene 9000 1,3,5-Trimethylbenzene 2500
3/02/05h				8.52*	88.29	Rainbow sheen Petroleum odor	70000	9000	8700	2600	16000	ND <400	ND <200	ND <4000	ND <200	1,2,4-Trimethylbenzene 4100
5/23/05h				8.98*	87.83	Rainbow sheen Petroleum odor	140000	17000	19000	4700	27000	ND <400	ND <200	ND <4000	ND <200	1,2,4-Trimethylbenzene 5700 Methylene Chloride 3400n
8/22/05h				8.08*	88.73	Rainbow sheen Petroleum odor	92000	11000	8900	3200	19000	ND <250	ND <120	ND <2500	ND <125	1,2,4-Trimethylbenzene 4600 1,3,5-Trimethylbenzene 1300 Chloroform 140
11/22/05h				9.00*	87.81	Rainbow sheen Petroleum odor	87000	14000	9200	3600	23000	140	ND <50	ND <4000	ND <50	1,2,4-Trimethylbenzene 5200 1,3,5-Trimethylbenzene 1200 Isopropylbenzene 150 n-Propylbenzene 540 Naphthalene 850
2/25/06h				8.66*	88.15	Rainbow sheen Petroleum odor	92000	13000	9200	3500	24000	ND <400	ND <200	ND <4000	ND <200	1,2,4-Trimethylbenzene 4400
5/30/06h				8.72*	88.09	Rainbow sheen Petroleum odor	80000	14000	4500	2400	11000	ND <250	ND <120	ND <2500	ND <120	1,2,4-Trimethylbenzene 4500
8/24/06h				8.66*	88.15	Rainbow sheen Petroleum odor	45000	6400	1900	2000	9800	ND <100	ND <50	ND <1000	ND <50	1,2,4-Trimethylbenzene 2900 1,3,5-Trimethylbenzene 790
12/11/06h				8.22*	88.59	Rainbow sheen Petroleum odor	42000	7500	1200	2300	8900	ND <100	ND <50	ND <1000	ND <50	1,2,4-Trimethylbenzene 3400 1,3,5-Trimethylbenzene 870 Naphthalene 620
3/13/91a	STMW-2 (100.63)	14	4	5.25*	95.38	No sheen or odor	170	1	1.7	ND <0.5	28	NA	NA	NA	NA	Not Analyzed
7/06/91a				4.75*	95.88	No sheen Mild petroleum odor	1800	640	48	44	94	NA	NA	NA	NA	Not Analyzed

TABLE 4 CONT'D
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs by EPA 8260B
11/04/91b	STMW-2 (100.63)	14	4	5.92*	94.71	No sheen Mild petroleum odor	2143	1000	57	3	19	NA	NA	NA	NA	Not Analyzed
1/20/92c				5.88*	94.75	No sheen Mild petroleum odor	14000	120	0.6	0.6	80	NA	NA	NA	NA	Not Analyzed
5/07/92d				5.70*	94.93	No sheen Mild petroleum odor	1700	32	17	8.6	48	NA	NA	NA	NA	Not Analyzed
8/17/92e				5.71*	94.92	No sheen or odor	16000	180	220	210	620	NA	NA	NA	NA	Not Analyzed
12/10/92e				6.39*	94.24	Light rainbow sheen Mild petroleum odor	44000	84	96	120	350	NA	NA	NA	NA	Not Analyzed
3/18/93e				6.50*	94.13	Light rainbow sheen Mild petroleum odor	9200	22	31	40	110	NA	NA	NA	NA	Not Analyzed
7/13/93e				6.95*	93.10	No sheen Light sewerage odor	9300	18	24	26	89	NA	NA	NA	NA	Not Analyzed
10/11/93f				7.09*	93.54	NMFP Strong petroleum odor	62000	2800	3900	670	4400	NA	NA	NA	NA	Not Analyzed
1/07/94f				6.93*	93.70	Rainbow sheen Mild petroleum odor	22000	1100	1000	280	1800	NA	NA	NA	NA	Not Analyzed
4/06/94f				6.84*	93.79	NMFP Strong petroleum odor	6600	490	140	62	330	NA	NA	NA	NA	Not Analyzed
8/03/94g				7.10*	93.53	NMFP Mild petroleum odor	4000	250	52	55	240	NA	NA	NA	NA	Not Analyzed
11/08/94g				6.19*	94.44	Brown NMFP Strong petroleum odor	4000	250	52	55	240	NA	NA	NA	NA	Not Analyzed
2/16/95e				6.72*	93.91	Rainbow sheen/NMFP Strong petroleum odor	37000	230	88	92	320	Na	NA	NA	NA	Not Analyzed
5/19/95e				6.61*	94.02	Brown sheen spots Light petroleum odor	9300	40	16	22	68	Na	NA	NA	NA	Not Analyzed
8/18/95e	(96.79) Resurvey			7.09*	89.70	Brown NMFP Light petroleum odor	2210000	720	550	520	1400	Na	NA	NA	NA	Not Analyzed
11/30/95e				7.07*	89.72	Rainbow sheen spots Light petroleum odor	66000	660	510	370	1500	NA	NA	NA	NA	Not Analyzed
2/29/96e				7.57*	89.22	Rainbow sheen Light petroleum odor	33000	75	55	52	150	NA	ND <0.5	NA	ND <0.5	None Detected<0.5
6/07/96e				6.74*	90.05	Rainbow sheen Light petroleum odor	92000	250	75	180	470	NA	ND <0.5	NA	ND <0.5	None Detected<0.5

TABLE 4 CONT'D
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs by EPA 8260B
11/14/96e	STMW-2 (96.79)	14	4	6.96*	89.83	Rainbow sheen Light petroleum odor	39000	380	230	270	720	ND <0.5	NA	NA	NA	Not Analyzed
2/12/97e				6.71*	90.08	Rainbow sheen spots Mild petroleum odor	23000	110	28	48	140	ND <0.5	NA	NA	NA	Not Analyzed
5/15/97e				7.06*	89.73	L. rainbow sheen spots Very light petro. Odor	30000	320	48	94	200	NA	NA	NA	NA	Not Analyzed
8/27/97e				7.20*	89.59	No sheen Very light petro. Odor	19000	82	9.1	18	27	ND <0.5	NA	NA	NA	Not Analyzed
12/24/97e				6.72*	90.07	Rainbow sheen Strong petroleum odor	4100	77	8.9	15	34	ND <0.5	NA	NA	NA	Not Analyzed
3/24/98e1				6.10*	90.69	Rainbow sheen Strong petroleum odor	3300	31	4.2	1.6	26	ND <0.5	NA	NA	NA	Not Analyzed
6/25/98e1				5.52*	91.27	Rainbow sheen Light petroleum odor	2200	20	5.4	12	21	ND <0.5	NA	NA	NA	Not Analyzed
10/12/98e1				6.92*	89.87	Rainbow sheen Light petroleum odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	Not Analyzed
1/12/99e1				6.90*	89.89	Rainbow sheen Strong petroleum odor	4500	24	14	15	49	ND <0.5	ND <0.5	NA	ND <0.5	None Detected<0.5
4/12/99e1				9.98*	89.81	Rainbow sheen Strong petroleum odor	1500	19	12	21	37	ND <0.5	ND <0.5	NA	ND <0.5	None Detected<0.5
8/28/03h				8.32*	88.47	Rainbow sheen Petroleum odor	15000	570	ND <100	430	500	ND <20	ND <100	ND <200	ND <100	1,2,4-Trimethylbenzene 960 1,3,5-Trimethylbenzene 290 n-Propylbenzene 220 Naphthalene 170
11/24/03h				9.62*	87.17	Rainbow sheen Petroleum odor	1200	100	ND <10	38	29	ND <2	ND <10	ND <20	ND <10	1,2,4-Trimethylbenzene 40 1,3,5-Trimethylbenzene 16 n-Propylbenzene 32
3/02/04h				8.28*	88.51	Rainbow sheen Petroleum odor	4700i	430	6.5	140	90	ND <5	ND <25	ND <50	ND <25	1,2,4-Trimethylbenzene 120 1,3,5-Trimethylbenzene 45 Isopropylbenzene 19 n-Propylbenzene 71 Naphthalene 41
5/28/04h				8.45*	88.34	Rainbow sheen Strong petroleum odor	9500	1600	42	280	220	ND <20	ND <100	ND <200	ND <100	1,2,4-Trimethylbenzene 230 1,3,5-Trimethylbenzene 130 n-Propylbenzene 180 Naphthalene 120

TABLE 4 CONT'D
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs by EPA 8260B
8/25/04h	STMW-2 (96.79)	14	4	8.36*	88.43	Rainbow sheen Petroleum odor	4000	3400	8.5	150	87	ND <10	ND <5	ND <100	ND <5	1,2,4-Trimethylbenzene 160 1,3,5-Trimethylbenzene 73 n-Propylbenzene 91 Naphthalene 51
11/22/04h				8.18*	88.61	Rainbow sheen Petroleum odor	11000	1200	33	490	380	ND <20	ND <100	ND <200	ND <100	1,2,4-Trimethylbenzene 510 1,2,3-Trimethylbenzene 210 n-Propylbenzene 200 Naphthalene 240
3/02/05h				8.12*	88.67	Rainbow sheen Petroleum odor	6500	520	ND <20	160	69	ND <40	ND <20	ND <400	ND <20	None Detected<200
5/23/05h				8.64*	88.15	Rainbow sheen Petroleum odor	8400	550	ND <12	100	19	ND <25	ND <12	ND <250	ND <12	Methylbne Chloride 130no
8/22/05h				7.74*	89.05	Rainbow sheen Petroleum odor	6200	480	12	110	31	ND <10	ND <5	ND <100	ND <5	1,2,4-Trimethylbenzene 60 Chloroform 5.5 n-Propylbenzene 83 Naphthalene 53
11/22/05h				8.68*	88.11	Rainbow sheen Petroleum odor	4600	270	4.8	80	16	ND <2	ND <1	ND <10	ND <1	1,2,4-Trimethylbenzene 37 1,3,5-Trimethylbenzene 27 Isopropylbenzene 15 n-Butyl benzene 29 n-Propylbenzene 68 Naphthalene 29
2/25/06h				8.46*	88.33	Rainbow sheen Petroleum odor	18000	2100	28	460	120	ND <50	ND <25	ND <500	ND <25	1,2,4-Trimethylbenzene 410 cis-1,2-Dichloroethene 47 n-Propylbenzene 280
5/30/06h				8.40*	88.39	Rainbow sheen Petroleum odor	5100	390	84	150	75	ND <10	ND <5	ND <100	ND <5	1,2,4-Trimethylbenzene 67 1,3,5-Trimethylbenzene 53 n-Propylbenzene 82 Naphthalene 62
8/24/06h				8.40*	88.39	Rainbow sheen Petroleum odor	11000	1400	54	310	81	ND <20	ND <10	ND <200	ND <10	1,2,4-Trimethylbenzene 130 1,3,5-Trimethylbenzene 110 n-Propylbenzene 180
12/11/06h				7.86*	88.93	Rainbow sheen Petroleum odor	39000	1900	420	660	420	ND <20	ND <10	ND <200	ND <200	1,2,4-Trimethylbenzene 590 1,3,5-Trimethylbenzene 310 n-Propylbenzene 360 Naphthalene 290

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TABLE 4 CONT'D
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs by EPA 8260B
11/14/96e	STMW-3 (95.24)	15	2.5	5.34*	89.90	No sheen or odor	210	9.1	2.8	4.7	13	ND <0.5	NA	NA	NA	Not Analyzed
2/12/97e				5.14*	90.10	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	Not Analyzed
5/15/97e				5.42*	89.82	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	NA	Not Analyzed
8/27/97e				5.58*	89.66	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	Not Analyzed
12/24/97e				5.14*	90.10	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	Not Analyzed
3/24/98e1				4.54*	90.70	No sheen or odor	13000	87	23	80	130	ND <0.5	NA	NA	NA	Not Analyzed
6/25/98e1				5.06*	90.18	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	Not Analyzed
10/12/98e1				5.30*	89.94	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	Not Analyzed
1/12/99e1				5.04*	90.20	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	ND <0.5	None Detected<0.5
4/12/99e1				5.28*	89.97	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	Not Analyzed
8/28/03h				6.64*	88.60	No sheen or odor	ND <50	ND <5	ND <5	ND <5	ND <5	ND <1	ND <5	ND <10	ND <5	None Detected<5
11/24/03h				7.04*	88.20	No sheen or odor	ND <50	ND <5	ND <5	ND <5	ND <5	ND <1	ND <5	ND <10	ND <5	None Detected<5
3/02/04h				6.46*	88.78	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
5/28/04h				6.71*	88.53	No sheen or odor	ND <25	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
8/25/04h				6.64*	88.60	No sheen or odor	ND <25	0.84	ND <0.5	ND <0.5	ND <1	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
11/22/04h				6.38*	88.86	No sheen or odor	ND <25	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
3/02/05h				6.34*	88.90	No sheen or odor	ND <25	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
5/23/05h				6.85*	88.39	No sheen or odor	ND <50	ND <0.5	0.81	ND <0.5	0.56	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5

**TABLE 4 CONT'D
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)**

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs by EPA 8260B
8/22/05h	STMW-3 (95.24)	15	2.5	7.00*	88.24	No sheen Sewerage odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
11/22/05h				6.94*	88.30	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
2/25/06h				6.72*	88.52	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
5/30/06h				6.64*	88.60	No sheen Sewerage odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
8/24/06h				6.64*	88.60	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
12/11/06h				5.84*	89.40	No sheen or odor	ND <50	0.64	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
11/14/96e	STMW-4 (94.49)	15	2	4.67*	89.74	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	Not Analyzed
2/12/97e				4.45*	89.96	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	Not Analyzed
5/15/97e				4.75*	89.66	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	NA	Not Analyzed
8/27/97e				4.87*	89.54	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	Not Analyzed
12/24/97e				4.44*	89.97	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	Not Analyzed
3/24/98e1				3.88*	90.53	No sheen or odor	13000	87	23	80	130	ND <0.5	NA	NA	NA	Not Analyzed
6/25/98e1				4.40*	90.01	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	Not Analyzed
10/12/98e1				4.68*	89.73	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	Not Analyzed
1/12/99e1				4.38*	90.03	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND<0.5	NA	ND <0.5	None Detected<0.5
4/12/99e1				4.62*	89.79	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	Not Analyzed
8/28/03h				5.92*	88.49	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <5	ND <10	ND <5	None Detected<5

TABLE 4 CONT'D
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs by EPA 8260B
11/24/03h	STMW-4 (94.49)	15	2	6.28*	88.13	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <5	ND <10	ND <5	None Detected<5
3/02/04h				5.70*	88.71	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
5/28/04h				5.94*	88.47	No sheen or odor	ND <25	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
8/25/04h				5.90*	88.50	No sheen or odor	ND <25	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
11/22/04h				5.56*	88.85	No sheen or odor	ND <25	1.1	0.57	ND <0.5	ND <1	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
3/02/05h				5.60*	88.81	No sheen or odor	ND <25	ND <0.5	ND <0.5	ND <0.5	ND <0.51	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
5/23/05h				6.09*	88.32	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
8/22/05h				6.22*	88.19	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
11/22/05h				6.16*	88.33	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
2/25/06h				6.02*	88.47	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
5/30/06h				5.92*	88.57	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
8/24/06h				5.88*	88.61	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
12/11/06h				5.19*	89.30	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	Chloroform 4.2
11/14/96e	STMW-5 (94.49)	15	2	5.20*	89.29	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	ND <0.5	None Detected<0.5
2/12/97e				4.99*	89.50	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	ND <0.5	None Detected<0.5
5/15/97e				5.30*	89.19	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	NA	Not Analyzed
8/27/97e				5.33*	89.16	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	Not Analyzed

TABLE 4 CONT'D
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs by EPA 8260B
12/24/97e	STMW-5 (94.49)	15	2	4.94*	89.55	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	Not Analyzed
3/24/98e1				4.52*	89.97	No sheen Slight sewerage odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	Not Analyzed
6/25/98e1				5.00*	89.49	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	Not Analyzed
10/12/98e1				5.18*	89.31	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	Not Analyzed
1/12/99e1				5.02*	89.47	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	ND <0.5	None Detected<0.5
4/12/99e1				5.38*	89.11	No sheen Light sewerage odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	Not Analyzed
8/28/03h				6.62*	87.87	No sheen or odor	ND <50	ND <5	ND <5	ND <5	ND <5	ND <1	ND <5	ND <10	ND <5	None Detected<5
11/24/03h				6.84*	87.65	No sheen or odor	ND <50	ND <5	ND <5	ND <5	ND <5	ND <1	ND <5	ND <10	ND <5	None Detected<5
3/02/04h				6.26*	88.23	No sheen or odor	62j	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <1	1.9	ND <10	ND <0.5	None Detected<0.5
5/28/04h				6.52*	87.479	No sheen or odor	ND <25	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <1	1.6	ND <10	ND <0.5	None Detected<0.5
8/25/04h				6.50*	87.99	No sheen or odor	ND <25	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <1	1.4	ND <10	ND <0.5	None Detected<0.5
11/22/04h				6.08*	88.41	No sheen or odor	ND <25	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	2.1	ND <10	0.6	None Detected<0.5
3/02/05h				6.14*	88.35	No sheen or odor	ND <25	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	2	ND <10	0.5	None Detected<0.5
5/23/05h				6.56*	87.93	No sheen or odor	ND <50	1.3	2.6	ND <0.5	2.6	ND <1	1.1	ND <10	ND <0.5	None Detected<0.5
8/22/05h				6.70*	87.79	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	1.5	ND <10	ND <0.5	None Detected<0.5
11/22/05h				6.64*	87.85	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	1.8	ND <10	0.78	None Detected<0.5
2/25/06h				6.58*	87.91	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	1.6	ND <10	ND <0.5	None Detected<0.5

TABLE 4 CONT'D
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs by EPA 8260B
5/30/06h	STMW-5 (94.49)	15	2	6.50*	87.99	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	2.4	ND <10	0.54	None Detected<0.5
8/24/06h				6.46*	88.03	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	1.2	ND <10	ND <0.5	None Detected<0.5
12/11/06h				5.54*	88.95	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	Chloroform 3.7
3/13/91a	MW-2 (99.36)	11.50	5	4.29*	95.07	No sheen Mild petroleum odor	25000	2600	4400	ND <0.5	5800	NA	NA	NA	NA	Not Analyzed
7/03/91a				5.83*	93.53	No sheen Strong petroleum odor	21000	2800	3200	ND <0.5	4300	NA	NA	NA	NA	Not Analyzed
11/04/91b				4.79*	94.57	No sheen Mild petroleum odor	3589	1700	119	9	56	NA	NA	NA	NA	Not Analyzed
1/20/92c				4.60*	94.76	No sheen Mild petroleum odor	380	38	1.3	ND <0.5	34	NA	NA	NA	NA	Not Analyzed
5/27/92d				4.42*	94.94	No sheen Mild petroleum odor	10000	62	32	44	160	NA	NA	NA	NA	Not Analyzed
8/27/92e				4.43*	94.96	No sheen Mild petroleum odor	6000	48	27	65	180	NA	NA	NA	NA	Not Analyzed
12/10/92e				4.94*	94.45	No sheen Mild petroleum odor	7200	15	23	32	82	NA	NA	NA	NA	Not Analyzed
3/18/93e				5.11*	94.28	No sheen Light sewerage odor	1400	8.3	11	13	48	NA	NA	NA	NA	Not Analyzed
7/13/93e				5.53*	93.86	Rainbow sheen Light petroleum odor	2400	4.7	6.2	6.8	25	NA	NA	NA	NA	Not Analyzed
10/11/93f				5.64*	93.75	No sheen or odor	410	43	2.6	4.5	12	NA	NA	NA	NA	Not Analyzed
1/07/94f				5.52*	93.87	No sheen or odor	240	25	3.1	ND <0.5	20	NA	NA	NA	NA	Not Analyzed
4/06/94f				5.82*	93.57	No sheen or odor	3000	120	23	22	190	NA	NA	NA	NA	Not Analyzed
8/03/94g				7.47*	91.92	No sheen or odor	500	57	1	17	25	NA	NA	NA	NA	Not Analyzed
11/08/94g				4.69*	94.70	No sheen or odor	8000	650	85	50	1000	NA	NA	NA	NA	Not Analyzed
2/16/95e				5.31*	94.08	No sheen or odor	660	6.4	1	5.6	8.9	NA	NA	NA	NA	Not Analyzed
5/19/95e				5.17*	94.22	No sheen Mild sewerage odor	1900	11	10	23	26	NA	NA	NA	NA	Not Analyzed
8/18/95e	(95.22) Resurvey			5.65*	89.57	No sheen Light sewerage odor	1800	15	1.6	15	20	NA	NA	NA	NA	Not Analyzed

TABLE 4 CONT'D
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs by EPA 8260B
11/30/95e	MW-2 (95.22)	11.50	5	5.64*	89.58	No sheen or odor	120	9.3	ND <0.5	0.5	3.5	NA	NA	NA	NA	Not Analyzed
2/29/96e				4.61*	90.61	No sheen Light sewerage odor	1200	6.1	1.2	6.2	8.7	NA	ND <0.5	NA	ND <0.5	None Detected<0.5
6/07/96e				5.37*	89.85	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	ND <0.5	NA	ND <0.5	None Detected<0.5
11/14/96e				5.55*	89.67	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	NA	Not Analyzed
2/12/97e				5.14*	90.08	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	NA	Not Analyzed
5/15/97e				5.63*	89.59	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	NA	Not Analyzed
8/27/97e				5.73*	89.49	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	NA	Not Analyzed
12/24/97e				5.30*	89.91	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	NA	Not Analyzed
3/24/98e1				4.76*	90.46	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	NA	Not Analyzed
6/25/98e1				5.28*	89.94	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	NA	Not Analyzed
10/12/98e1				5.50*	89.72	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	NA	Not Analyzed
1/12/99e1				5.28*	89.94	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	ND <0.5	NA	ND <0.5	None Detected<0.5
4/12/99e1				5.54*	89.68	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	NA	Not Analyzed
8/28/03h				6.86*	88.36	No sheen or odor	ND <50	ND <5	ND <5	ND <5	ND <5	ND <1	ND <5	ND <10	ND <5	None Detected<5
11/24/03h				7.20*	88.02	No sheen or odor	ND <50	ND <5	ND <5	ND <5	ND <5	ND <1	ND <5	ND <10	ND <5	None Detected<5
3/02/04h				6.64*	88.58	No sheen or odor	110k	27	ND <05	ND <0.5	ND <1	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
5/28/04h				6.86*	88.36	No sheen or odor	ND <25	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
8/25/04h				6.82*	88.40	No sheen or odor	ND <25	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5

TABLE 4 CONT'D
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs by EPA 8260B
11/22/04h	MW-2 (95.22)	11.50	5	6.52*	88.70	No sheen or odor	ND <25	ND <0.5	ND <0.5	ND <05	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
3/02/05h				6.52*	88.70	No sheen or odor	ND <25	ND <0.5	ND <0.5	ND <05	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
5/23/05h				7.00*	88.22	No sheen or odor	ND <50	ND <0.5	0.98	ND <0.5	0.6	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
8/22/05h				7.12*	88.10	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
11/22/05h				7.04*	88.18		ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
2/25/06h				6.92*	88.30	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
5/30/06h				6.86*	88.36	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
8/24/06h				6.80*	88.42	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
12/11/06h				5.86*	89.36	No sheen or odor	100	10	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	Chloroform 4
3/13/91a	MW-3 (100.09)	12	5	4.67*	95.42	Trace of sheen Moderate petro. odor	47000	9100	9900	270	8110	NA	NA	NA	NA	Not Analyzed
7/03/91a				5.75*	94.34	Trace of sheen Moderate petro. odor	40000	12000	4500	1200	4000	NA	NA	NA	NA	Not Analyzed
11/04/91b				5.67*	94.42	Trace of sheen Strong petro. odor	102700	38800	19100	3200	8300	NA	NA	NA	NA	Not Analyzed
1/20/92c				5.54*	94.55	Light sheen Strong petro. odor	510000	27000	27000	5800	45000	NA	NA	NA	NA	Not Analyzed
5/07/92d				5.18*	9491	Rainbow sheen Strong petro. odor	43000	250	230	120	470	NA	NA	NA	NA	Not Analyzed
8/17/92e				5.24*	94.85	Rainbow sheen Mild petroleum odor	140000	2500	2400	1700	5500	NA	NA	NA	NA	Not Analyzed
12/10/92e				4.42*	95.67	Light sheen Strong petro. odor	94000	400	410	430	1100	NA	NA	NA	NA	Not Analyzed

TABLE 4 CONT'D
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs by EPA 8260B
3/18/93e	MW-3 (100.09)	12	5	5.39*	94.70	Thick NMFP Mild petroleum odor	51000	92	130	160	590	NA	NA	NA	NA	Not Analyzed
7/13/93e				6.07*	94.02	Light rainbow sheen spots/Strong petroleum odor	80000	160	210	230	820	NA	NA	NA	NA	Not Analyzed
10/11/93f				6.34*	93.75	NMFP Strong petro. Odor	180000	14000	8800	320	9400	NA	NA	NA	NA	Not Analyzed
1/07/94f				6.34*	93.75	NMFP Strong petro. Odor	120000	9500	4600	230	7800	NA	NA	NA	NA	Not Analyzed
4/06/94f				6.14*	93.95	No sheen or odor	96000	6000	3100	95	6200	NA	NA	NA	NA	Not Analyzed
8/03/94g				6.34*	93.75	Few sheen spots Mild petroleum odor	200000	6500	5700	1500	18000	NA	NA	NA	NA	Not Analyzed
11/08/94g				3.89*	96.20	Brown NMFP Strong petro. Odor	86000	7400	8500	2200	12000	NA	NA	NA	NA	Not Analyzed
2/16/95e				5.90*	94.19	Brown NMFP Strong petro. Odor	59000	280	120	120	570	NA	NA	NA	NA	Not Analyzed
5/19/95e				4.15*	95.94	Brown NMFP Strong petro. Odor	12000	150	68	69	160	NA	NA	NA	NA	Not Analyzed
8/18/95e	(95.62) Resurvey			6.08*	89.54	Brown NMFP Mild petroleum odor	33000	74	28	38	100	NA	NA	NA	NA	Not Analyzed
11/30/95e				6.26*	89.36	Rainbow sheen spots Light petroleum odor	100000	1300	510	250	2400	NA	NA	NA	NA	Not Analyzed
2/29/96e				4.37*	91.25	Rainbow sheen spots Mild petroleum odor	15000	12	3.8	10	24	NA	80	80	110	cis-1,2-Dichloroethene 35 Chloroform 160
6/07/96e				5.90*	89.72	Rainbow sheen spots Mild petroleum odor	5200	23	6.9	14	34	NA	61	61	110	Chloroform 31
11/14/96e				6.14*	89.48	Rainbow sheen Light petroleum odor	33000	320	130	250	620	ND <0.5	ND <0.5	ND <0.5	ND <0.5	None Detected<0.5
2/12/97e				4.45*	91.17	No sheen or odor	15000	43	9	20	41	ND <0.5	ND <0.5	ND <0.5	ND <0.5	None Detected<0.5
5/15/97e				5.77*	89.85	No sheen or odor	15000	68	30	60	110	NA	ND <0.5	ND <0.5	ND <0.5	None Detected<0.5
8/27/97e				5.98*	89.64	No sheen Mild sewerage odor	15000	22	5.2	9.7	19	ND <0.5	ND <0.5	ND <0.5	ND <0.5	None Detected<0.5

TABLE 4 CONT'D
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs by EPA 8260B
12/24/97e	MW-3 (95.62)	12	5	5.70*	89.92	Rainbow sheen Strong petro. odor	15000	150	10	81	110	ND <0.5	ND <0.5	ND <0.5	ND <0.5	None Detected<0.5
3/24/98e1				5.06*	90.56	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	None Detected<0.5
6/25/98e1				5.66*	89.96	Light sheen spots Light sewerage odor	23000	100	22	86	130	ND <0.5	ND <5	ND <5	ND <5	None Detected<5
10/12/98e1				5.18*	90.44	Rainbow sheen Light petroleum odor	23000	26	21	48	210	ND <0.5	ND <5	ND <5	ND <5	None Detected<5
1/12/99e1				5.42*	90.20	Rainbow sheen Sewerage odor	7200	48	32	44	99	ND <0.5	ND <0.5	ND <0.5	ND <0.5	None Detected<0.5
4/12/99e1				6.02*	89.60	No sheen Strong sewerage odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <0.5	None Detected<0.5
8/28/03h				8.64*	86.98	No sheen or odor	2600	54	ND <25	110	61	ND <5	ND <25	ND <50	ND <25	1,2,4-Trimethylbenzene 190 1,3,5-Trimethylbenzene 38 n-Propylbenzene 40 Naphthalene 29
11/24/03h				7.96*	87.66	Rainbow sheen Petroleum odor	2800	64	ND <25	140	44	ND <5	ND <25	ND <50	ND <25	1,2,4-Trimethylbenzene 120 1,3,5-Trimethylbenzene 30 n-Propylbenzene 55
3/02/04h				6.36*	89.26	No sheen or odor	580	11	ND <5	ND <5	ND <10	ND <10	850	ND <100	190	cis-1,2-Dichloroethene 440 Vinyl Chloride 5.3
5/28/04h				7.82*	87.80	No sheen or odor	2900	ND <25	ND <25	ND <25	ND <50	ND <50	2600	ND <500	630	cis-1,2-Dichloroethene 1200
8/25/04h				7.80*	87.82	Light rainbow sheen Sewerage odor	870	23	ND <5	13	ND <10	ND <10	5.2	ND <100	8.8	cis-1,2-Dichloroethene 740 Vinyl Chloride 170
11/22/04h				5.98*	89.64	No sheen or odor	1200m	14	ND <10	ND <10	ND <10	ND <20	790	ND <200	210	cis-1,2-Dichloroethene 460
3/02/05h				5.80*	89.82	No sheen or odor	3600m	ND <50	ND <50	ND <50	ND <50	ND <100	2500	ND <1000	480	cis-1,2-Dichloroethene 1200
5/23/05h				6.94*	88.68	No sheen Sewerage odor	2400	ND <0.5	ND <0.5	ND <0.5	0.52	ND <1	31	ND <10	5.3	cis-1,2-Dichloroethene 20 Methylene Chloride 9.5no Vinyl Chloride 0.72
8/22/05h				7.92*	87.70	No sheen Sewerage odor	1700	25	ND <25	ND <25	ND <25	ND <50	60	ND <500	27	cis-1,2-Dichloroethene 2400 Chloroform 26 Vinyl Chloride 520

TABLE 4 CONT'D
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs by EPA 8260B
11/22/05h	MW-3 (95.62)	12	5	7.70*	87.92	No sheen or odor	1000	22	3.4	5	2.7	ND <5	2.6	ND <200	ND <2.5	cis-1,2-Dichloroethene 280 Isopropylbenzene 6.41 Vinyl Chloride 170
2/25/06h				7.52*	88.10	No sheen or odor	480	7.7	ND <5	ND <5	ND <5	ND <10	67	ND <100	70	cis-1,2-Dichloroethene 720 Vinyl Chloride 33
5/30/06h				7.64*	87.98	No sheen or odor	2000	ND <25	ND ,25	ND <25	ND <25	ND <50	2500	ND <500	430	Vinyl Chloride 160
8/24/06h				7.58*	88.04	No sheen Sewerage odor	740	15	11	ND <10	ND <10	ND <20	270	ND <200	67	Vinyl Chloride 260
12/11/06h				4.22*	91.40	No sheen or odor	460	6.4	ND <1	ND <1	ND <1	ND <2	160	ND <20	22	Vinyl Chloride 6.1
3/13/91a	OTMW-5 (100.87)	N/A	N/A	5.02	95.85	No sheen Mild petroleum odor	120	460	12	1	4	NA	NA	NA	NA	Not Analyzed
7/03/91a				5.75	95.12	No sheen Mild petroleum odor	810	320	43	16	43	NA	NA	NA	NA	Not Analyzed
11/04/91b				5.77	95.10	No sheen Mild petroleum odor	971	100	19	5	13	NA	NA	NA	NA	Not Analyzed
1/20/91c				5.58	95.29	No sheen Mild petroleum odor	90	0.7	0.7	ND <0.5	11	NA	NA	NA	NA	Not Analyzed
5/07/92d				5.43	95.44	No sheen Mild petroleum odor	180	27	14	8.2	35	NA	NA	NA	NA	Not Analyzed
8/17/92e				5.45	95.42	No sheen or odor	87	12	9.8	4	42	NA	NA	NA	NA	Not Analyzed
12/10/92e				7.30	93.57	No sheen Mild petroleum odor	540	4.7	4.5	6.4	19	NA	NA	NA	NA	Not Analyzed
3/18/93e				7.11	93.76	No sheen Light sewerage odor	570	6	7.6	11	29	NA	NA	NA	NA	Not Analyzed
7/13/93e				7.45	93.42	No sheen or odor	3500	6.8	8.6	9.5	36	NA	NA	NA	NA	Not Analyzed
10/11/93f				7.65	93.22	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	NA	Not Analyzed
1/07/94f				7.67	93.20	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	NA	Not Analyzed
8/17/92e	OTMW-6 (N/A)	N/A	N/A	4.88	N/A	No sheen or odor	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	NA	NA	NA	NA	Not Analyzed

TABLE 4 CONT'D
GROUNDWATER MONITORING DATA (feet)
AND ANALYTICAL RESULTS (µg/L)

TPHg – Total Petroleum Hydrocarbons as gasoline

MTBE – Methyl Tertiary Butyl Ether

Perf. – Perforation

PCE – Tetrachloroethene

NS – Not Sampled

ND – Not Detected (Below Laboratory Detection Limit)

* Well screens are not submerged

a – Laboratory analyses were analyzed by Anametrix Inc.

b – Laboratory analyses were analyzed by Carter Analytical Laboratory

c – Laboratory analyses were analyzed by Chromalab, Inc.

d – Laboratory analyses were analyzed by Geochem Labs

e – Laboratory analyses were analyzed by Priority Environmental Labs

f – Laboratory analyses were analyzed by Argon Mobil Labs

g – Laboratory analyses were analyzed by North State Environmental

h – Laboratory analyses were analyzed by Entech Analytical Labs

i – TPH as gasoline value reported possibly aged gasoline

j – TPH as gasoline reported value is the result of higher boiling point compounds within the TPH as gasoline quantitation range

k – TPH as gasoline reported value is the results of a high concentration of Benzene and of higher boiling point compounds within TPH as gasoline quantitation range

l – TPH as gasoline value is the result of discrete peaks within the TPH as gasoline quantitation range

m – A typical pattern. No indication of gasoline

n – This analyte is a common laboratory contaminant

o – This analyte was found in the associated Method Blank

1 – Laboratory was not state certified since January 30, 1998

BTEX – Benzene, Toluene, Ethylbenzene, Total Xylenes

GW Elev. – Groundwater Elevation

cis-1,2-Dichl – cis-1,2-Dichloroethene

TCE – Trichloroethene

NA – Not Analyzed

N/A – Not Available

* Well screens are submerged

TABLE 5
SURFACE WATER SAMPLES FROM EL CERRITO CREEK
ANALYTICAL RESULTS IN MICROGRAM PER LITER (µg/L)

Date	Sample No./Description	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	VOCs EPA 8260B
8/03/89	C-1 ~20' up-stream from storm drain outlet	ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
12/08/89		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/03/90		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/15/90		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/17/90		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/02/90		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/08/90		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/19/90		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/06/90		65	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/13/90		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
4/06/90		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
11/27/90		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
12/18/90		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/11/91		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/06/91		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/06/91		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/29/91		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
4/23/91		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/01/92		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/10/92		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/21/92		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/09/92		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/20/92		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/23/93		ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	NA	NA	Not Analyzed
2/29/96		130	0.9	ND<0.5	1.4	6.2	NA	ND<0.5	NA	ND<0.5	None Detected<0.5
6/07/96		ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	ND<0.5	NA	ND<0.5	None Detected<0.5
11/04/96		NS	NS	NS	NS	NS	NS	NS	NS	NS	Not Sampled
1/12/99		ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	ND<0.5	None Detected<0.5
12/11/06		ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<10	ND<0.5	None Detected<0.5

TABLE 5 CONT'D
SURFACE WATER SAPLES FROM EL CERRITO CREEK
ANALYTICAL RESULTS IN MICROGRAM PER LITER (µg/L)

Date	Sample No./Description	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	VOCs EPA 8260B
8/03/89	C-2 storm drain outlet	470000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
12/08/89		33000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/03/90		99000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/15/90		16000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/17/90		15000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/02/90		16000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/08/90		7000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/19/90		26000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/06/90		30000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/13/90		30000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
4/06/90		42000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
11/27/90		160000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
12/18/90		33000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/11/91		14000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/06/91		11000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/06/91		55000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/29/91		31000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
4/23/91		28000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/01/92		3300	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/10/92		20000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/21/92		8900	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/09/92		2100	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/20/92		650	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/23/93		450	1.6	3.1	4.2	17	NA	NA	NA	NA	Not Analyzed
2/29/96		2700	7.2	3.3	5.8	13	NA	ND<0.5	NA	ND<0.5	None Detected<0.5
6/07/96		ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	63	NA	69	Chloroform 19
11/04/96*		1300	7.8	1.7	11	14	ND<0.5	ND<0.5	NA	ND<0.5	None Detected<0.5
1/12/99		ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	ND<0.5	None Detected<0.5
12/11/06		ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<10	ND<0.5	Chloroform 0.97

ENVIRO SOIL TECH CONSULTANTS

TABLE 5 CONT'D
SURFACE WATER SAMPLES FROM EL CERRITO CREEK
ANALYTICAL RESULTS IN MICROGRAM PER LITER (µg/L)

Date	Sample No./Description	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	VOCs EPA 8260B
8/03/89	C-3 confluence of the storm drain flow and El Cerrito Creek	NS	NS	NS	NS	NS	NS	NS	NS	NS	Not Sampled
12/08/89		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/03/90		900	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/15/90		840	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/17/90		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/02/90		60	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/08/90		100	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/19/90		30	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/06/90		600	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/13/90		360	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
4/06/90		3000	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
11/27/90		4400	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
12/18/90		66	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/11/91		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/06/91		1100	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/06/91		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/29/91		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
4/23/91		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/01/92		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/10/92		830	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/21/92		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/09/92		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/20/92		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
12/14/92		280	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/23/93		190	0.8	2.6	3.6	9.5	NA	NA	NA	NA	Not Analyzed
2/29/96		ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	ND<0.5	NA	ND<0.5	None Detected<0.5
6/07/96		ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	ND<0.5	NA	ND<0.5	None Detected<0.5
11/04/96		NS	NS	NS	NS	NS	NS	NS	NS	NS	Not Sampled
1/12/99		NS	NS	NS	NS	NS	NS	NS	NS	NS	Not Sampled
12/11/06		ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<10	ND<0.5	None Detected<0.5

ENVIRO SOIL TECH CONSULTANTS

TABLE 5 CONT'D
SURFACE WATER SAMPLES FROM EL CERRITO CREEK
ANALYTICAL RESULTS IN MICROGRAM PER LITER (µg/L)

Date	Sample No./Description	TPHg	B	T	E	X	MTBE	PCE	TBA	TCE	VOCs EPA 8260B
8/03/89	C-4 50' down-stream from the storm drain	2700	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
12/08/89		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/03/90		800	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/15/90		160	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/17/90		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/02/90		130	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/08/90		140	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/19/90		200	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/06/90		120	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/13/90		100	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
4/06/90		400	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
11/27/90		55	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
12/18/90		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/11/91		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
2/06/91		ND<50	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/06/91		120	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
3/29/91		57	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
4/23/91		86	NA	NA	NA	NA	NA	NA	NA	NA	Not Analyzed
1/01/92		NS	NS	NS	NS	NS	NS	NS	NS	NS	Not Sampled
1/10/92		NS	NS	NS	NS	NS	NS	NS	NS	NS	Not Sampled
2/21/92		NS	NS	NS	NS	NS	NS	NS	NS	NS	Not Sampled
3/09/92		NS	NS	NS	NS	NS	NS	NS	NS	NS	Not Sampled
3/20/92		NS	NS	NS	NS	NS	NS	NS	NS	NS	Not Sampled
1/23/93		57	ND<0.5	ND<0.5	1.4	3.6	NA	NA	NA	NA	Not Analyzed
2/29/96		ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	ND<0.5	NA	ND<0.5	None Detected<0.5
6/07/96		ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	ND<0.5	NA	ND<0.5	None Detected<0.5
11/04/96		ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	ND<0.5	None Detected<0.5
1/12/99		NS	NS	NS	NS	NS	NS	NS	NS	NS	Not Sampled
12/11/06		ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<10	ND<0.5	None Detected<0.5

ENVIRO SOIL TECH CONSULTANTS

TABLE 5 CONT'D
SURFACE WATER SAMPLES FROM EL CERRITO CREEK
ANALYTICAL RESULTS IN MICROGRAM PER LITER ($\mu\text{g/L}$)

TPHg – Total Petroleum Hydrocarbon as gasoline

MTBE – Methyl Tertiary Butyl Ether

TBA – tert-Butanol

VOCs – Volatile Organic Compounds

NS – Not Sampled

* C-2 was also labeled as W-1 in sample date 11/04/96

BTEX – Benzene, Toluene, Ethylbenzene, Total Xylenes

PCE – Tetrachloroethene

TCE – Trichloroethene

NA – Not Analyzed

ND – Not Detected (Below Laboratory Detection Limit)

▪ C-4 was also labeled as W-2 in sample date 11/04/96

A P P E N D I X "B"

FIGURES

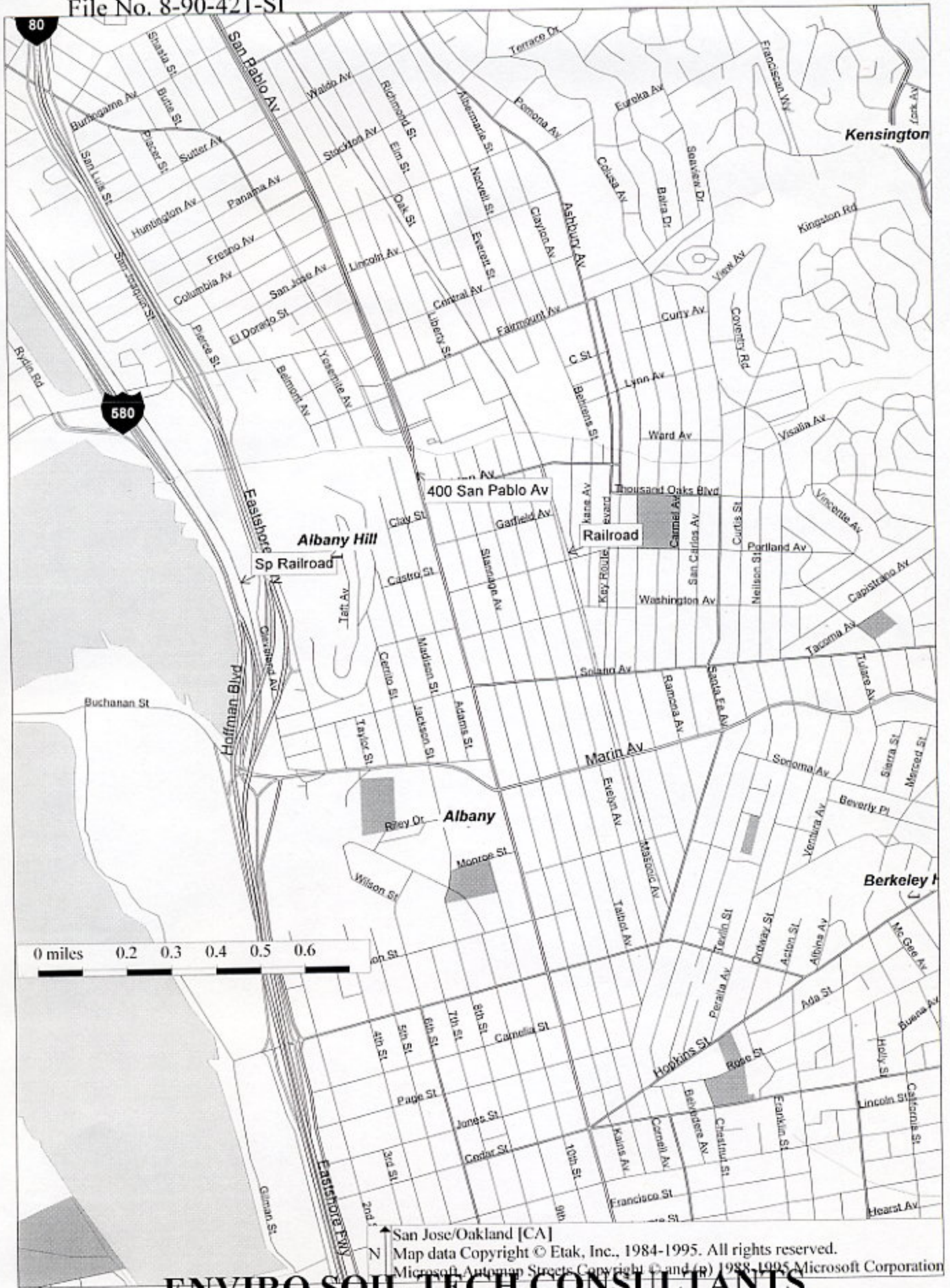


Figure 1

**Enviro Soil Tech
Consultants**

131 Tully Road
San Jose, CA 95112

PROJECT
Plaza Car Wash
400 San Pablo Ave
Albany, California

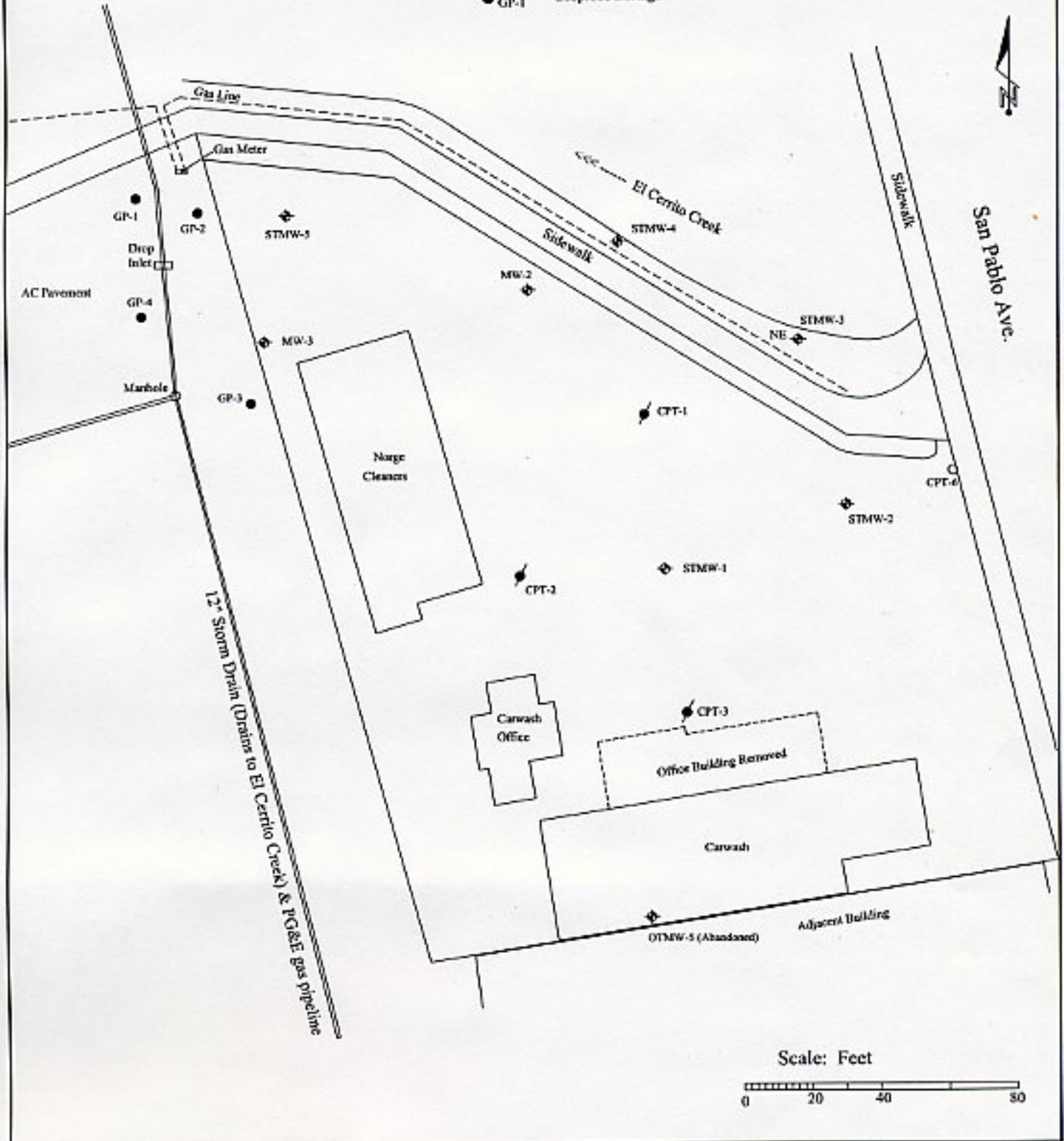
PROJECT # 8-90-421-SI
DATE: 1/4/2007

Figure 2

Site Map

Legend

- ◆ - Monitor Well
- - CPT-1 = Cone Penetrometer Boring
- - GP-1 = Geoprobe Borings



**Enviro Soil Tech
Consultants**

131 Tully Road
San Jose, CA 95112

PROJECT
Plaza Car Wash
400 San Pablo Ave
Albany, California

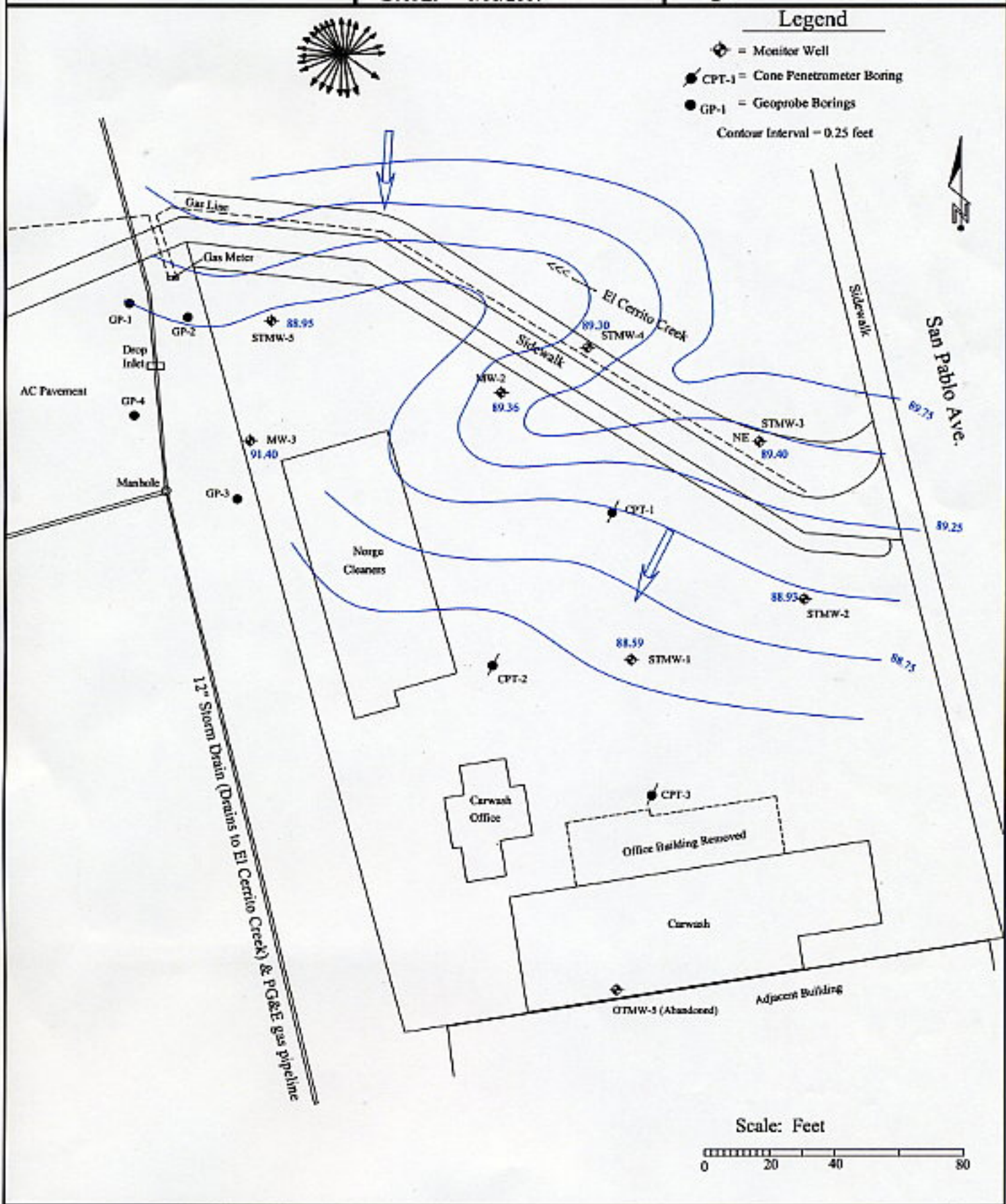
PROJECT # 8-90-421-SI
DATE: 1/10/2007

Figure 3

**Groundwater Elevation
Map, December 11, 2006**

Legend

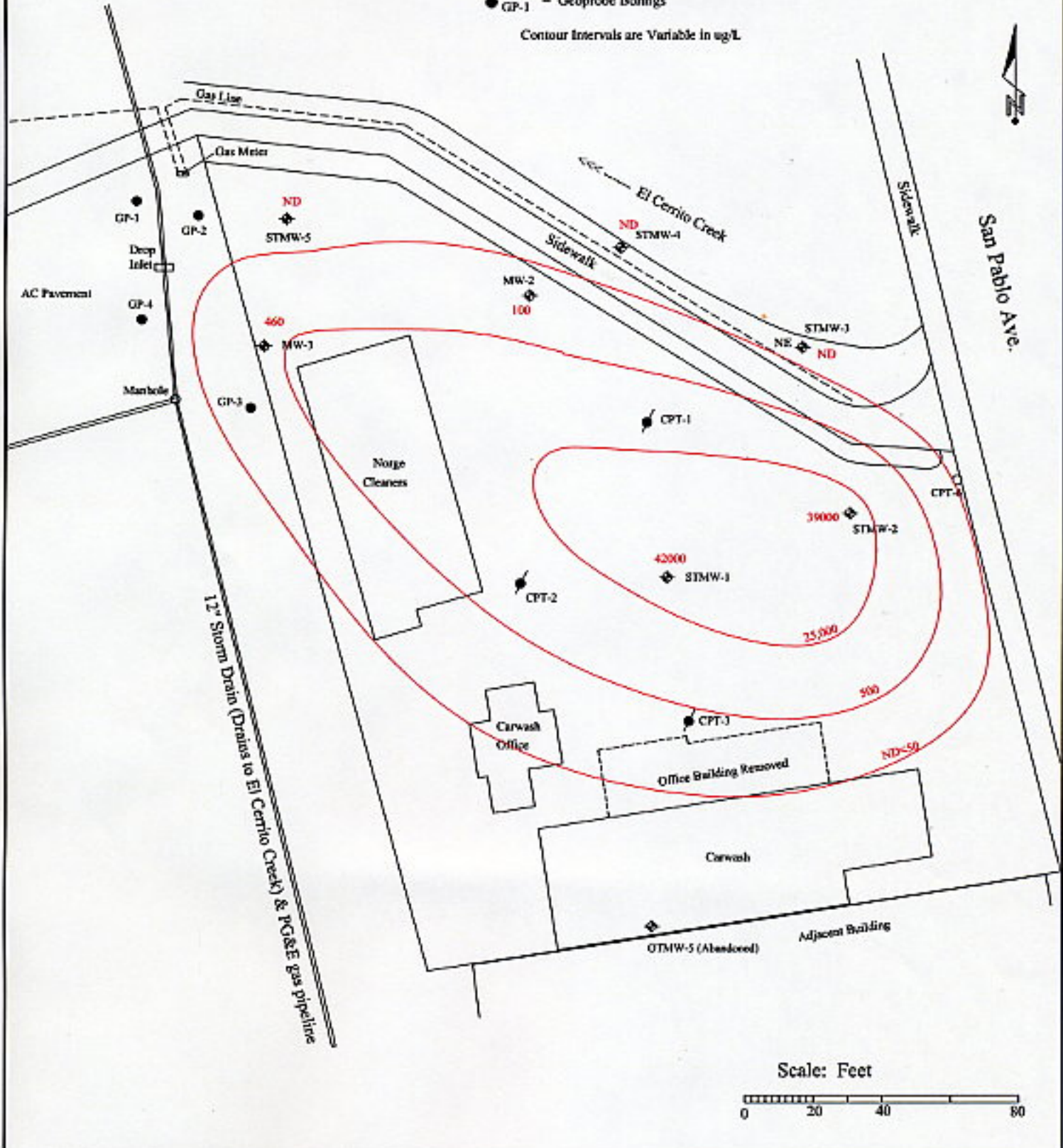
- ◆ = Monitor Well
 - CPT-1 = Cone Penetrometer Boring
 - GP-1 = Geoprobe Borings
- Contour Interval = 0.25 feet



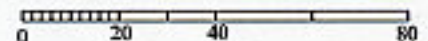
Legend

- ◆ - Monitor Well
- - Cone Penetrometer Boring
- - Geoprobe Borings

Contour Intervals are Variable in ug/L

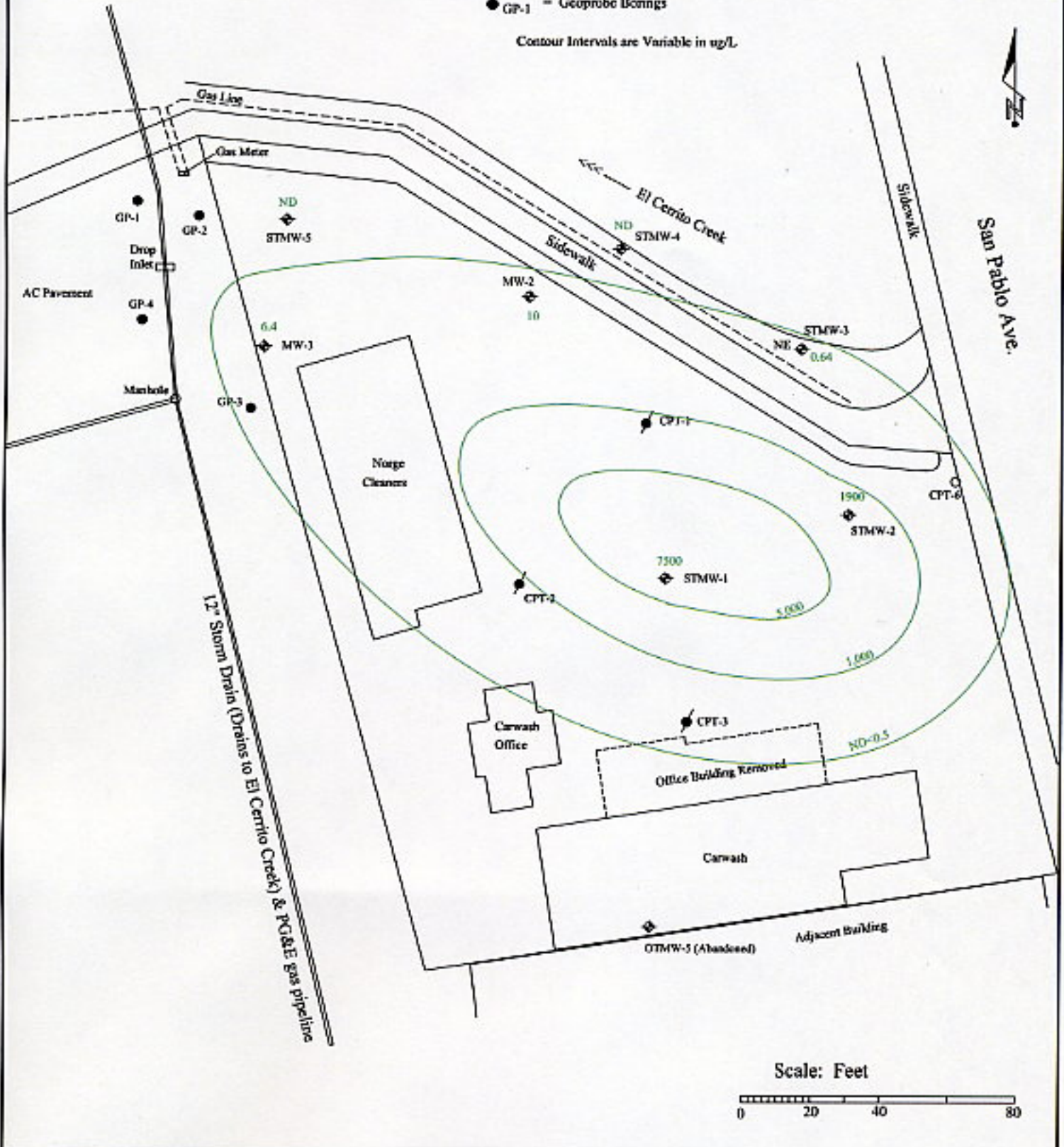


Scale: Feet



Legend

- ◆ = Monitor Well
 - CPT-1 = Cone Penetrometer Boring
 - GP-1 = Geoprobe Borings
- Contour Intervals are Variable in ug/L



A P P E N D I X "C"

BORING LOGS

ENVIRO SOIL TECH CONSULTANTS

BORING LOCATION 400 San Pablo Avenue, Albany, CA		GROUND SURFACE ELEVATION:	
DRILLING AGENCY Vironex, Inc.		TOP OF WELL CASING ELEVATION:	
DRILLER John McAssey		DATE STARTED: 10/23/06	
DRILLING EQUIPMENT Geoprobe		DATE FINISHED: 10/23/06	
DRILLING METHOD Direct push		COMPLETION DEPTH (ft) 20 feet	
DRILL BIT		HAMMER SAMPLER 2" polyethelene	
SIZE AND TYPE OF CASING		NUMBER OF SAMPLES BULK: DRIVE:	
TYPE OF PERFORATION		WATER FIRST DEPTH	
FROM TO		COMPL.: 24 hrs.	
SIZE AND TYPE OF PACK		LOGGED BY Clyde Hebbbron	
FROM TO		CHECKED BY Lawrence Koo	

LOG OF BORING 421-GP-1

DEPTH (feet)	MATERIAL DESCRIPTION	USCS	SOIL GRAPHIC	WELL GRAPHIC	PID, ppm	WATER LEVEL	DEPTH (feet)	SAMPLES			INDEX PROPERTIES		
								NUMBER	TYPE	FOCKET PEN, 1/4'	BLOWS/foot	MOISTURE CONTENT (%)	DRY DENSITY (pcf)
0	Fill material.	FILL					0						
5	Dark brown to black poorly graded sand. No hydrocarbon odor.	SP			0		5						
10	Dark gray clay (slightly plasticity), trace of sand and cobbles. Hydrocarbon odor not like gas or diesel.	CL			25		1-6						
10	Yellow-brown clayey sand, medium plasticity.	SC			25		1-10						
20	Boring terminated.				0		20						
25							25						
30							30						
35							35						

ENVIRO SOIL TECH CONSULTANTS

BORING LOCATION 400 San Pablo Avenue, Albany, CA		GROUND SURFACE ELEVATION: TOP OF WELL CASING ELEVATION:	
DRILLING AGENCY Vironex, Inc.	DRILLER John McAssey	DATE STARTED: 10/23/06 DATE FINISHED: 10/23/06	
DRILLING EQUIPMENT Geoprobe		COMPLETION DEPTH (ft) 20 feet	
DRILLING METHOD Direct push	DRILL BIT	HAMMER	SAMPLER 2" polyethelene
SIZE AND TYPE OF CASING		NUMBER OF SAMPLES	BULK: DRIVE:
TYPE OF PERFORATION		FROM TO	WATER FIRST: DEPTH COMPL.: 24 hrs.
SIZE AND TYPE OF PACK		FROM TO	LOGGED BY Clyde Hebbbron CHECKED BY Lawrence Koo

TYPE OF SEAL	TYPE	FR	TO	TYPE	FR	TO	LOG OF BORING 421-GP-2
	No. 1:			No. 3:			
	No. 2:			No. 4:			

DEPTH (feet)	MATERIAL DESCRIPTION	USCS	SOIL GRAPHIC	WELL GRAPHIC	PID, ppm	WATER LEVEL	DEPTH (feet)	SAMPLES				INDEX PROPERTIES		
								NUMBER TYPE	POCKET PEN. 1/1'	BLOWS/ foot	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	UNCONFINED COMPRESSIVE STRENGTH (psf)	
0	Fill material.	FILL	[Cross-hatched pattern]				0							
5	Yellow-brown fine to medium grained sand (fairly sorted). Transitions to gravel-sand mixture.	SP	[Dotted pattern]				5							
10	Black clay (slight plasticity).	CL	[Diagonal lines pattern]		0		2-7							
15	Varigated gray and yellow-brown clay, trace of cobbles and sand.	CL	[Diagonal lines pattern]		0		2-3							
20	Yellow-brown very fine to fine grained silty sand.	SM	[Dotted pattern]		0									
20	Boring terminated.						20							
25							25							
30							30							
35							35							

ENVIRO SOIL TECH CONSULTANTS

BORING LOCATION 400 San Pablo Avenue, Albany, CA		GROUND SURFACE ELEVATION: TOP OF WELL CASING ELEVATION:	
DRILLING AGENCY Vironex, Inc.	DRILLER John McAssey	DATE STARTED: 10/23/06	DATE FINISHED: 10/23/06
DRILLING EQUIPMENT Geoprobe	COMPLETION DEPTH (ft) 20 feet		
DRILLING METHOD Direct push	DRILL BIT	HAMMER	SAMPLER 2" polyethelene
SIZE AND TYPE OF CASING	NUMBER OF SAMPLES BULK: DRIVE:		
TYPE OF PERFORATION	FROM TO	WATER FIRST DEPTH	COMPL: 24 hrs.
SIZE AND TYPE OF PACK	FROM TO	LOGGED BY Clyde Hebbbron	CHECKED BY Lawrence Koo

TYPE OF SEAL	TYPE	FR	TO	TYPE	FR	TO	LOG OF BORING 421-GP-3
	No. 1			No. 3			
	No. 2			No. 4			

DEPTH (feet)	MATERIAL DESCRIPTION	USCS	SOIL GRAPHIC	WELL GRAPHIC	PID, ppm	WATER LEVEL	DEPTH (feet)	SAMPLES			INDEX PROPERTIES		
								NUMBER TYPE	POCKET PEN. 1st	BLOWS/ foot	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	UNCONFINED COMPRESSIVE STRENGTH (pcf)
0	Fill material.	FILL	[Cross-hatched pattern]				0						
	Brown fine-medium grained poorly-sorted sand.	SP	[Dotted pattern]										
5	Varigated dark gray and rust non-plastic clay, trace of sand.	CL	[Diagonal lines pattern]				5						
	Black organic slightly plastic clay.	CL	[Diagonal lines pattern]										
10	Black organic slightly plastic clay with trace of cobbles and sand.	CL	[Diagonal lines pattern]				10						
	Varigated gray and yellow-brown clay.	CL	[Diagonal lines pattern]										
15							15						
	6-inch sand stringer clayey.	SM	[Dotted pattern]										
	Yellow-gray clay, trace of sand.	CL	[Diagonal lines pattern]										
20	Boring terminated.						20						
25							25						
30							30						
35							35						

ENVIRO SOIL TECH CONSULTANTS

BORING LOCATION	400 San Pablo Avenue, Albany, CA		GROUND SURFACE ELEVATION: TOP OF WELL CASING ELEVATION:	
DRILLING AGENCY	Vironex, Inc.	DRILLER	John McAssey	
DRILLING EQUIPMENT	Geoprobe		COMPLETION DEPTH (ft)	20 feet
DRILLING METHOD	Direct push	DRILL BIT	HAMMER	SAMPLER 2" polyethelene
SIZE AND TYPE OF CASING			NUMBER OF SAMPLES	BULK: DRIVE:
TYPE OF PERFORATION	FROM	TO	WATER FIRST: DEPTH	COMPL: 24 hrs.
SIZE AND TYPE OF PACK	FROM	TO	LOGGED BY	Clyde Hebbron
			CHECKED BY	Lawrence Koo

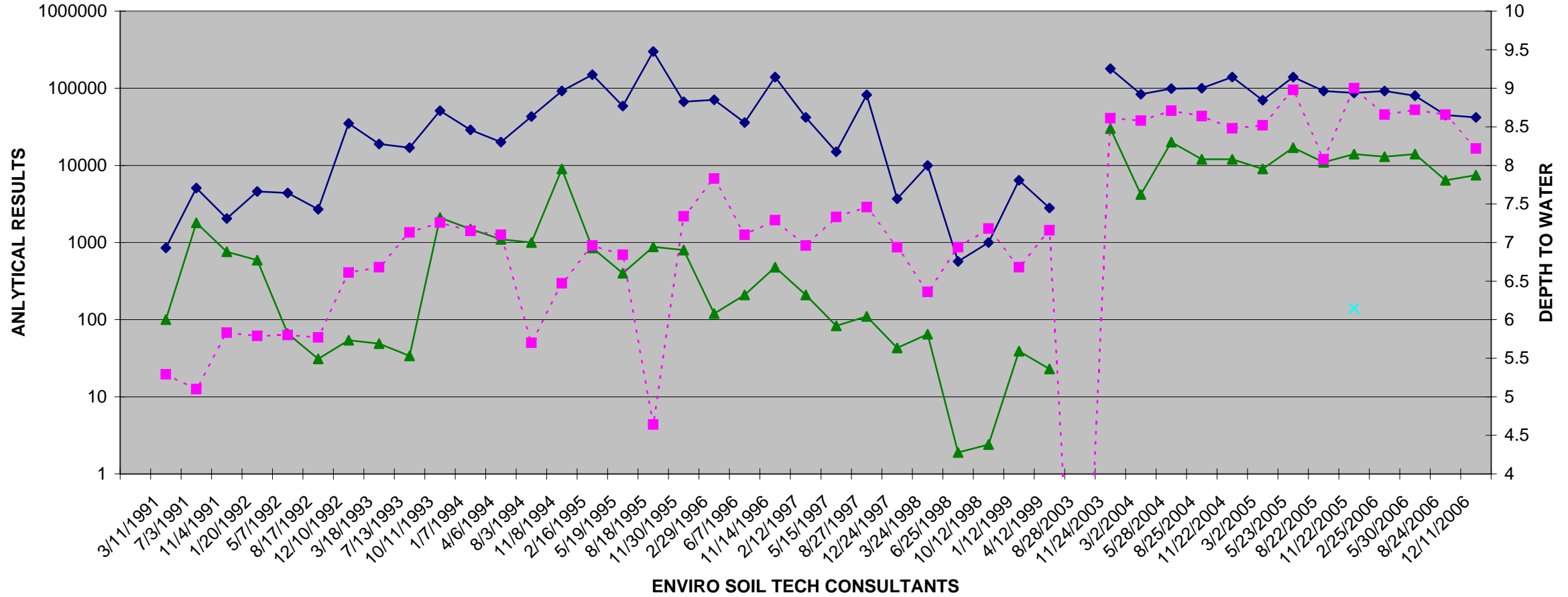
TYPE OF SEAL	TYPE	FR	TO	TYPE	FR	TO	LOG OF BORING 421-GP-4
	No. 1:			No. 3:			
	No. 2:			No. 4:			

DEPTH (feet)	MATERIAL DESCRIPTION	USCS	SOIL GRAPHIC	WELL GRAPHIC	PID, ppm	WATER LEVEL	DEPTH (feet)	SAMPLES			INDEX PROPERTIES		
								NUMBER TYPE	POCKET PEN, 1st	BLOWS/foot	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	UNCONFINED COMPRESSIVE STRENGTH (psf)
0	Fill material.	FILL					0						
	Brown poorly-sorted fine to medium grained sand with some cobbles.	SP			0								
5	Dark gray slightly plastic clay, some organic material, swamp odor.	CL			0		5						
	Brown moderate sorting fine-grained sand.	SP			0		10						
	Varigated gray and yellow-brown slightly plastic clay with trace of cobbles.	CL			0		11	4-					
	Yellow-brown clayey sand, no hydrocarbon odor.	SC			0		13	4-					
15							15						
20	Boring terminated.						20						
25							25						
30							30						
35							35						

A P P E N D I X "D"

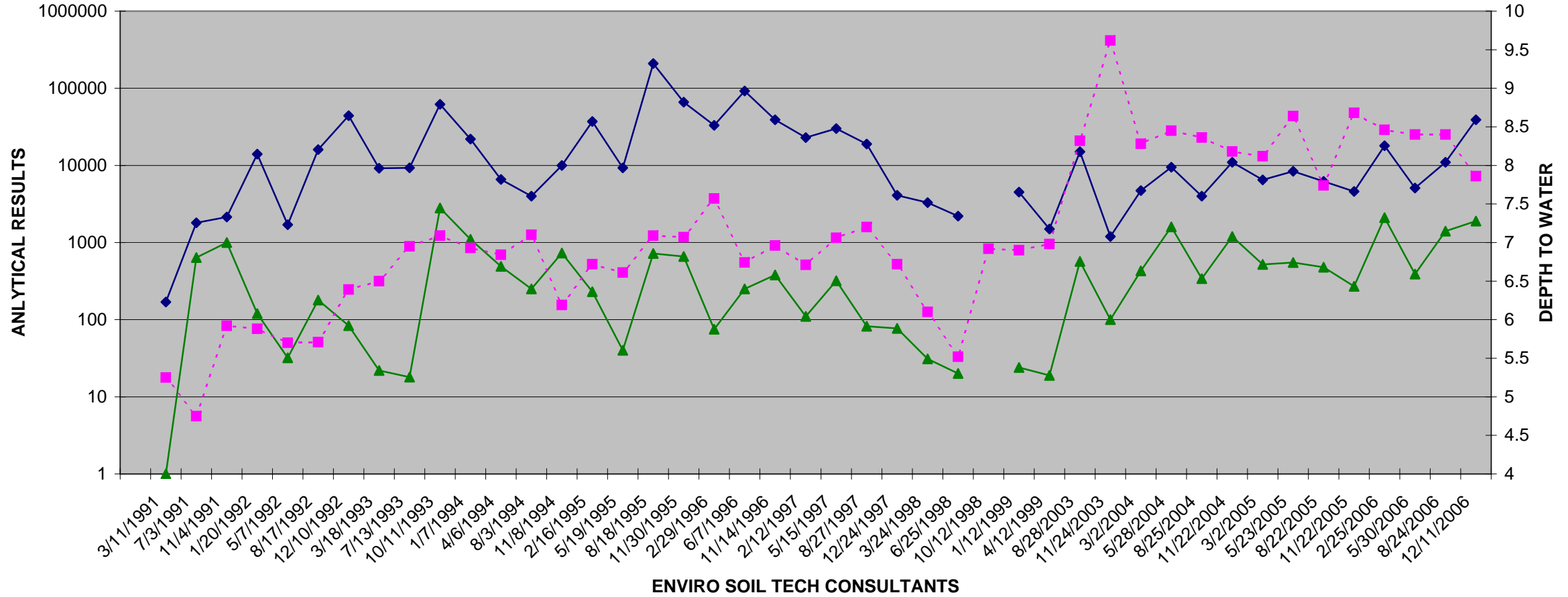
HYDROGRAPHS

File No.: 8-90-421-SI
TPHg, BENZENE & MTBE FOR STMW-1 (µg/L)
AND DEPTH TO WATER MEASUREMENT (Feet)



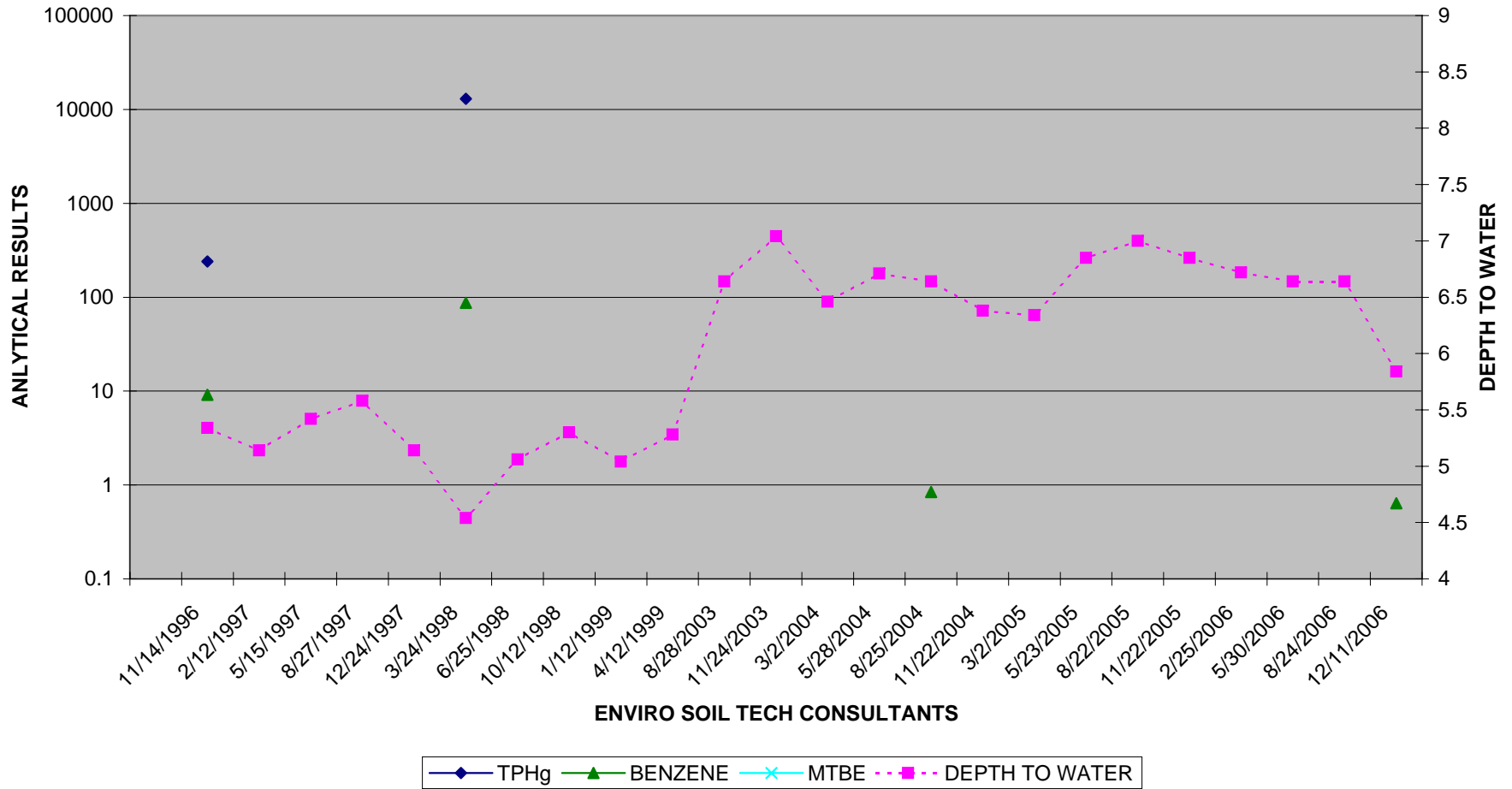
◆ TPHg
 ▲ BENZENE
 × MTBE
 ■ DEPTH TO WATER

File No.: 8-90-421-SI
TPHg, BENZENE & MTBE FOR STMW-2 (µg/L)
AND DEPTH TO WATER MEASUREMENT (Feet)



—◆— TPHg —▲— BENZENE —×— MTBE - - -■- - - DEPTH TO WATER

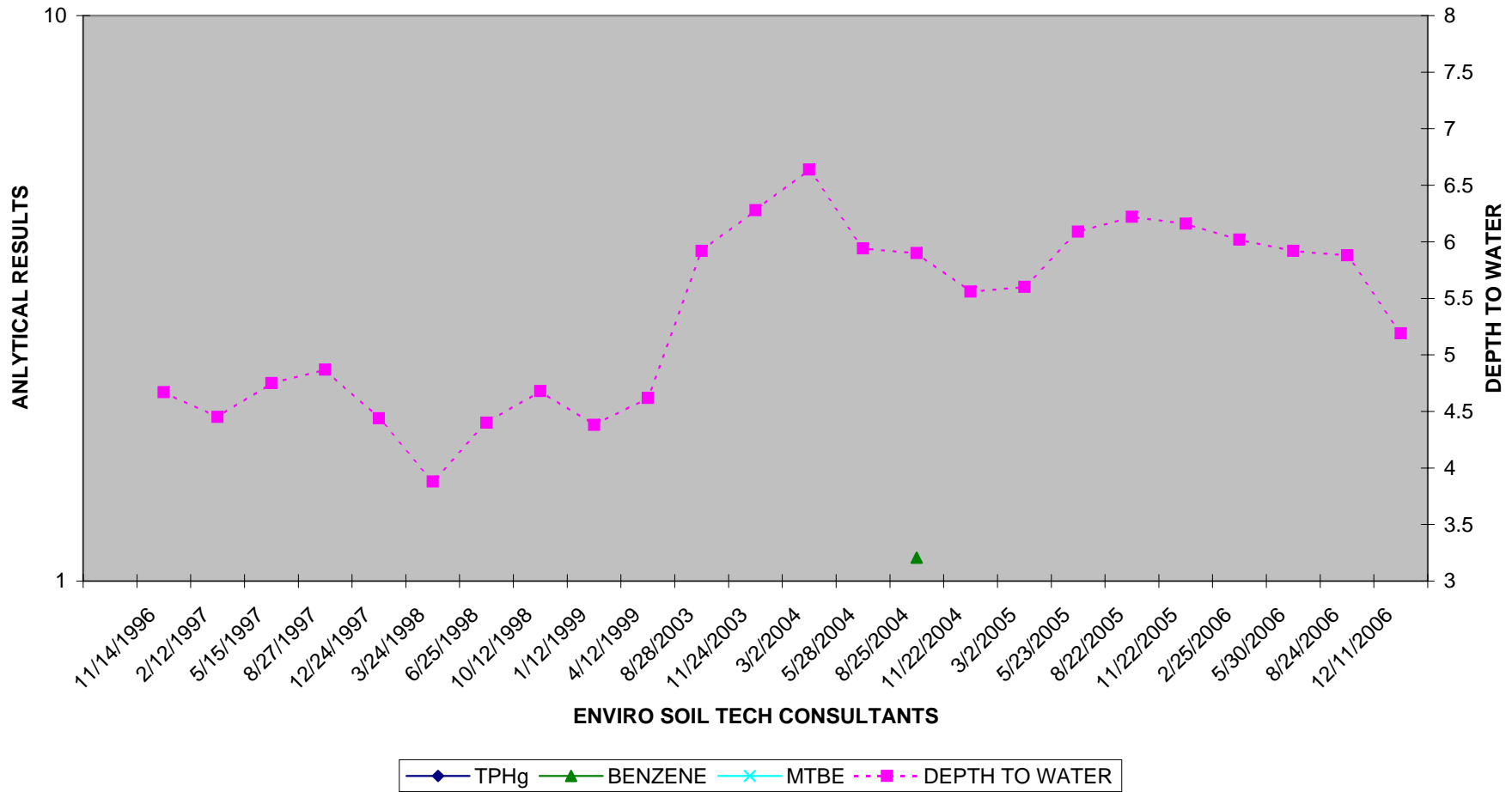
File No.: 8-90-421-SI
TPHg, BENZENE & MTBE FOR STMW-3 (µg/L)
AND DEPTH TO WATER MEASUREMENT (Feet)



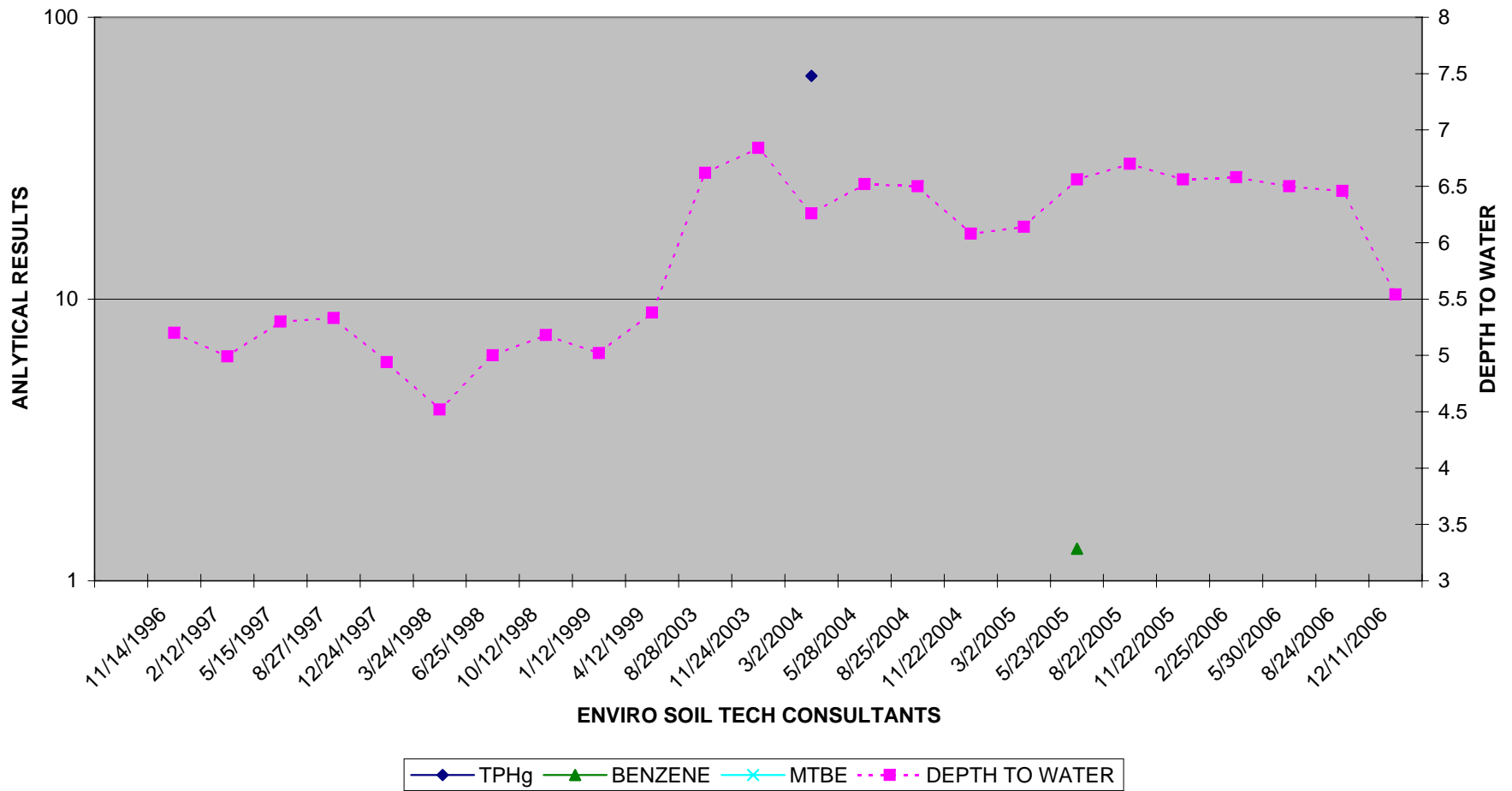
ENVIRO SOIL TECH CONSULTANTS



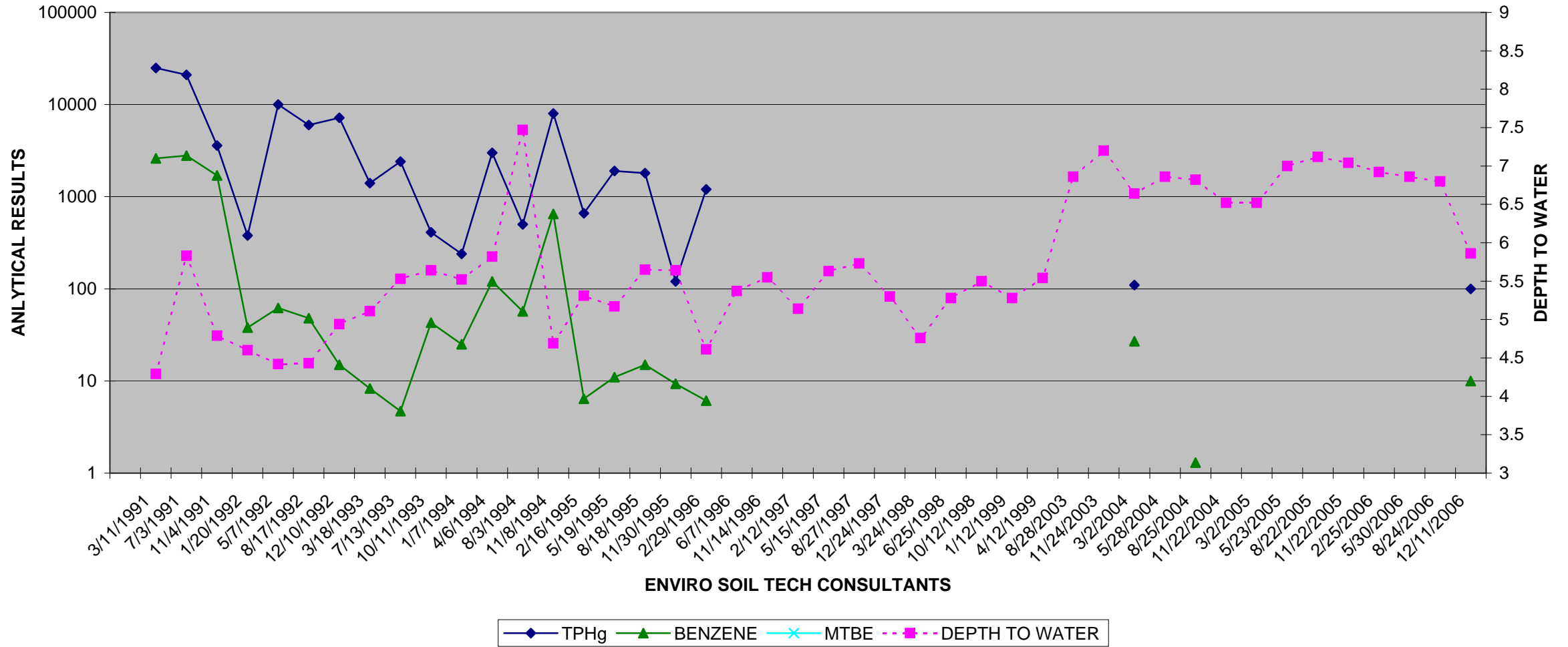
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TPHg, BENZENE & MTBE FOR STMW-4 (µg/L)
AND DEPTH TO WATER MEASUREMENT (Feet)



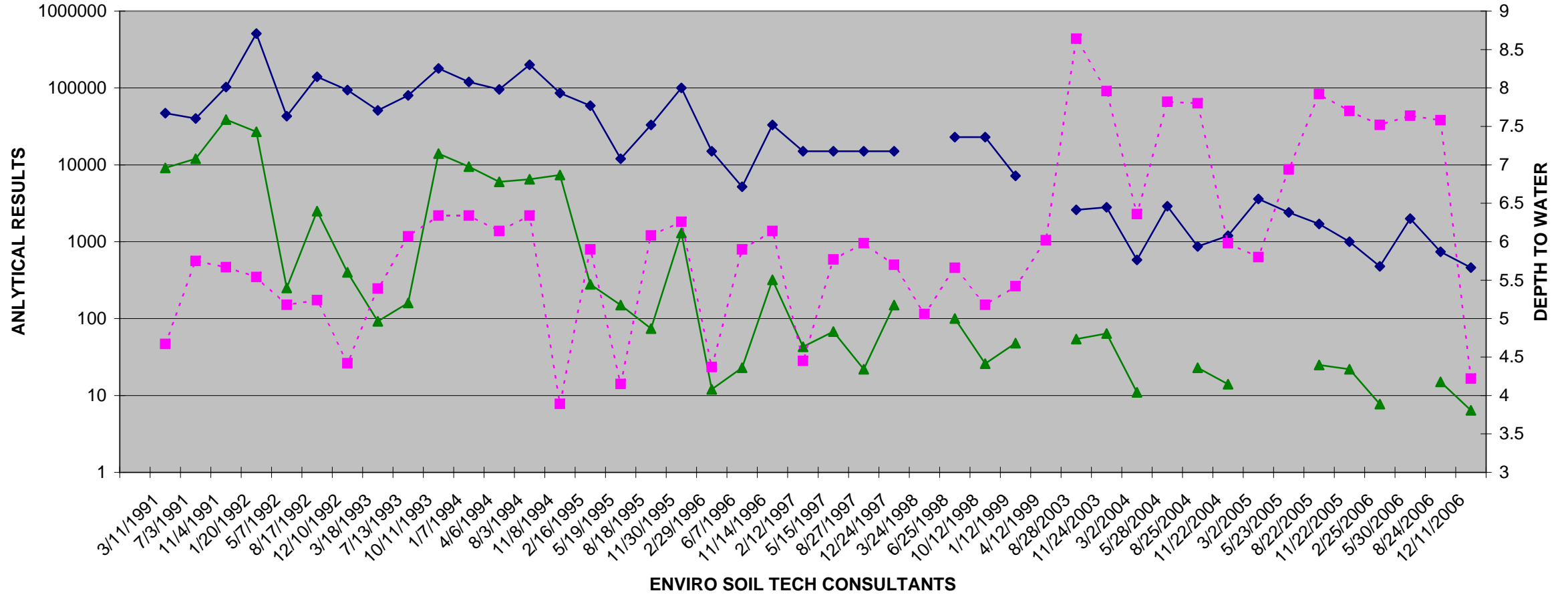
File No.: 8-90-421-SI
 TPHg, BENZENE & MTBE FOR STMW-5 (µg/L)
 AND DEPTH TO WATER MEASUREMENT (Feet)



File No.: 8-90-421-SI
TPHg, BENZENE & MTBE FOR MW-2 (µg/L)
AND DEPTH TO WATER MEASUREMENT (Feet)



File No.: 8-90-421-SI
TPHg, BENZENE & MTBE FOR MW-3 (µg/L)
AND DEPTH TO WATER MEASUREMENT (Feet)



◆ TPHg
 ▲ BENZENE
 × MTBE
 ■ DEPTH TO WATER

A P P E N D I X "E"

STANDARD OPERATION PROCEDURES

ENVIRO SOIL TECH CONSULTANTS

DRILLING AND SOIL SAMPLING PROCEDURE

A direct push technology (Geoprobe) tool was used in drilling the boreholes to the desired depths.

Prior to drilling, all drilling equipment was thoroughly steam-cleaned to minimize the possibility of cross-contamination and/or vertical migration of possible contaminants.

In addition, sampling equipment was washed between samples with Tri-sodium Phosphate (TSP) solution or an equivalent EPA-approved detergent followed by a rinse in distilled water.

During the drilling operation, undisturbed soil samples were taken from the required depth by forcing a 2-inch sampler lined with polyethylene or brass tubes driven into undisturbed sediments at the bottom of the borehole by means of hydraulic push technologies.

The selected sampling tubes were immediately trimmed, the ends covered tightly with aluminum foil and plastic caps, sealed with tape labeled, placed in a plastic bag and stored in a cold ice chest in order to minimize the escape of any volatile present in the samples. Soil samples were sent to a state-certified hazardous waste laboratory for analysis accompanied by a chain-of-custody record.

Soil samples collected at each sampling interval were inspected for any possible contamination (odor or peculiar colors). Soil vapor concentrations were measured in the field by using a Photoionization Detector (PID), Photovac Tip Air Analyzer. The soil sample was sealed in a Zip-Loc plastic bag and placed in the sun to enhance volatilization of the hydrocarbons from the sample. The purpose of this field analysis is to qualitatively determine the presence or absence of hydrocarbons and to establish which soil samples were analyzed at the laboratory. The data was recorded on the drilling log at the depth corresponding to the sampling point.

Other soil samples may be collected to document the stratigraphy and estimate relative permeability of the subsurface materials.

Soil tailings that are obtained during drilling were stored at the site, pending the analytical test results to determine proper disposal.

GROUNDWATER SAMPLING

Prior to collection of groundwater samples, all of the sampling equipment (i.e. bailer, cables, bladder pump, discharge lines and etc...) was cleaned by pumping TSP water solution followed by distilled water.

Prior to purging, the well “Water Sampling Field Survey Forms” was filled out (depth to water and total depth of water column will be measured and recorded). The well then was bailed or pumped to remove four to ten well volumes or until the discharged water temperature, conductivity and pH stabilized. “Stabilized” is defined as three consecutive readings within 15% of one another.

The groundwater sample was collected when the water level in the well recovered to 80% of its static level.

Forty milliliter (ml.) glass volatile organic analysis (VOA) vials with Teflon septa was used as sample containers. The groundwater sample was being decanted into each VOA vial in such a manner that there was a meniscus at the top. The cap quickly was placed over the top of the vial and securely tightened. The VOA vial was then be inverted and tapped to see if air bubbles is present. If none is present, then the sample was labeled and refrigerated for delivery under chain-of-custody to the laboratory. The label information has included a sample identification number, job identification number, date, time, type of analysis requested and the sampler’s name.

A P P E N D I X "F"

CPT DRILING REPORT



GREGG IN SITU, INC.

GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

November 2, 2006

Enviro Soil Tech Consultants
Attn: Dianne Nguyen
131 Tully Rd.
San Jose, California 94111

Subject: CPT Site Investigation
Plaza Car Wash
Albany, California
GREGG Project Number: 06-373MA

Dear Ms. Nguyen:

The following report presents the results of GREGG Drilling & Testing's Cone Penetration Test investigation for the above referenced site. The following testing services were performed:

1	Cone Penetration Tests	(CPTU)	<input checked="" type="checkbox"/>
2	Pore Pressure Dissipation Tests	(PPD)	<input checked="" type="checkbox"/>
3	Seismic Cone Penetration Tests	(SCPTU)	<input type="checkbox"/>
4	Resistivity Cone Penetration Tests	(RCPTU)	<input type="checkbox"/>
5	UVIF Cone Penetration Tests	(UVIFCPTU)	<input type="checkbox"/>
6	Groundwater Sampling	(GWS)	<input checked="" type="checkbox"/>
7	Soil Sampling	(SS)	<input type="checkbox"/>
8	Vapor Sampling	(VS)	<input type="checkbox"/>
9	Vane Shear Testing	(VST)	<input type="checkbox"/>
10	SPT Energy Calibration	(SPTC)	<input type="checkbox"/>

A list of reference papers providing additional background on the specific tests conducted is provided in the bibliography following the text of the report. If you would like a copy of any of these publications or should you have any questions or comments regarding the contents of this report, please do not hesitate to contact our office at (925) 313-5800.

Sincerely,
GREGG Drilling & Testing, Inc.

Mary Walden
Operations Manager



Cone Penetration Test Sounding Summary

-Table 1-

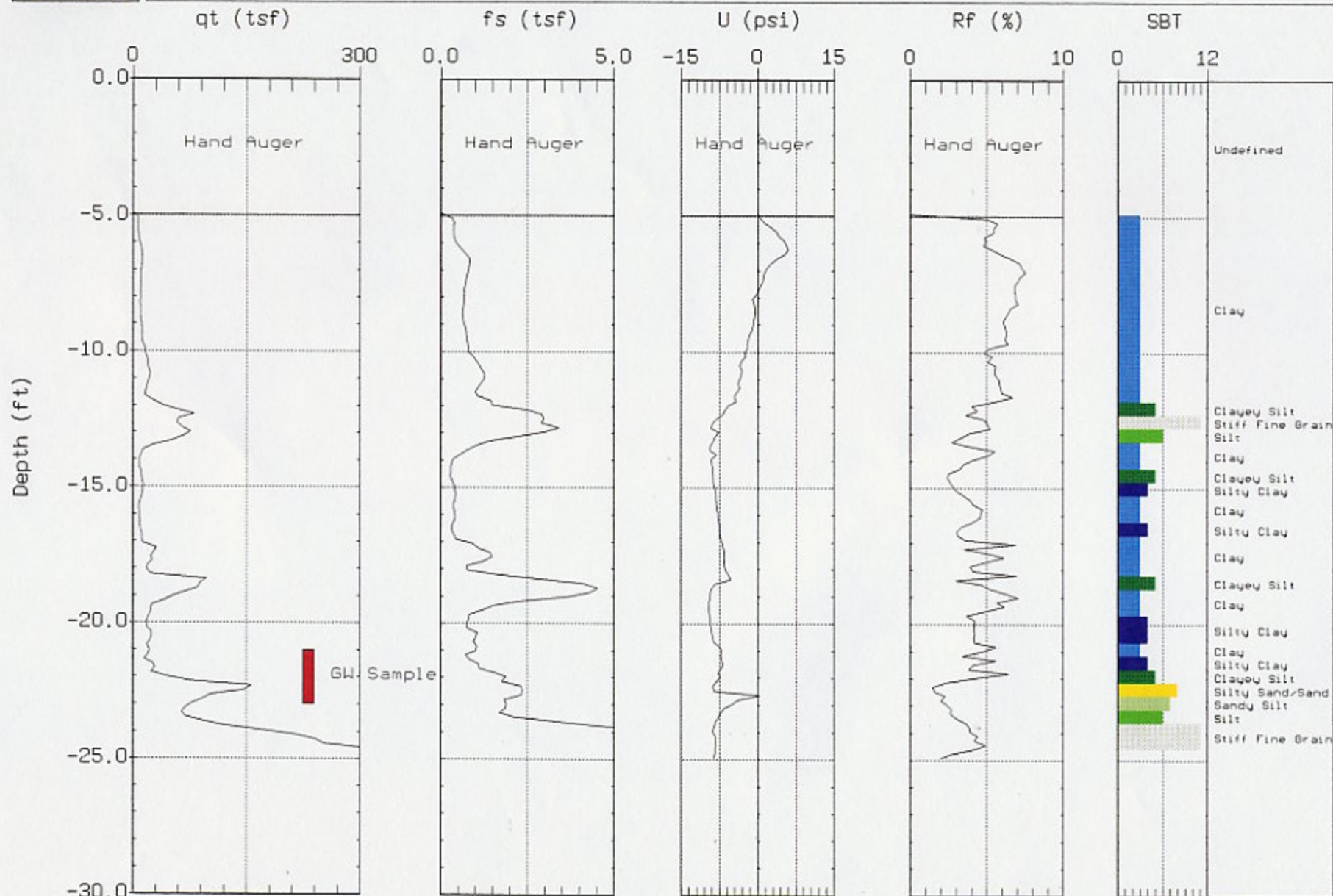
CPT Sounding Identification	Date	Termination Depth (Feet)	Depth of Groundwater Samples (Feet)	Depth of Soil Samples (Feet)	Depth of Pore Pressure Dissipation Tests (Feet)
CPT-01	11/01/06	25	23	-	22.5
CPT-02	11/01/06	23	18, 22	-	-
CPT-03	11/01/06	23	21	-	-



ENVIRO SOIL TECH

Site: PLAZA CAR WASH
Location: CPT-01

Geologist: U.CHERVEN
Date: 11:01:106 13:44



Max. Depth: 24.93 (ft)

Depth Inc.: 0.164 (ft)

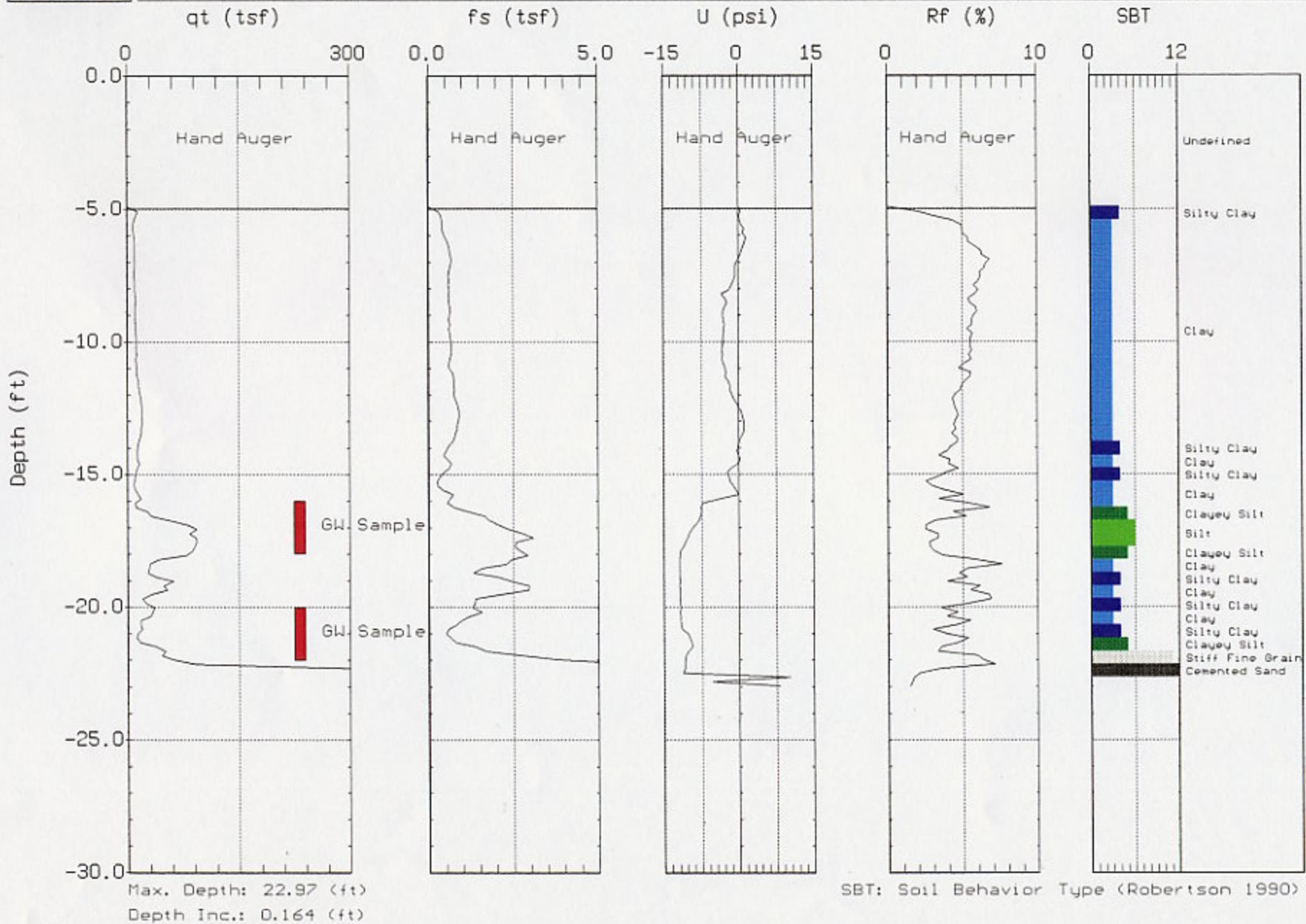
SBT: Soil Behavior Type (Robertson 1990)



ENVIRO SOIL TECH

Site: PLAZA CAR WASH
Location: CPT-02

Geologist: U. CHERVEN
Date: 11:01:106 10:03

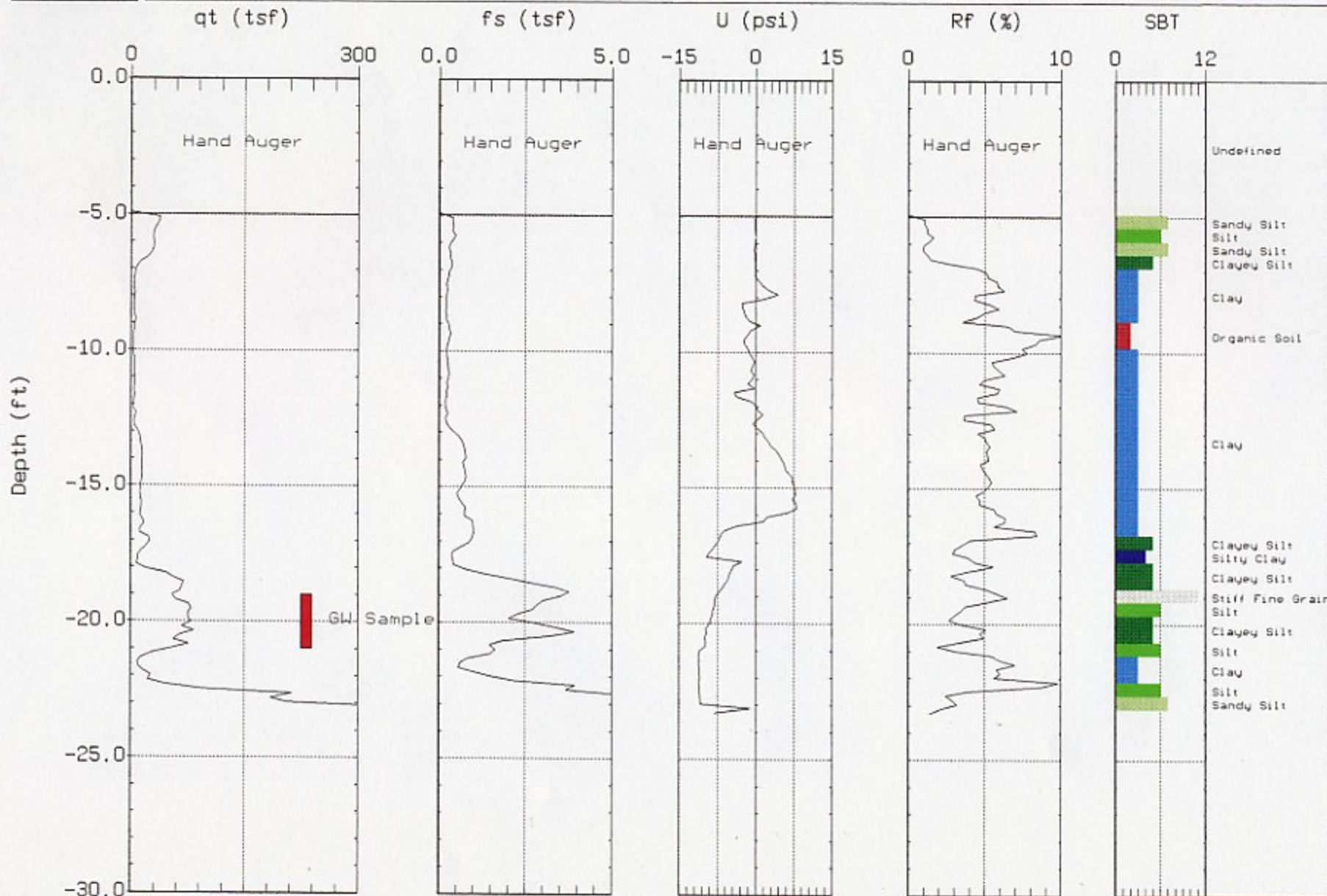




ENVIRO SOIL TECH

Site: PLAZA CAR WASH
Location: CPT-03

Geologist: U.CHERVEN
Date: 11:01:106 11:54



Max. Depth: 23.29 (ft)
Depth Inc.: 0.164 (ft)

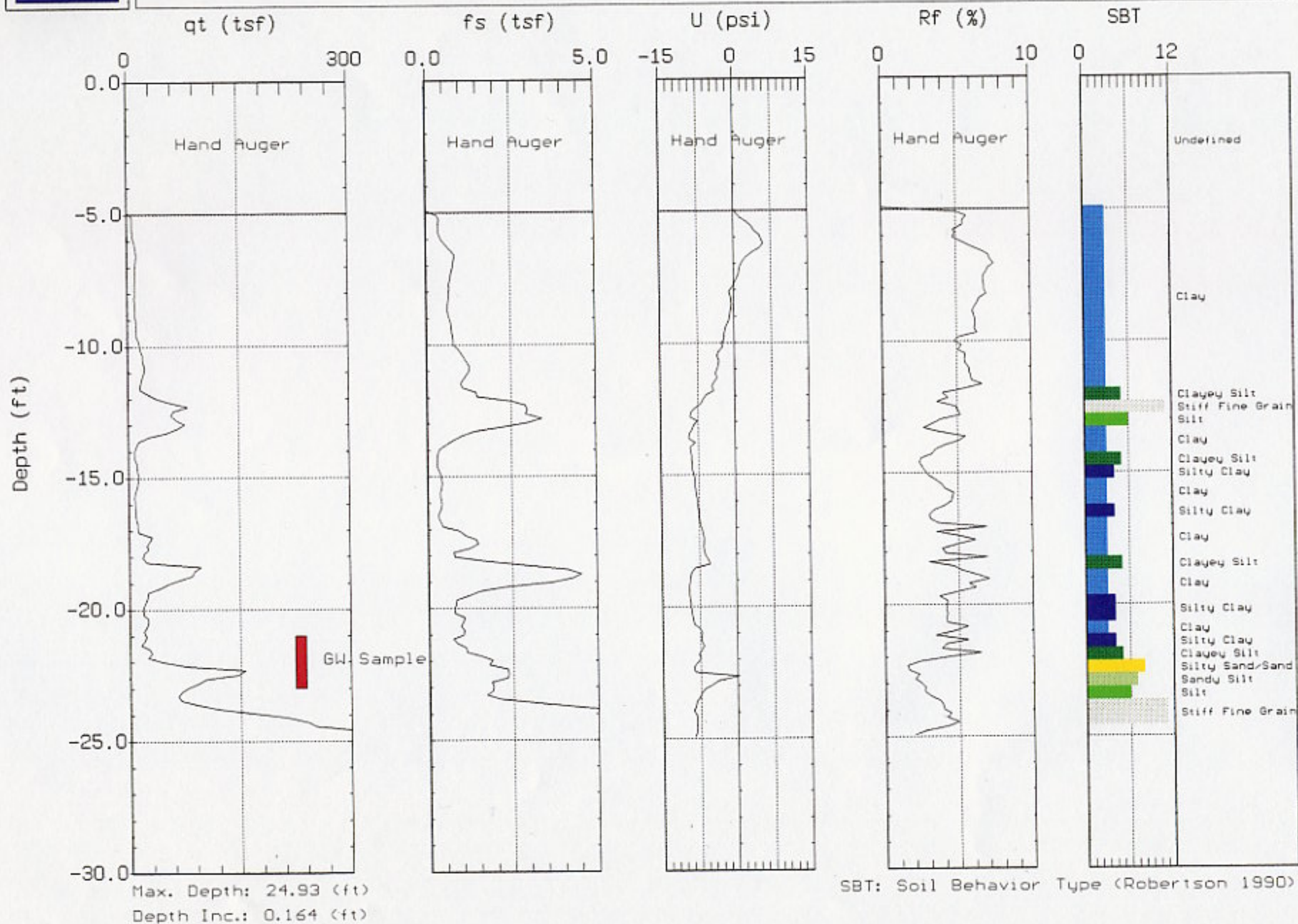
SBT: Soil Behavior Type (Robertson 1990)



ENVIRO SOIL TECH

Site: PLAZA CAR WASH
Location: CPT-01

Geologist: U.CHERUEN
Date: 11:01:106 13:44

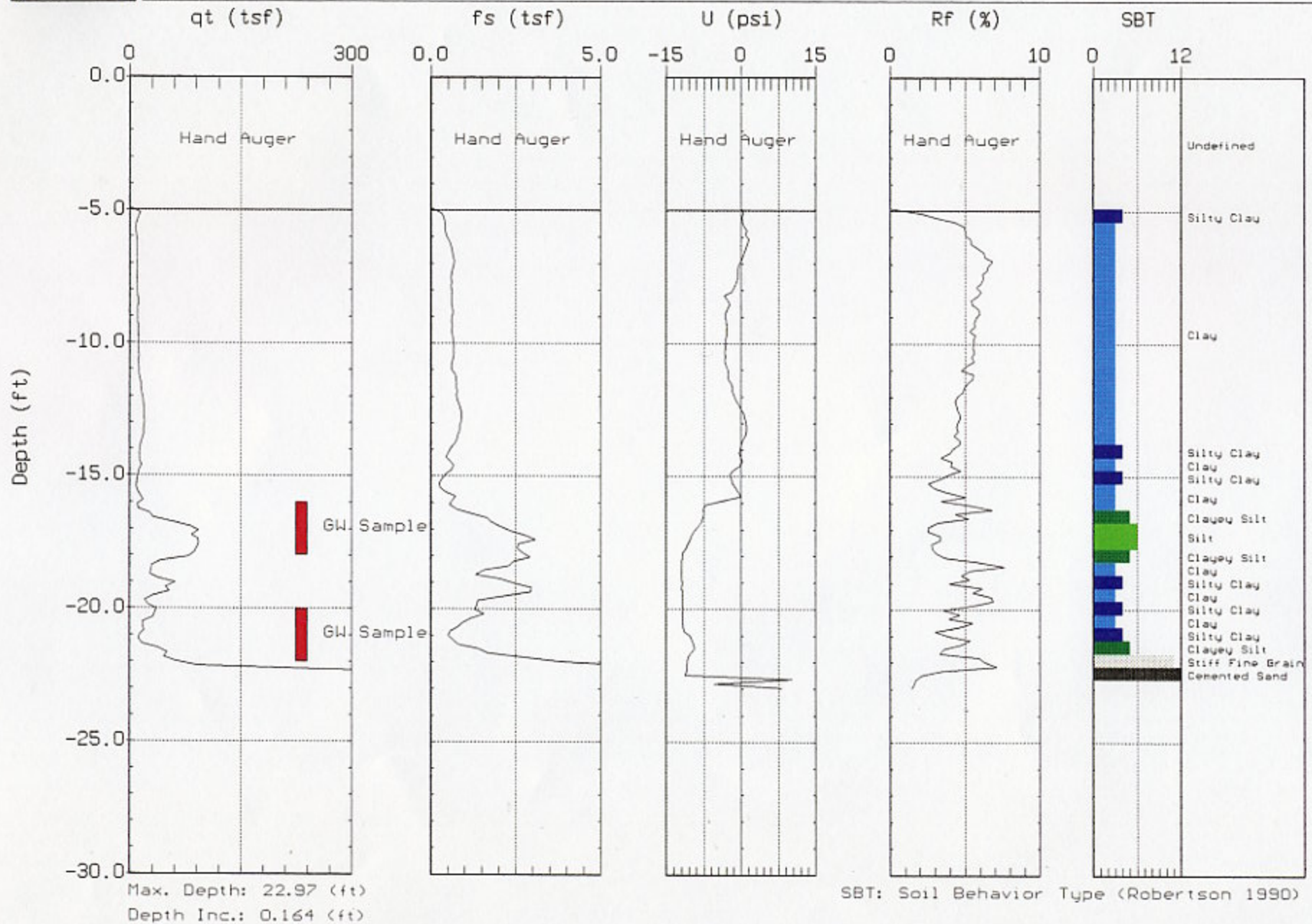




ENVIRO SOIL TECH

Site: PLAZA CAR WASH
Location: CPT-02

Geologist: U.CHERVEN
Date: 11:01:106 10:03

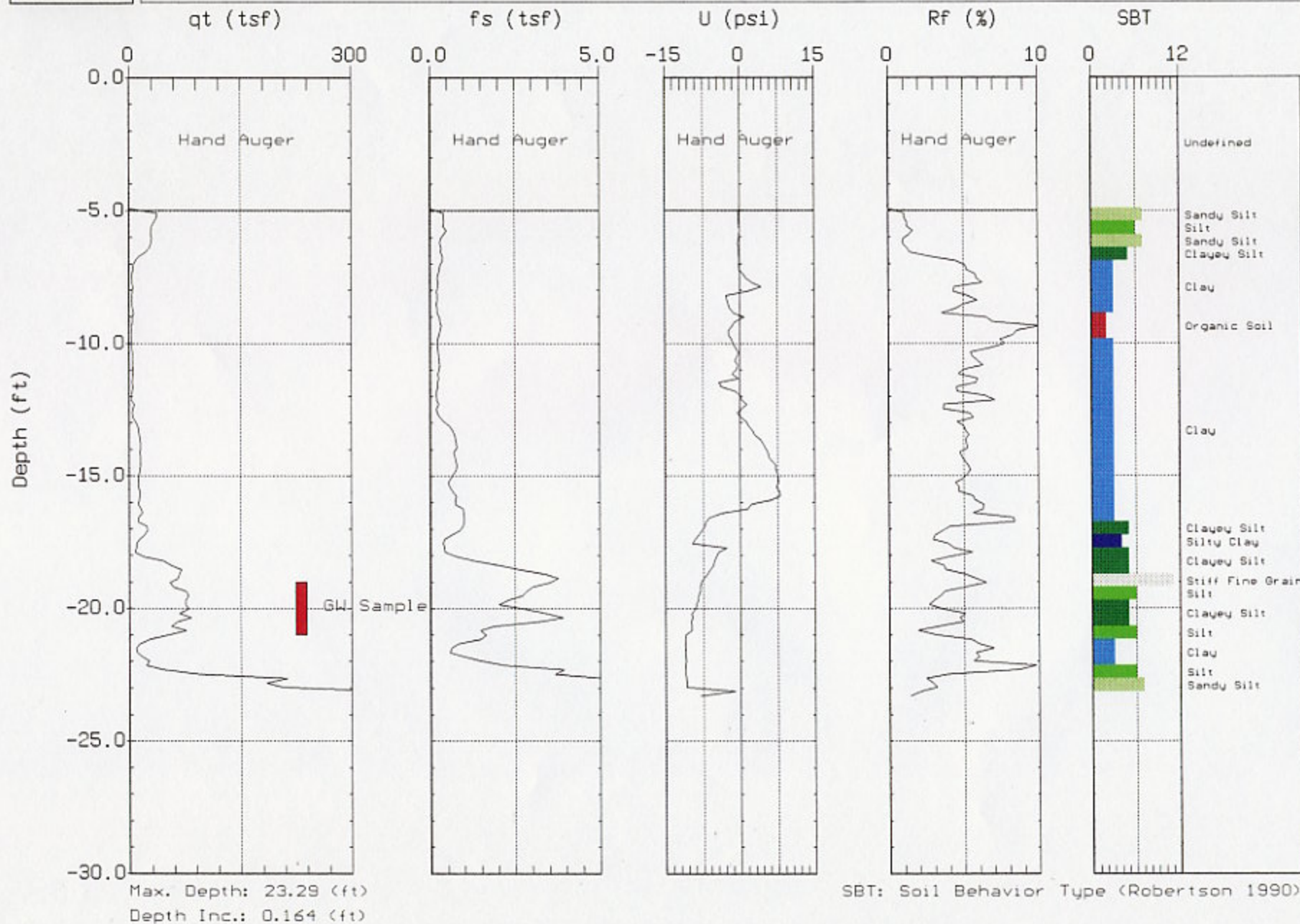




ENVIRO SOIL TECH

Site: PLAZA CAR WASH
Location: CPT-03

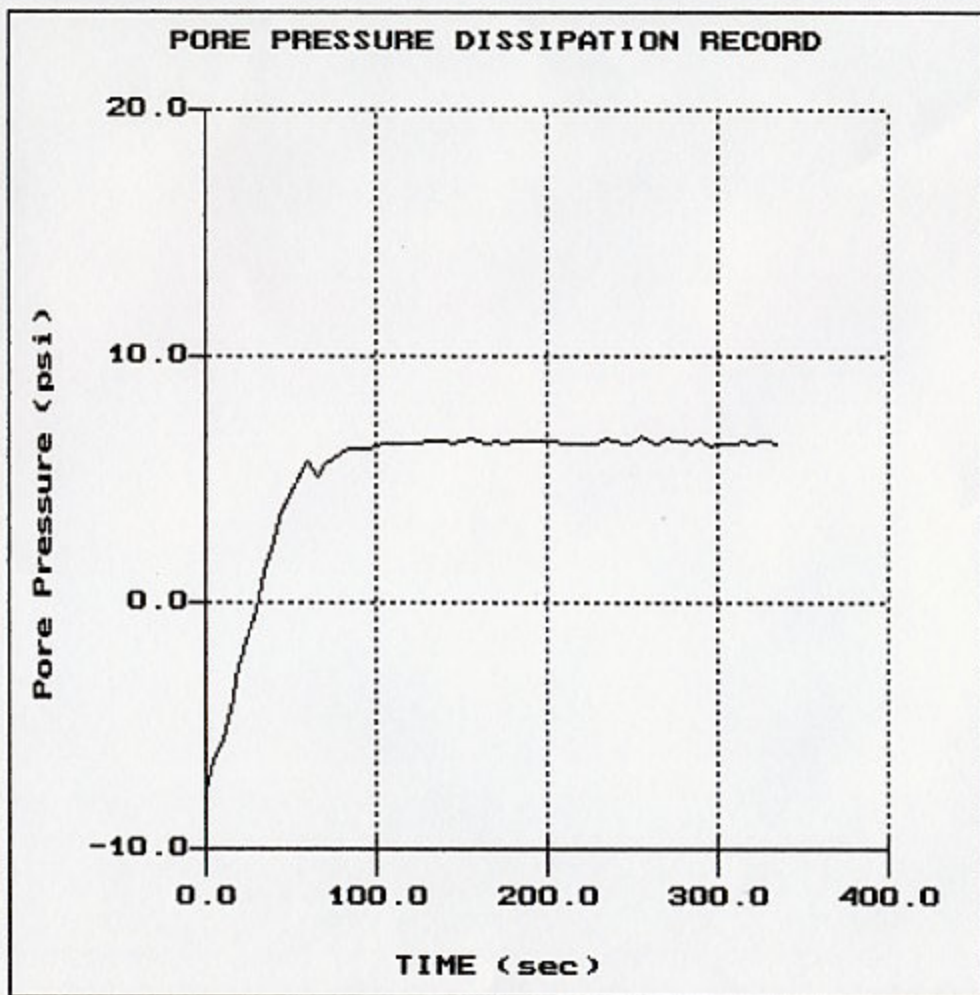
Geologist: U.CHERVEN
Date: 11:01:106 11:54



ENVIRO SOIL TECH

Site: PLAZA CAR WASH
Location: CPT-01

Oversite: U.CHERVEN
Date: 11:01:106 13:44



File: 373U01.PPC
Depth (m): 6.85
(ft): 22.47
Duration: 335.0s
U-min: -7.70 0.0s
U-max: 6.80 255.0s



Cone Penetration Test Data & Interpretation

Soil behavior type and stratigraphic interpretation is based on relationships between cone bearing (q_c), sleeve friction (f_s), and pore water pressure (u_2). The friction ratio (R_f) is a calculated parameter defined by $100f_s/q_c$ and is used to infer soil behavior type. Generally:

Cohesive soils (clays)

- High friction ratio (R_f) due to small cone bearing (q_c)
- Generate large excess pore water pressures (u_2)

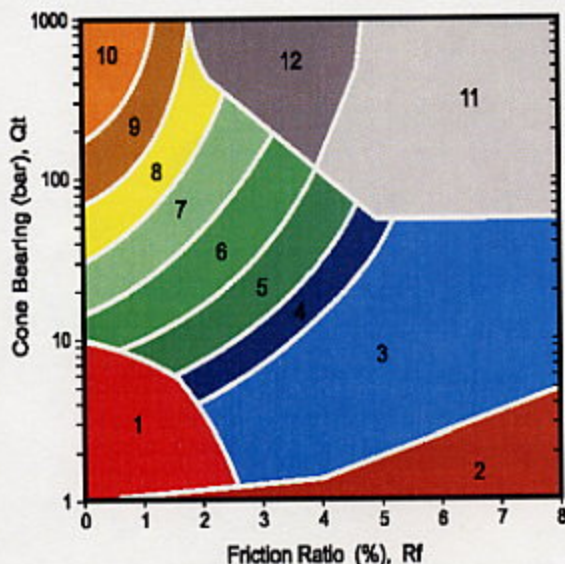
Cohesionless soils (sands)

- Low friction ratio (R_f) due to large cone bearing (q_c)
- Generate very little excess pore water pressures (u_2)

A complete set of baseline readings are taken prior to and at the completion of each sounding to determine temperature shifts and any zero load offsets. Corrections for temperature shifts and zero load offsets can be extremely important, especially when the recorded loads are relatively small. In sandy soils, however, these corrections are generally negligible.

The cone penetration test data collected from your site is presented in graphical form in Appendix CPT. The data includes CPT logs of measured soil parameters, computer calculations of interpreted soil behavior types (SBT), and additional geotechnical parameters. A summary of locations and depths is available in Table 1. Note that all penetration depths referenced in the data are with respect to the existing ground surface.

Soil interpretation for this project was conducted using recent correlations developed by Robertson, 1990, *Figure SBT*. Note that it is not always possible to clearly identify a soil type based solely on q_c , f_s , and u_2 . In these situations, experience, judgment, and an assessment of the pore pressure dissipation data should be used to infer the soil behavior type.



ZONE	Qt/N	SBT
1	2	Sensitive, fine grained
2	1	Organic materials
3	1	Clay
4	1.5	Silty clay to clay
5	2	Clayey silt to silty clay
6	2.5	Sandy silt to clayey silt
7	3	Silty sand to sandy silt
8	4	Sand to silty sand
9	5	Sand
10	6	Gravelly sand to sand
11	1	Very stiff fine grained*
12	2	Sand to clayey sand*

*over consolidated or cemented

Figure SBT



Cone Penetration Testing Procedure (CPT)

Gregg In Situ, Inc. carries out all Cone Penetration Tests (CPT) using an integrated electronic cone system, *Figure CPT*. The soundings were conducted using a 20 ton capacity cone with a tip area of 15 cm² and a friction sleeve area of 225 cm². The cone is designed with an equal end area friction sleeve and a tip end area ratio of 0.85.

The cone takes measurements of cone bearing (q_c), sleeve friction (f_s) and penetration pore water pressure (u_2) at 5-cm intervals during penetration to provide a nearly continuous hydrogeologic log. CPT data reduction and interpretation is performed in real time facilitating on-site decision making. The above mentioned parameters are stored on disk for further analysis and reference. All CPT soundings are performed in accordance with revised (2002) ASTM standards (D 5778-95).

The cone also contains a porous filter element located directly behind the cone tip (u_2), *Figure CPT*. It consists of porous plastic and is 5.0mm thick. The filter element is used to obtain penetration pore pressure as the cone is advanced as well as Pore Pressure Dissipation Tests (PPDT's) during appropriate pauses in penetration. It should be noted that prior to penetration, the element is fully saturated with silicon oil under vacuum pressure to ensure accurate and fast dissipation.

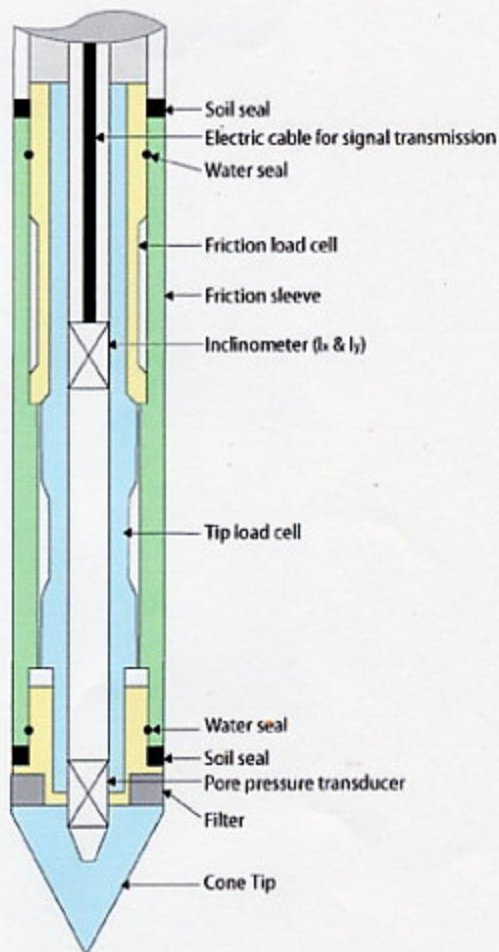


Figure CPT

When the soundings are complete, the test holes are grouted using a Gregg In Situ support rig. The grouting procedures generally consist of pushing a hollow CPT rod with a "knock out" plug to the termination depth of the test hole. Grout is then pumped under pressure as the tremie pipe is pulled from the hole. Disruption or further contamination to the site is therefore minimized.



Pore Pressure Dissipation Tests (PPDT)

Pore Pressure Dissipation Tests (PPDT's) conducted at various intervals measured hydrostatic water pressures and determined the approximate depth of the ground water table. A PPDT is conducted when the cone is halted at specific intervals determined by the field representative. The variation of the penetration pore pressure (u) with time is measured behind the tip of the cone and recorded by a computer system. Pore pressure dissipation data can be interpreted to provide estimates of:

- Equilibrium piezometric pressure
- Phreatic Surface
- In situ horizontal coefficient of consolidation (c_h)
- In situ horizontal coefficient of permeability (k_h)

In order to correctly interpret the equilibrium piezometric pressure and/or the phreatic surface, the pore pressure must be monitored until such time as there is no variation in pore pressure with time, *Figure PPDT*. This time is commonly referred to as t_{100} , the point at which 100% of the excess pore pressure has dissipated.

A complete reference on pore pressure dissipation tests is presented by Robertson et al. 1992.

A summary of the pore pressure dissipation tests is summarized in Table 1. Pore pressure dissipation data is presented in graphical form in Appendix PPDT.

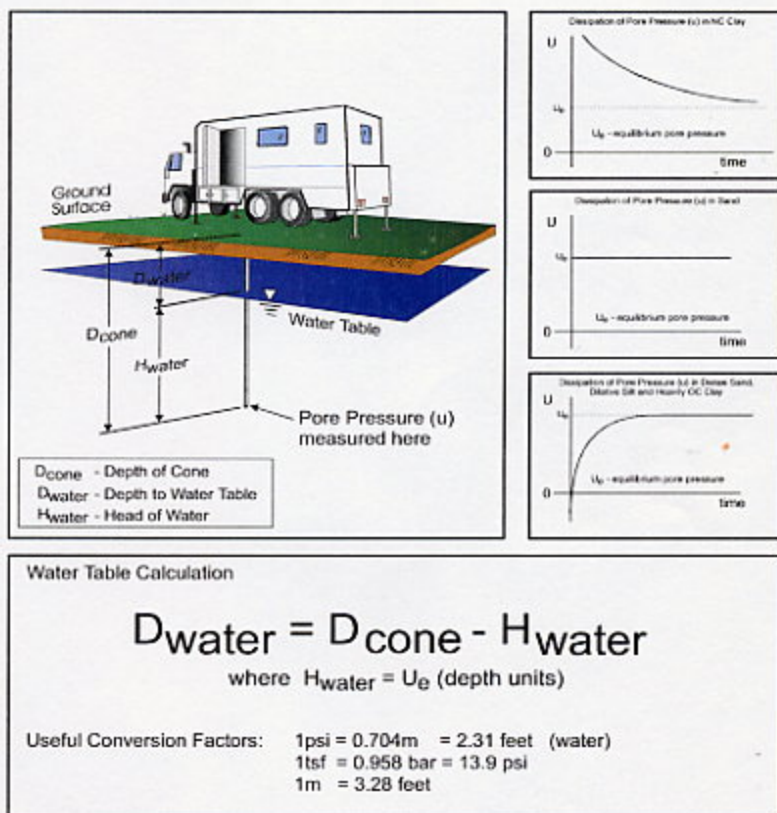


Figure PPDT



Groundwater Sampling (GWS)

Gregg In Situ, Inc. conducts groundwater sampling using a Hydropunch[®] type groundwater sampler, *Figure GWS*. The groundwater sampler has a retrievable stainless steel or disposable PVC screen with steel drop off tip. This allows for samples to be taken at multiple depth intervals within the same sounding location. In areas of slower water recharge, provisions may be made to set temporary PVC well screens during sampling to allow the drill rig to advance to the next sample location while the groundwater is allowed to infiltrate.

The groundwater sampler operates by advancing 1 3/4 inch hollow push rods with the filter tip in a closed configuration to the base of the desired sampling interval. Once at the desired sample depth, the push rods are retracted; exposing the encased filter screen and allowing groundwater to infiltrate hydrostatically from the formation into the inlet screen. A small diameter bailer (approximately 1/2 or 3/4 inch) is lowered through the push rods into the screen section for sample collection. The number of downhole trips with the bailer and time necessary to complete the sample collection at each depth interval is a function of sampling protocols, volume requirements, and the yield characteristics and storage capacity of the formation. Upon completion of sample collection, the push rods and sampler, with the exception of the PVC screen and steel drop off tip are retrieved to the ground surface, decontaminated and prepared for the next sampling event.

A summary of the groundwater samples collected, including the sampling date, depth and location identification, is presented in Table 1 and the corresponding CPT plot.

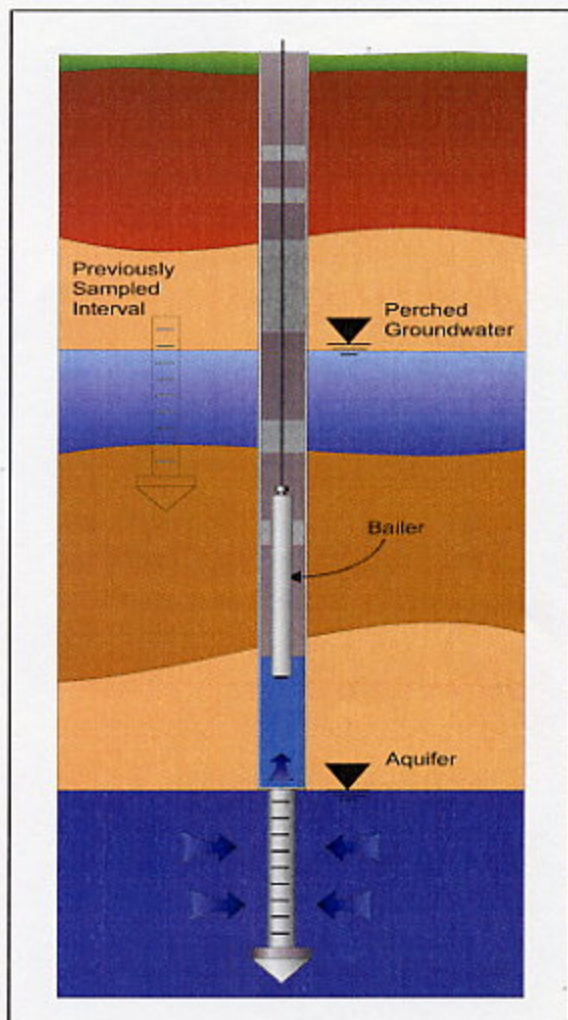


Figure GWS

For a detailed reference on direct push groundwater sampling, refer to Zemo et. al., 1992.



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Copies of ASTM Standards are available through www.astm.org

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LABORATORY REPORTS

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Message: 2 of 104 Printable Version

From: wells@acpwa.org Save Address | Headers
To: info@envirosoiltech.com
CC:
Date: Fri, 20 Oct 2006 16:30:05 -0700 (PDT)
Subject: **Alameda County PWA Online Wells Permits Application - Drilling Permit Extension**

Application ID: 1159226480771
Permit Number: W2006-0847

Your drilling permit has been extended as requested. Please contact the assigned inspector to re-schedule the inspection date at least five (5) working days prior to starting and confirm the scheduled date(s) at least 24 hours prior to drilling.

Conditions of Permit:

Please follow and comply with conditions of approval and instructions listed in the general conditions document. In addition, you must comply with all specific conditions listed in your permit. Your assigned inspector is also listed in the specific condition of the approved permit.

Original Project Start Date: 09/27/2006
Original Project End Date: 09/29/2006

Extension Count : 1
Extension By : jamesy
Extension Start Date: 10/23/2006
Extension End Date : 11/03/2006

If you need further assistance regarding your permit, please visit our website at: <http://www.acgov.org/pwa/wells/> or contact us at wells@acpwa.org, and include your application id number.

Thank you,
Public Works Agency-Water Resources

1159226480771.pdf (Binary attachment)

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Alameda County Public Works Agency - Water Resources Well Permit



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

Application Approved on: 09/27/2006 By jamesy

Permit Numbers: W2006-0847
Permits Valid from 10/23/2006 to 11/03/2006

Application Id: 1159226480771
Site Location: 400 San Pablo Ave, Albany CA
Project Start Date: 09/27/2006
Extension Start Date: 10/23/2006
Extension Count: 1

City of Project Site: Albany
Completion Date: 09/29/2006
Extension End Date: 11/03/2006
Extended By: jamesy

Applicant: Enviro Soil Tech Consultants - Frank Hamedi-
Fard
131 Tully Rd., San Jose, CA 95111
Property Owner: George & Diane Ososke
440 Davis Ct #910, San Francisco, CA 94111
Client: ** same as Property Owner **

Phone: 408-297-1500

Phone: --

	Total Due:	\$200.00
Receipt Number: WR2006-0445	Total Amount Paid:	\$200.00
Payer Name : Enviro Soil Tech Consultants & Geo Environmental	PAID By: CHECK	PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 13 Boreholes
Driller: Vironex Inc. - Lic #: 7052927 - Method: other

Work Total: \$200.00

Specifications

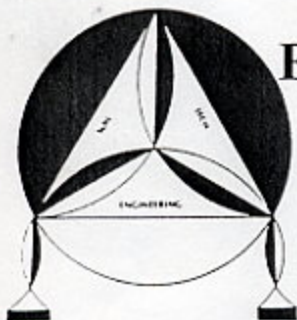
Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2006-0847	09/27/2006	12/26/2006	13	8.00 in.	50.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Applicant shall contact James Yoo for an inspection time at 510-670-6633 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
6. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this

A P P E N D I X "I"

FIELD NOTES



ENVIRO SOIL TECH CONSULTANTS

Environmental & Geotechnical Consultants

131 TULLY ROAD, SAN JOSE, CALIFORNIA 95111

Tel: (408) 297-1500

Fax: (408) 292-2116

FILE NO.: 8-90-421-51

WELL NO.: Stake #1

DATE: 12-11-06

SAMPLER: Retrad Mould

DEPTH TO WELL: _____

1 WELL VOLUME: 0.94

DEPTH TO WATER: 8 FT 122

5 WELL VOLUME: 4.7

HEIGHT OF WATER COLUMN: _____

ACTUAL PURGED VOLUME: 9

CASING DIAMETER: 2"

4"

CALCULATIONS:

2" - x 0.1632 5.78

4" - 0.653 _____

PURGE METHOD: BAILER DISPLACEMENT PUMP OTHER

SAMPLE METHOD: BAILER OTHER

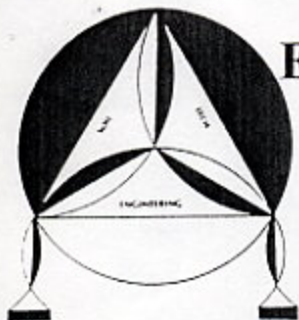
SHEEN: NO YES, DESCRIBE: RAIN ROU

ODOR: NO YES, DESCRIBE: PISTO

FIELD MEASUREMENTS

TIME	VOLUME	pH	TEMP.	E.C.
_____	<u>3 GAC</u>	<u>6.83</u>	<u>19.1</u>	<u>602</u>
_____	<u>6 GAC</u>	<u>6.56</u>	<u>19.0</u>	<u>588</u>
_____	<u>9 GAC</u>	<u>6.42</u>	<u>18.7</u>	<u>562</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

9 FT 138



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Tel: (408) 297-1500

Fax: (408) 292-2116

FILE NO.: 8-90-421-51

DATE: 12-11-06

DEPTH TO WELL: _____

DEPTH TO WATER: 7^{ft} .86

HEIGHT OF WATER COLUMN: _____

WELL NO.: STW-2

SAMPLER: Batched manually

1 WELL VOLUME: 1

5 WELL VOLUME: 5

ACTUAL PURGED VOLUME: 9

CASING DIAMETER: 2" 4"

CALCULATIONS:

2" - x 0.1632 6.14

4" - 0.653 _____

PURGE METHOD: BAILER DISPLACEMENT PUMP OTHER

SAMPLE METHOD: BAILER OTHER

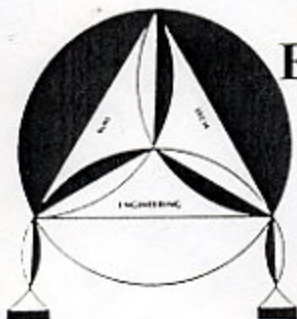
SHEEN: NO YES, DESCRIBE: RAIN BOW

ODOR: NO YES, DESCRIBE: PETRO

FIELD MEASUREMENTS

<u>TIME</u>	<u>VOLUME</u>	<u>pH</u>	<u>TEMP.</u>	<u>E.C.</u>
_____	<u>3 gpc</u>	<u>6.73</u>	<u>17.4</u>	<u>212</u>
_____	<u>6 gpc</u>	<u>5.84</u>	<u>17.9</u>	<u>303</u>
_____	<u>9 gpc</u>	<u>6.85</u>	<u>18.1</u>	<u>467</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

8^{ft} .32



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Tel: (408) 297-1500

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FILE NO.: 8-90-421-51

DATE: 12-11-06

DEPTH TO WELL: _____

DEPTH TO WATER: 5^{ft} .84

HEIGHT OF WATER COLUMN: _____

WELL NO.: STMW-3

SAMPLER: Richard Mandy

1 WELL VOLUME: 1.5

5 WELL VOLUME: 7.5

ACTUAL PURGED VOLUME: 9

CASING DIAMETER: ✓ 2" _____ 4"

CALCULATIONS:

2" - x 0.1632 9.16

4" - 0.653 _____

PURGE METHOD: _____ BAILER ✓ DISPLACEMENT PUMP _____ OTHER

SAMPLE METHOD: ✓ BAILER _____ OTHER

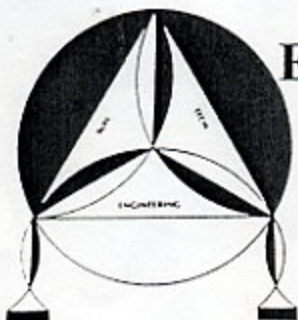
SHEEN: ✓ NO _____ YES, DESCRIBE: _____

ODOR: ✓ NO _____ YES, DESCRIBE: _____

FIELD MEASUREMENTS

<u>TIME</u>	<u>VOLUME</u>	<u>pH</u>	<u>TEMP.</u>	<u>E.C.</u>
_____	<u>3 gpc</u>	<u>6.74</u>	<u>16.4</u>	<u>460</u>
_____	<u>6 gpc</u>	<u>6.67</u>	<u>16.7</u>	<u>477</u>
_____	<u>9 gpc</u>	<u>5.58</u>	<u>16.5</u>	<u>451</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

6^{ft} .54



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Tel: (408) 297-1500

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FILE NO.: 8-90-421-51

DATE: 12-11-06

DEPTH TO WELL: _____

DEPTH TO WATER: 5^{ft} .19

HEIGHT OF WATER COLUMN: _____

WELL NO.: STW-4

SAMPLER: Perched manually

1 WELL VOLUME: 1.6

5 WELL VOLUME: 8

ACTUAL PURGED VOLUME: 9

CASING DIAMETER: ✓ 2"

_____ 4"

CALCULATIONS:

2" - x 0.1632

9.81

4" - 0.653

PURGE METHOD: _____ BAILER DISPLACEMENT PUMP _____ OTHER

SAMPLE METHOD: BAILER _____ OTHER

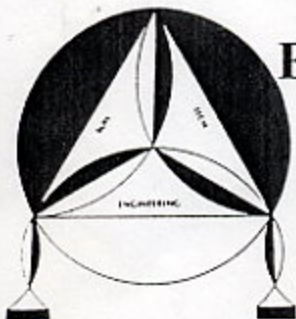
SHEEN: ✓ NO _____ YES, DESCRIBE: _____

ODOR: _____ NO _____ YES, DESCRIBE: _____

FIELD MEASUREMENTS

<u>TIME</u>	<u>VOLUME</u>	<u>pH</u>	<u>TEMP.</u>	<u>E.C.</u>
_____	<u>3 GAL</u>	<u>7.10</u>	<u>15.2</u>	<u>314</u>
_____	<u>6 GAL</u>	<u>6.95</u>	<u>15.5</u>	<u>320</u>
_____	<u>9 GAL</u>	<u>6.97</u>	<u>15.6</u>	<u>357</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

5^{ft} .54



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Tel: (408) 297-1500

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FILE NO.: 8-90-421-51

DATE: 12-11-06

DEPTH TO WELL: _____

DEPTH TO WATER: 5^{ft} .54

HEIGHT OF WATER COLUMN: _____

WELL NO.: STMW-5

SAMPLER: Richard Mundy

1 WELL VOLUME: 1.5

5 WELL VOLUME: 7.5

ACTUAL PURGED VOLUME: 9

CASING DIAMETER: ✓ 2" _____

_____ 4"

CALCULATIONS:

2" - x 0.1632 9.46

4" - 0.653 _____

PURGE METHOD: _____ BAILER ✓ DISPLACEMENT PUMP _____ OTHER

SAMPLE METHOD: ✓ BAILER _____ OTHER

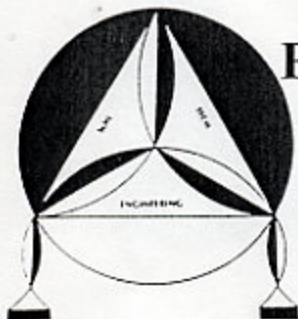
SHEEN: ✓ NO _____ YES, DESCRIBE: _____

ODOR: ✓ NO _____ YES, DESCRIBE: _____

FIELD MEASUREMENTS

TIME	VOLUME	pH	TEMP.	E.C.
_____	<u>3 GAL</u>	<u>8.08</u>	<u>16.1</u>	<u>338</u>
_____	<u>6 GAL</u>	<u>7.24</u>	<u>15.9</u>	<u>334</u>
_____	<u>9 GAL</u>	<u>6.73</u>	<u>16.0</u>	<u>326</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

6st .24



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Tel: (408) 297-1500

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FILE NO.: 8-90-421-51

DATE: 12-11-06

DEPTH TO WELL: _____

DEPTH TO WATER: 5 FT .86

HEIGHT OF WATER COLUMN: _____

WELL NO.: mw-2

SAMPLER: Perched manually

1 WELL VOLUME: 0.92

5 WELL VOLUME: 4.6

ACTUAL PURGED VOLUME: 9

CASING DIAMETER: ✓ 2" _____ 4"

CALCULATIONS:

2" - x 0.1632 5.64

4" - 0.653 _____

PURGE METHOD: _____ BAILER ✓ DISPLACEMENT PUMP _____ OTHER

SAMPLE METHOD: ✓ BAILER _____ OTHER

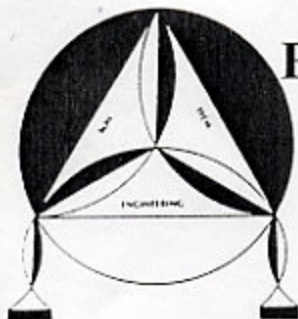
SHEEN: ✓ NO _____ YES, DESCRIBE: _____

ODOR: ✓ NO _____ YES, DESCRIBE: _____

FIELD MEASUREMENTS

<u>TIME</u>	<u>VOLUME</u>	<u>pH</u>	<u>TEMP.</u>	<u>E.C.</u>
_____	<u>3 GAL</u>	<u>7.20</u>	<u>15.2</u>	<u>318</u>
_____	<u>6 GAL</u>	<u>6.89</u>	<u>15.6</u>	<u>316</u>
_____	<u>9 GAL</u>	<u>6.67</u>	<u>15.3</u>	<u>333</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

6 FT .39



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Tel: (408) 297-1500

Fax: (408) 292-2116

FILE NO.: 8-90-421-51

DATE: 12-11-06

DEPTH TO WELL: _____

DEPTH TO WATER: 4^{ft} .22

HEIGHT OF WATER COLUMN: _____

WELL NO.: MW-3

SAMPLER: Richard Mendenly

1 WELL VOLUME: 1.3

5 WELL VOLUME: 6.5

ACTUAL PURGED VOLUME: 9

CASING DIAMETER: _____ 2" _____ 4"

CALCULATIONS:

2" - x 0.1632 7.78

4" - 0.653 _____

PURGE METHOD: _____ BAILER DISPLACEMENT PUMP _____ OTHER

SAMPLE METHOD: BAILER _____ OTHER

SHEEN: NO _____ YES, DESCRIBE: _____

ODOR: NO _____ YES, DESCRIBE: _____

FIELD MEASUREMENTS

<u>TIME</u>	<u>VOLUME</u>	<u>pH</u>	<u>TEMP.</u>	<u>E.C.</u>
_____	<u>3 GAL</u>	<u>7.55</u>	<u>17.5</u>	<u>847</u>
_____	<u>6 GAL</u>	<u>7.42</u>	<u>17.3</u>	<u>838</u>
_____	<u>9 GAL</u>	<u>7.48</u>	<u>17.1</u>	<u>836</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

4^{ft} .98