SITE CONCEPTUAL MODEL UPDATE
SECOND QUARTER 2006

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California
RDM Project No. 00-67106

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EXECUTIVE SUMMARY

This Site Conceptual Model (SCM) Update has been prepared by RDM Environmental, Inc. (RDM) and Haley & Aldrich, Inc. (Haley & Aldrich), on behalf of Tesoro Petroleum Companies, Inc. (Tesoro), for the former Tesoro Station No. 67106 located at 1088 Marina Boulevard, San Leandro, California. This report is submitted in fulfillment of the requirements of the California Regional Water Quality Control Board, San Francisco Bay Region (CRWQCBSFB), the Alameda County Health Care Agency – Department of Health and the City of San Leandro – Environmental Service Division. This report contains only updates to the Site Conceptual Model Update First Quarter 2006 report dated May 15, 2005 (RDM). Standard background information previously submitted to the agency in hard copy is not included in this update report. This information can be found in hard copy by referring to the SCM report dated November 10, 2005, or electronically accessed on the Tesoro North Hollywood Sharepoint website (https://portal.haleyaldrich.com/sites/ext/San Leandro).

Currently, the groundwater flow is toward the southwest, which is generally consistent with recent monitoring events, and consistent with historical groundwater flow direction. Total Petroleum Hydrocarbons as gasoline (TPH-G) are currently detected in Wells MW-1, MW-2, and MW-3 at concentrations greater than the environmental screening level (ESL) for groundwater that is a current or potential drinking water resource. Benzene, Ethylbenzene and Total Xylenes are currently detected in Well MW-2 at concentrations greater than the drinking water resource ESL. All other on-site and off-site Wells are either non-detect (ND) or have concentrations below the drinking water resource ESLs for TPH-G, BTEX, MTBE and other fuel oxygenates.

Significant concentration reductions have been observed since beginning this monitoring program: the highest MTBE concentration detected this quarter (2.1 ug/L, May 12, 2006 in Well MW-3) is less than one one-hundredth of a percent of the historical maximum of 84,000 ug/L; the highest combined BTEX concentration detected this quarter (75.3 ug/L, May 12, 2006 in Well MW-2) is approximately one percent that of the historical maximum of 7,300 ug/L; and the highest TPH-G concentration detected this quarter (3,600 ug/L, May 12, 2006 in Well MW-1) is approximately one tenth that of the historical maximum of 35,000 ug/L. The remedial approach has slowed the migration of the gasoline plume and has substantially reduced contaminant concentrations in the aquifer.

Soil vapor extraction has reached the limit of its effectiveness as no measurable concentrations of VOCs or TPH-G were detected in the vapor stream during this quarter. We are proposing to temporarily suspend active remediation during the 2nd and 3rd Quarters of 2006 to allow an assessment of site rebound and equilibrium concentrations for a six month period. This proposed approach was agreed to in the Alameda County Health Care Services (ACEH) letter dated April 11, 2006, and all active treatment (i.e., ozone sparging and soil vapor extraction) systems were shut down on May 12, 2006, immediately prior to the Second Quarter sampling event.

The ACEH letter (April 11, 2006) also requested the completion of a detailed well survey for wells within a 2,000-foot radius of the site to identify potential down gradient receptors and to assess which groundwater contaminant screening criteria are most applicable to the site. This assessment will be used to focus subsequent remedial action on the areas warranting further attention and facilitate a better understanding of which technology (ies) will be most appropriate to complete site restoration. The detailed well survey was completed in July 2006 and included contacting the Department if Water Resources and the Alameda County Water District; information from these agencies was used to conduct a door-to-door well search. Forty-four wells were identified within a 1,600-foot radius of the site. Two wells were identified as domestic wells, twenty-three were identified as irrigation wells and nineteen were identified as monitoring wells related to previous investigations.

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1.0 INTRODUCTION

This Site Conceptual Model (SCM) Update Report has been prepared by RDM Environmental, Inc. (RDM) and Haley & Aldrich, Inc. (Haley & Aldrich), on behalf of Tesoro Petroleum Companies, Inc. (Tesoro) for the former Tesoro Station No. 67106 located at 1088 Marina Boulevard, San Leandro, California. This report contains only updates to the previously submitted documents. The most recently prepared project reports and standard project reference materials consistently contained in quarterly reports submitted to the CRWQCBSFB (e.g., site background, local groundwater use, site geology and hydrogeology, general field procedures, previous work, remedial system descriptions) are available in hard copy in any of the previous report submittals or electronically on the Tesoro San Leandro Sharepoint website (https://portal.haleyaldrich.com/sites/ext/Tesoro/San Leandro), a project data portal and collaborative resource that is currently available to all members of the project team and interested stakeholders.

Total Petroleum Hydrocarbons as gasoline (TPH-G), Benzene, Ethylbenzene and Total Xylenes remain the main constituents of concern in groundwater beneath this site. The plume is contained within the site boundary with TPH-G concentrations in Wells MW-1, MW-2, and MW-3, at concentrations greater than the environmental screening level (ESL) for groundwater that is a current or potential drinking water resource. Benzene, Ethylbenzene and Total Xylenes are currently detected in Well MW-2 at concentrations greater than the drinking water resource ESL. All other on-site and off-site Wells are either non-detect (ND) or have concentrations below the drinking water resource ESLs for TPH-G, BTEX, MTBE and other fuel oxygenates.

Soil vapor extraction (SVE) from Wells MW-2, MW-3, MW-8, MW-9, VW-1, ozone sparging in Wells MW-1, MW-4 and MW-5, coupled with air sparging in sparge points SP-1 through SP-6 have significantly reduced subsurface contaminant concentrations and have prevented off-site migration.

Significant concentration reductions have been observed since beginning this monitoring program: the highest MTBE concentration detected this quarter (2.1 ug/L, May 12, 2006 in Well MW-3) is less than one one-hundredth of a percent of the historical maximum of 84,000 ug/L; the highest combined BTEX concentration detected this quarter (75.3 ug/L, May 12, 2006 in Well MW-2) is approximately one percent that of the historical maximum of 7,300 ug/L; and the highest TPH-G concentration detected this quarter (3,600 ug/L, May 12, 2006 in Well MW-1) is approximately one tenth that of the historical maximum of 35,000 ug/L. The remedial approach has slowed the migration of the gasoline plume and has substantially reduced contaminant concentrations in the aquifer.

2.0 SITE BACKGROUND

Site description and groundwater use details are available in hard copy in any of the previous report submittals or electronically on the Tesoro San Leandro Sharepoint website (https://portal.haleyaldrich.com/sites/ext/Tesoro/San Leandro).

3.0 ENVIRONMENTAL SETTING

Descriptions of the site geologic and hydrogeologic conditions are available in hard copy in any of the previous report submittals or electronically on the Tesoro San Leandro Sharepoint website (https://portal.haleyaldrich.com/sites/ext/Tesoro/San Leandro). A site topographic map and site map are shown as Figures 1 and 2, respectively.

4.0 SITE ASSESSMENT ACTIVITIES

In a letter dated April 11, 2006, ACEH requested the completion of a detailed well survey for wells within a 2,000-foot radius of the site to identify potential down gradient receptors and to assess which groundwater contaminant screening criteria are most applicable to the site. The well survey was completed in July 2006 and the results are discussed in greater details in Section 9.0.

A summary of previous work conducted at the site is available in hard copy in any of the previous report submittals or electronically on the Tesoro San Leandro Sharepoint website (https://portal.haleyaldrich.com/sites/ext/Tesoro/San Leandro).

5.0 QUARTERLY GROUNDWATER MONITORING AND SAMPLING

5.1 GROUNDWATER MONITORING AND SAMPLING ACTIVITIES

On May 12, 2006, groundwater levels in Monitoring Wells MW-1 through MW-8 were measured prior to well purging and sampling. No free product was observed in any of the groundwater monitoring wells and has not been observed in any project monitoring well since before March 1998. Groundwater monitoring data are presented in Table 1.

Field parameters and groundwater samples were not collected from MW-9 due to a blockage encountered approximately 5 feet below surface grade (bsg) (~7 feet above groundwater). Visual inspection of the blockage material identified a fine-grained clay with high plasticity.

The source of the blockage material is unknown. In a follow-up discussion, the station manager indicated that over the past several months, on-site and local sewer lines have experienced similar blockages. Based on an investigation of the well head, there was no indication that soil was poured down the well. On July 17, 2006, the blockage was removed using a vacuum truck. The rigged stinger (used to pump out the water) showed no indication of any breaks in the screened interval and there was no indication of water mounding near MW-9. If a similar condition is observed during subsequent monitoring and sample collection events an in-well camera will be utilized to confirm the integrity of the screened interval and well casing.

Data used to prepare the groundwater elevation contour maps were obtained from fluid level sensors deployed during the May 12, 2006 sampling event. Groundwater elevation data are summarized in Table 1. The groundwater elevation contour map, using data obtained during the May 12, 2006 sampling event, is shown in Figure 3 and indicates that groundwater direction is predominately to the southwest.

5.2 LABORATORY ANALYSIS

Groundwater samples collected during this sampling event were analyzed by a State-certified laboratory, for total petroleum hydrocarbons as gasoline (TPH-G) using the Department of Health Services Leaking Underground Fuel Tank (DHS LUFT) Method, and volatile organic compounds (VOCs), including

benzene, toluene, ethylbenzene, total xylenes (BTEX), MTBE, and other fuel oxygenates using Environmental Protection Agency (EPA) Method 8260B.

Additional samples were collected for the analysis of monitored natural attenuation (MNA) parameters (including: dissolved oxygen, redox potential, pH, conductivity, ferrous iron, total iron, alkalinity, carbon dioxide, total organic carbon) from all wells using low flow sampling methods. MNA parameter results are summarized in Table 2. These parameters were collected to determine typical subsurface conditions during periods of active remediation (i.e., ozone/air sparging and SVE) and will be compared to analytical results from samples collected during the temporary suspension of active remediation over the next 6 months.

Historical and quarterly laboratory analytical results of groundwater samples (including First Quarter 2006) are presented in Table 1. Dissolved-phase Benzene, TPH-G, MTBE and total Xylenes iso-concentration maps are shown as Figures 4, 5, 6, and 7, respectively. Copies of the official laboratory reports and chain of custody records for the 2nd Quarter 2006 quarterly groundwater sampling event are included in Appendix B. In addition, field data sheets from the quarterly monitoring and sampling event are included in Appendix A.

5.3 FINDINGS

On May 12, 2006, groundwater was measured at depths between 10.6 feet and 13.0 feet bsg. Based on previous groundwater elevation data, the groundwater elevation has decreased 0.25 feet, on average, across the site due to seasonal variability. Groundwater flow beneath the site is to the southwest under a hydraulic gradient less than 0.05 foot per foot. Groundwater monitoring data are presented in Tables 1 and 2, and the groundwater elevation contour map is shown as Figure 3.

Results of laboratory analysis of groundwater samples collected on May 12, 2006, from Wells MW-1 through MW-8 are summarized in Table 1 and indicate the following:

- TPH-G was detected in groundwater samples collected from Wells MW-1, MW-2, and MW-3 at concentrations of 3600, 1400 and 960 ug/L, respectively. Results show a significant reduction in TPH-G concentrations from the First Quarter 2006 analytical results, with the exception of MW-9 which was not sampled due to a well blockage. All other Wells were ND (<50 ug/L).

- Benzene was detected in groundwater samples collected from Wells MW-2 and MW-3 at concentrations of 2.3 and 2.4 ug/L, respectively. Results are consistent with groundwater sample results from the First Quarter 2006 and show a slight decrease in contaminant concentrations.

- Toluene was detected in groundwater samples collected from Wells MW-1, MW-2, MW-3, MW-4, MW-6 and MW-7 at concentrations of 1.0, 1.6, 1.2, 0.62, 0.72 and 0.59 ug/L, respectively. All results for Toluene are below the ESL for groundwater (40 ug/L) that is a current or potential drinking water resource.

- Ethylbenzene was detected in groundwater samples collected from Wells MW-1, MW-2, and MW-3 at concentrations of 26, 39, and 1.8 ug/L, respectively. All wells except MW-2 meet the drinking water resource ESL for Ethylbenzene of 30 ug/L that is a current or potential drinking water resource.

- Total Xylenes were detected in groundwater samples collected from Wells MW-1, MW-2, and MW-3 at concentrations of 12, 34, and 1.1 ug/L, respectively. All wells except for MW-2 meet the drinking water resource ESL for Total Xylenes of 20 ug/L.

- MTBE was detected in groundwater samples collected from Wells MW-3, MW-5, and MW-7 at concentrations of 2.1, 0.54, and 0.57 ug/L, respectively. All results for MTBE are below the ESL for groundwater (5 ug/L) that is a current or potential drinking water resource.

6.0 SITE CONCEPTUAL MODEL OVERVIEW AND UPDATE

Currently, the groundwater flow is toward the southwest, which is generally consistent with recent monitoring events, and consistent with the previous SCM for the site. During the 2nd Quarter 2006, Wells MW-1, MW-4 and MW-5 were connected to an ozone sparging system, and Wells MW-2, MW-3, MW-8 and VW-1 were connected to a soil vapor extraction system. All Wells have shown significant decreases in TPH-G, BTEX and MTBE concentrations over the last year, with a leveling off during the past two quarters. Additionally, an air sparging system was connected to sparge points SP-1 through SP-6, in an effort to stimulate aerobic biodegradation pathways. As proposed by Tesoro and approved in the ACEH letter dated April 11, 2006, all active treatment activities were temporarily suspended on May 12, 2006 in order to conduct an assessment of equilibrium conditions for a period of six months.

7.0 QUARTERLY REMEDIAL PROGRESS OF SOIL VAPOR EXTRACTION SYSTEM

7.1 OPERATIONS UPDATE

During the Second Quarter 2006 the SVE system continued to operate with extraction from Wells MW-2, MW-3, MW-8, and VW-1. The effluent vapor from the SVE blower was abated using two 600-lb carbon vessels connected in series. During the Second Quarter 2006 no detectable concentrations of BTEX, MTBE, or TPH-G were identified in the SVE vapor stream (Table 2). It is estimated that less than 12 pounds of vapor equivalent gasoline were removed during the Second Quarter 2006 (Table 3), calculated using the analytical method reporting limit for each constituent as the vapor stream concentration. The cumulative vapor equivalent gasoline removed (Table 3), as of January 13, 2003, is estimated at 3,094 pounds (507 gallons).

7.2 CONCLUSIONS AND RECOMMENDATIONS

Active SVE remediation was temporarily suspended on May 12, 2006 and will remain off for a period of 6 months to conduct an assessment of site rebound and subsurface conditions under equilibrium conditions state.

8.0 QUARTERLY REMEDIAL PROGRESS OF GROUNDWATER TREATMENT SYSTEM

8.1 OPERATIONS UPDATE

During the Second Quarter 2006, two 0.5 lb/hr ozone generators, connected in parallel, continuously sparged ozone in monitoring Wells MW-1, MW-4 and MW-5. Significant reductions in BTEX and MTBE concentrations have occurred over the past year, with a leveling off during the past two quarters. The application of ozone sparging has had little effect in decreasing TPH-G concentrations over the past two quarters.

8.2 CONCLUSIONS AND RECOMMENDATIONS

Although groundwater monitoring data shown in Table 1 show significant reduction in contaminant concentrations throughout the site, it also shows a leveling off of treatment system performance. The results to date may not reflect actual aquifer conditions beyond the bore water of each ozone sparging well due to the small radius of influence resulting from the tight nature of the subsurface clay. Analytical results may also be biased low because many of the on-site monitoring wells are either vapor extraction or ozone injection points (ozone injection at MW-1, MW-4, and MW-5; SVE at MW-2, MW-3, MW-8, and MW-9). Active ozone and air sparging remediation were temporarily suspended on May 12, 2006 and will remain off for a period of 6 months to conduct an assessment of site conditions under equilibrium conditions.

9.0 WELL SURVEY

In a letter dated April 11, 2006, ACEH requested that Tesoro conduct a well survey to locate all wells (monitoring and water supply wells: active, inactive, standby, decommissioned, and abandoned) within a 2,000-foot radius of the site. Mistakenly, the well survey was conducted to only a 1,600-foot radius, but this distance was deemed acceptable in a phone conversation with Jerry Wickham from ACEH (August 7, 2006).

The Well Survey was completed in July 2006. Well information was obtained from the Alameda County Public Works Agency and State of California Department of Water Resources. Information from these agencies was used to conduct a door-to-door well search.

A total of 44 wells were identified within a 1,600-foot radius of the site; 2-domestic wells, 23-irrigation wells and 19-monitoring wells related to previous investigations. Results of the well survey are summarized in Table 5 and plotted on the Water Well Location Map (Figure 8).

Wells labeled 1 through 11 were identified as monitoring wells related to local underground storage tank investigations. Based on the field investigation, site upgrades, and onsite interviews, these wells have been decommissioned.

Wells labeled 12 and 13 were the only two domestic wells discovered during the well search, with Well 12 as the only downgradient water supply receptor (1,600 feet from the site).

Wells labeled 14 through 21 are monitoring wells, similar to Wells 1-11, that appear to have been decommissioned.

Wells labeled 22 through 44 are irrigation wells that were located during the door-to-door investigation. There was little information regarding these wells. Most of the property owners do not have well construction details. Field interview of the East Bay Municipal Utilities District personnel indicate the district installed extra back flow valves at the homes with wells to prevent contamination of the city water supply. These wells are located north of the site and are up gradient. Note: it appears these irrigation wells are shallow and may not be legal to use as domestic wells (50 foot seals).

Based on the results of the Well survey and follow-up discussion with ACEH the most applicable ESL for the site is based on groundwater screening levels where groundwater is a current or potential drinking water resource.

10.0 PROPOSED WORK ACTIVITIES

RDM, Haley & Aldrich, and Tesoro propose the following work activities for the Second and Third Quarters of 2006:

- Maintain remediation shut-down for a minimum 6-month period. We anticipate, based on experience at sites with similar subsurface conditions, that six months is sufficient time for the subsurface to reach equilibrium conditions.

- During the third month of remediation shutdown, collect TPH-G, VOC and MNA parameters from all wells using low flow sampling methods. This data will be reported in our next quarterly SCM update. Sample collection is tentatively scheduled for August 11, 2006.

- At the end of the six month period sample each well for TPH-G, VOC, and MNA parameter analysis. Sample collection is tentatively scheduled for November 10, 2006. We anticipate the analytical results will provide insight with respect to the following two concerns:
    - Whether subsurface conditions are appropriate for the current remedial approach.
    - The extent to which the current remedial approach has been effective.

- Regularly scheduled monitoring of water levels in key wells within the monitoring network to provide groundwater flow gradient and direction data.

- Continue quarterly groundwater compliance reporting under this new reporting format, including updates to the SCM as appropriate.

11.0 STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATION

The conclusions presented herein are based solely upon the agreed upon scope of work outlined in this report. RDM makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. It is possible that information exists beyond the scope of this investigation. Additional information, which was not found or available to RDM at the time of writing this report, may result in modification of the conclusions presented. This report is not a legal opinion. The services performed by RDM have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. No other warranty, expressed or implied, is made.

This report was supervised or prepared by the licensed professional whose signature and license number appear below.

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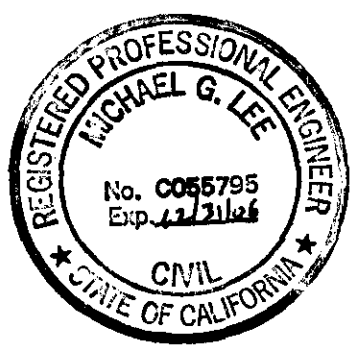

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12.0 REFERENCES

Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater; Volume 1: Summary Tier 1 Lookup Tables. California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final – 2005.

Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater; Volume 2: Background Documentation for the Development of Tier I Environmental Screening Levels. California Regional Water Quality Control Board, San Francisco Bay Region, Interim Final – 2005.

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-1	03/12/98	33.10	11.09	22.01	<0.5	<0.5	5.0	2.8	100	<5.0	NA	No sheen
	05/28/98		11.36	21.74	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	08/31/98		12.61	20.49	<0.5	<0.5	6.4	1.4	130	<5.0	NA	No sheen
	11/19/98		13.84	19.26	0.75	<0.5	<0.5	3.0	120	<5.0	NA	No sheen
	03/15/99		11.95	21.15	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/07/99		13.45	19.65	1.6	1.9	230	110	5,200	<5.0	NA	No sheen
	09/07/99		13.10	20.00	1.0	<0.5	22	15	490	<5.0	NA	No sheen
	12/13/99		14.29	18.81	<2.5	<2.5	170	110	4,100	<25	NA	No sheen
	03/08/00		11.22	21.88	<0.5	<0.5	21	7.7	1,200	150	NA	No sheen
	06/12/00		12.85	20.25	1.5	0.9	160	98	3,000	34	NA	No sheen
	11/15/00		14.19	18.91	<20	<20	470	390	8,500	14,000	NA	No sheen
	02/27/01		12.35	20.75	5.4	2.6	260	190	6,100	4,300	NA	No sheen
	05/22/01		14.18	18.92	8.9	13	1,100	1,300	21,000	2,300	NA	No sheen
	09/05/01		13.70	19.10	<2.0	3.6	600	850	12,000	93	NA	No sheen
	11/07/01		14.25	18.85	<5.0	<5.0	1,300	1,600	23,000	87	NA	No sheen
	02/11/02	35.47	13.05	22.42	<0.5	<0.5	140	150	4,500	18	NA	No sheen
	06/03/02		13.31	22.16	<2.5	<2.5	520	460	12,000	12	NA	No sheen
	08/06/02		13.75	21.72	<0.5	<0.5	710	580	22,000	15	NA	No sheen
	11/14/02		14.10	21.37	<5.0	<5.0	300	250	16,000	8.1	ND	No sheen
	02/20/03		12.80	22.67	<1.5	<1.5	130	89	7,300	9.3	ND	No sheen
	05/15/03		12.90	22.57	<2.5	<2.5	270	120	14,000	4.7	ND	No sheen
	07/31/03		13.50	21.97	<5.0	<5.0	380	230	18,000	5.2	ND	No sheen
	10/28/03		14.42	21.05	<5.0	<5.0	340	210	17,000	<5.0	ND	No sheen
	02/28/04		12.72	22.75	<2.0	<2.0	140	48	10,000	4.8	ND	No sheen
	04/16/04		13.52	21.95	<0.5	<0.5	29	11	2,800	2.1	ND	No sheen
	07/16/04		14.04	21.43	<0.5	0.57	130	74	5,500	1.4	ND	No sheen
	11/13/04		13.99	21.43	<0.70	<0.70	56	25	4,000	ND	ND	No sheen
	02/04/05		13.36	22.11	0.57	<0.5	140	58	9,700	0.75	ND	No sheen
	04/08/05		12.43	23.04	<1.5	<1.5	84	24	8,100	<1.5	ND	No sheen
	08/10/05		13.62	21.85	<1.5	<1.5	92	32	8,700	<1.5	ND	No sheen
	11/05/05		13.95	21.52	<1.5	<1.5	92	38	9,200	<1.5	ND	No sheen
	01/13/06		12.43	23.04	<1.5	<1.5	34	17	6,500	<1.5	ND	No sheen
	05/12/06		12.40	23.33	<0.5	1.0	26	12	3,600	<0.5	330[d], 390[e]	No sheen

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-2	03/12/98	32.80	10.92	21.88	32	1.0	12	6.5	440	20	NA	No sheen
	05/28/98		10.41	22.39	<0.5	<0.5	<0.5	<0.5	<50	27	NA	No sheen
	08/31/98		12.29	20.51	9.3	0.95	4.9	8.8	270	20	NA	No sheen
	11/19/98		13.47	19.33	16	0.72	<0.5	4.3	180	7.4	NA	No sheen
	03/15/99		11.95	20.85	12	3.5	59	840	2,400	10	NA	No sheen
	06/07/99		13.11	19.69	21	0.99	6.9	10	690	6.1	NA	No sheen
	09/07/99		12.92	19.88	7.8	1.2	42	100	610	<5.0	NA	No sheen
	12/13/99		13.96	18.84	26	0.93	52	96	3,000	<5.0	NA	No sheen
	03/08/00		10.87	21.93	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/12/00		12.53	20.27	51	17	170	320	5,500	18	NA	No sheen
	11/15/00		13.96	18.84	75	48	1,200	2,800	16,000	19,000	NA	No sheen
	02/27/01		12.29	20.51	54	24	320	870	10,000	6,000	NA	No sheen
	05/22/01		15.51	17.29	12	5.0	79	100	2,400	3,500	NA	No sheen
	09/05/01		13.75	19.05	120	180	1,500	5,100	34,000	400	NA	No sheen
	11/07/01		13.99	18.81	87	170	1,400	3,700	32,000	870	NA	No sheen
	02/11/02	35.11	12.98	22.13	170	250	1,600	4,700	34,000	390	NA	No sheen
	06/03/02		13.24	21.87	130	260	1,700	5,100	29,000	110	NA	No sheen
	08/06/02		13.73	21.38	110	240	1,700	4,700	34,000	84	NA	No sheen
	11/14/02		13.55	21.56	51	150	1,300	3,600	35,000	39	ND	No sheen
	02/20/03		11.80	23.31	67	130	1,100	2,800	23,000	71	ND	No sheen
	05/15/03		12.27	22.84	57	110	840	2,300	19,000	43	ND	No sheen
	07/31/03		13.46	21.65	78	210	2,000	5,000	31,000	36	ND	No sheen
	10/28/03		14.09	21.02	59	120	2,000	3,600	32,000	19	ND	No sheen
	02/28/04		12.27	22.84	21	26	520	980	10,000	35	ND	No sheen
	04/16/04		13.22	21.89	30	30	540	890	11,000	30	23[c]	No sheen
	07/16/04		13.76	21.35	42	36	1,200	2,300	21,000	17	ND	No sheen
	11/13/04		13.79	21.35	25	27	780	1,300	14,000	9.1	ND	No sheen
	02/04/05		13.08	22.03	24	20	720	1,000	14,000	8.6	ND	No sheen
	04/08/05		12.11	23.00	19	11	580	630	14,000	7.9	ND	No sheen
	08/10/05		13.27	21.84	21	11	610	520	13,000	7.6	ND	No sheen
	11/05/05		11.92	23.19	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	01/13/06		12.26	22.85	17	7.8	220	230	6,800	3.5	ND	No sheen
	05/12/06		11.64	23.47	2.3	1.6	39	34	1,400	<0.5	200[d], 190[e]	No sheen

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-3	03/12/98	32.30	10.81	21.49	0.67	<0.5	7.1	3.4	1,200	7.3	NA	No sheen
	05/28/98		11.45	20.85	<0.5	0.5	<0.5	<0.5	350	<5.0	NA	No sheen
	08/31/98		12.21	20.09	<0.5	0.89	0.69	<0.5	240	<5.0	NA	No sheen
	11/19/98		13.26	19.04	5.3	0.72	0.86	4.2	440	<5.0	NA	No sheen
	03/15/99		11.89	20.41	3.3	1.3	0.77	<0.5	410	<5.0	NA	No sheen
	06/07/99		12.91	19.39	<0.5	2.0	<0.5	0.66	680	<5.0	NA	No sheen
	09/07/99		12.81	19.49	<0.5	0.62	<0.5	8.7	150	12	NA	No sheen
	12/13/99		13.75	18.55	<0.5	0.52	<0.5	1.0	830	<5.0	NA	No sheen
	03/08/00		11.39	20.91	0.58	<0.5	0.77	<0.5	960	<5.0	NA	No sheen
	06/12/00		12.58	19.72	1.7	<0.5	46	6.3	1,700	<5.0	NA	No sheen
	11/15/00		13.85	18.45	<200	<200	<200	<200	<20,000	84,000	NA	No sheen
	02/27/01		12.22	20.08	98	<20	130	30	3,500	16,000	NA	No sheen
	05/22/01		13.66	18.64	41	<20	20	<20	<2,000	5,800	NA	No sheen
	09/05/01		13.41	18.89	9.9	1.5	49	8.2	5,300	430	NA	No sheen
	11/07/01		13.85	18.45	9.4	1.8	47	8.8	6,500	1,600	NA	No sheen
	02/11/02	34.84	12.86	21.98	8.9	<2.0	14	<2.0	2,400	530	NA	No sheen
	06/03/02		13.10	21.74	13	0.77	19	0.94	2,100	110	NA	No sheen
	08/06/02		13.52	21.32	25	2.5	12	1.1	2,800	120	NA	No sheen
	11/14/02		13.49	21.35	29	0.89	3.7	<0.5	2,200	420	1.1[b], 19[c]	No sheen
	02/20/03		12.92	21.92	2.5	<0.5	<0.5	<0.5	2,400	340	13[c]	No sheen
	05/15/03		12.83	22.01	2.0	<0.5	1.2	<0.5	2,100	200	0.85[b], 15[c]	No sheen
	07/31/03		13.44	21.40	1.2	<0.5	<0.5	<0.5	1,600	330	0.81[b], 15[c]	No sheen
	10/28/03		13.92	20.92	1.0	<0.5	<0.5	<0.5	1,600	160	7.1[c]	No sheen
	02/28/04		12.50	22.34	1.2	<0.5	0.74	<0.5	1,400	58	74[c]	No sheen
	04/16/04		13.07	21.77	1.2	<0.5	<0.5	<0.5	1,400	45	95[c]	No sheen
	07/16/04		13.62	21.22	6.1	1.1	<0.5	0.83	1,900	43	21[c]	No sheen
	11/13/04		13.70	21.22	4.7	0.79	<0.5	<0.5	1,300	30	82[c]	No sheen
	02/04/05		12.94	21.90	0.79	<0.5	<0.5	<0.5	1,300	10	12[c]	No sheen
	04/08/05		12.10	22.74	<0.5	<0.5	<0.5	<0.5	770	4.2	ND	No sheen
	08/10/05		13.19	21.65	3.4	0.61	0.57	<0.5	1,600	6.3	11[c]	No sheen
	11/05/05		13.46	21.38	7.1	1.0	2.7	0.75	2,200	3.6	13[c]	No sheen
	01/13/06		12.20	22.64	5.0	1.1	4.9	1.2	1,200	3.1	9.8[a]	No sheen
	05/12/06		11.79	23.05	2.4	1.2	1.8	1.1	960	2.1	6.1[c], 220[d], 300[e]	No sheen

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-4	03/12/98	32.90	11.31	21.59	2,200	1,500	630	3,000	14,000	440	NA	No sheen
	05/28/98		10.40	22.50	<0.5	0.75	0.68	6.9	67	26	NA	No sheen
	08/31/98		12.54	20.36	1.8	2.5	0.65	3.4	<50	<5.0	NA	No sheen
	11/19/98		13.99	18.91	<0.5	<0.5	<0.5	0.61	<50	17	NA	No sheen
	03/15/99		12.06	20.84	1.2	1.6	0.76	4.5	160	9.3	NA	No sheen
	06/07/99		13.57	19.33	210	370	350	2,000	5,800	<20	NA	No sheen
	09/07/99		10.30	22.60	2.2	2.8	4.8	25	130	12	NA	No sheen
	12/13/99		14.18	18.72	1.3	1.0	1.2	4.8	<50	12	NA	No sheen
	03/08/00		11.77	21.13	78	200	160	750	3,700	11	NA	No sheen
	06/12/00		13.47	19.43	<0.5	<0.5	<0.5	<0.5	<50	24	NA	No sheen
	11/15/00		14.33	18.57	12	38	28	130	710	1,300	NA	No sheen
	02/27/01		14.25	18.65	67	300	310	1,400	6,500	1,000	NA	No sheen
	05/22/01		13.99	18.91	2.1	5.6	4.8	20	130	350	NA	No sheen
	09/05/01		15.75	17.15	110	670	250	1,300	6,200	600	NA	No sheen
	11/07/01		16.10	16.80	40	270	180	940	4,100	110	NA	No sheen
	02/11/02	35.33	15.04	20.29	91	590	620	3,000	14,000	350	NA	No sheen
	06/03/02		13.61	21.72	69	390	190	1,100	4,300	240	NA	No sheen
	08/06/02		15.01	20.32	100	690	570	2,900	13,000	170	NA	No sheen
	11/14/02		13.98	21.35	65	380	550	3,400	20,000	130	ND	No sheen
	02/20/03		13.33	22.00	57	240	650	3,700	18,000	98	ND	No sheen
	05/15/03		13.29	22.04	44	100	200	1,200	8,500	120	21[c]	No sheen
	07/31/03		13.76	21.57	42	59	250	1,400	11,000	87	ND	No sheen
	10/28/03		14.48	20.85	80	40	130	650	8,100	130	20[c]	No sheen
	02/28/04		12.96	22.37	85	430	570	3,700	17,000	67	ND	No sheen
	04/16/04		13.57	21.76	72	420	570	3,800	19,000	60	ND	No sheen
	07/16/04		14.16	21.17	46	330	360	2,200	10,000	58	28[c]	No sheen
	11/13/04		14.34	21.17	50	240	360	2,200	9,400	22	ND	No sheen
	02/04/05		13.56	21.77	14	160	170	1,100	4,800	7.9	ND	No sheen
	04/08/05		12.65	22.68	15	160	200	1,200	5,800	6.6	ND	No sheen
	08/10/05		13.73	21.60	7.0	110	100	570	3,000	5.2	9.9[c]	No sheen
	11/05/05		14.35	20.98	6.0	91	95	630	3,000	5.3	9.1[c]	No sheen
	01/13/06		12.76	22.57	8.3	100	160	860	4,000	4.9	6.7[a]	No sheen
	05/12/06		12.56	22.75	<0.5	0.62	<0.5	<0.5	<50	<0.5	180[d], 260[b]	No sheen

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-5	03/12/98	32.70	11.11	21.59	2,600	160	470	2,200	12,000	<250	NA	No sheen
	05/28/98		10.92	21.78	480	99	160	730	4,700	<250	NA	No sheen
	08/31/98		12.79	19.91	200	14	55	220	1,400	180	NA	No sheen
	11/19/98		13.39	19.31	1.4	<0.5	<0.5	<0.5	<50	39	NA	No sheen
	03/15/99		11.71	20.99	320	17	290	780	3,400	33	NA	No sheen
	06/07/99		13.26	19.44	220	8.9	240	290	3,200	<25	NA	No sheen
	09/07/99		9.70	23.00	8.5	<0.5	8.5	12	140	38	NA	No sheen
	12/13/99		14.06	18.64	<0.5	<0.5	<0.5	13	140	<5.0	NA	No sheen
	03/08/00		11.80	20.90	0.66	<0.5	2.5	30	280	<5.0	NA	No sheen
	06/12/00		12.99	19.71	22	1.2	79	170	2,700	6.4	NA	No sheen
	11/15/00		14.23	18.47	36	1.6	180	180	4,500	10	NA	No sheen
	02/27/01		12.66	20.04	33	1.6	160	220	2,800	110	NA	No sheen
	05/22/01		13.58	19.12	49	2.2	180	230	3,200	240	NA	No sheen
	09/05/01		14.05	18.65	28	1.0	100	100	2,400	560	NA	No sheen
	11/07/01		14.32	18.38	<2.0	<2.0	2.1	20	390	590	NA	No sheen
	02/11/02	35.09	13.31	21.78	19	<5.0	59	52	1,200	1,800	NA	No sheen
	06/03/02		13.55	21.54	44	<2.0	150	210	3,200	610	NA	No sheen
	08/06/02		14.10	20.99	42	<2.0	140	150	3,200	820	NA	No sheen
	11/14/02		14.03	21.06	29	1.3	94	100	2,900	560	100[c]	No sheen
	02/20/03		13.35	21.74	22	<1.0	81	77	2,900	270	170[c]	No sheen
	05/15/03		13.11	21.98	55	1.8	94	85	3,700	220	0.64[b], 170[c]	No sheen
	07/31/03		13.88	21.21	45	1.1	26	19	2,400	200	180[c]	No sheen
	10/28/03		14.41	20.68	6.8	<0.5	4.4	1.1	570	77	8.0[c]	No sheen
	02/28/04		12.89	22.20	37	1.4	130	120	3,400	72	32[c]	No sheen
	04/16/04		13.41	21.68	26	0.73	45	53	2,400	81	130[c]	No sheen
	07/16/04		13.92	21.17	24	0.85	36	20	2,100	71	46[c]	No sheen
	11/13/04		14.35	21.17	19	0.55	37	17	1,600	38	59[c]	No sheen
	02/04/05		13.48	21.61	40	1.40	120	80	4,500	32	43[c]	No sheen
	04/08/05		12.42	22.67	<0.5	<0.5	<0.5	<0.5	67	7.9	ND	No sheen
	08/10/05		13.36	21.73	<0.5	<0.5	<0.5	<0.5	<50	1.5	ND	No sheen
	11/05/05		13.96	21.13	<0.5	<0.5	2.2	1.5	110	<0.5	ND	No sheen
	01/13/06		12.53	22.56	<0.5	<0.5	1.2	<0.5	0.58	<0.5	ND	No sheen
	05/12/06		12.26	22.83	<0.5	<0.5	<0.5	<0.5	<50	0.54	28[e]	No sheen

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-6	03/12/98	30.40	10.49	19.91	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	05/28/98		10.58	19.82	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	08/31/98		10.85	19.55	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	11/19/98		10.88	19.52	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	03/15/99		10.83	19.57	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/07/99		11.01	19.39	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	09/07/99		11.89	18.51	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	12/13/99		12.09	18.31	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	03/08/00		10.02	20.38	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/12/00		11.07	19.33	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	11/15/00		12.34	18.06	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	02/27/01		10.75	19.65	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	05/22/01		11.55	18.85	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	09/05/01		12.10	18.30	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	11/07/01		12.31	18.09	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	02/11/02	32.74	11.05	21.69	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	06/03/02		11.70	21.40	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	08/06/02		12.28	20.46	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	11/14/02		12.46	20.28	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	02/20/03		11.26	21.48	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	05/15/03		11.85	20.89	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	07/31/03		11.73	21.01	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	10/28/03		12.38	20.36	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	02/28/04		11.88	20.86	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	04/16/04		11.85	20.89	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	07/16/04		12.84	19.90	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	11/13/04		12.13	19.90	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	02/04/05		11.14	21.60	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	04/08/05		10.94	21.80	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	08/10/05		11.42	21.32	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	11/05/05		11.90	20.84	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	01/13/06		10.70	22.04	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	05/12/06		10.63	22.11	<0.5	0.72	<0.5	<0.5	<50	<0.5	35[e]	No sheen

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-7	03/12/98	31.20	10.14	21.06	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	05/28/98		10.93	20.27	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	08/31/98		12.01	19.19	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	11/19/98		12.54	18.66	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	03/15/99		10.94	20.26	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/07/99		12.05	19.15	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	09/07/99		12.67	18.53	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	12/13/99		12.73	18.47	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	03/08/00		10.90	20.30	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/12/00		12.61	18.59	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	11/15/00		13.06	18.14	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	02/27/01		11.85	19.35	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	05/22/01		12.31	18.89	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	09/05/01		12.85	18.35	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	11/07/01		12.75	18.45	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	02/11/02	33.64	NM	NC	NS	NS	NS	NS	NS	NS	NS	
	06/03/02		12.58	21.06	<0.5	<0.5	<0.5	<0.5	<50	0.95	NA	No sheen
	08/06/02		12.93	20.71	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	11/14/02		13.04	20.60	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	02/20/03		12.75	20.89	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	05/15/03		12.45	21.19	<0.5	<0.5	<0.5	<0.5	<50	0.69	ND	No sheen
	07/31/03		12.80	20.84	<0.5	<0.5	<0.5	<0.5	<50	0.65	ND	No sheen
	10/28/03		NM	NC	NS	NS	NS	NS	NS	NS	NS	No sheen
	02/28/04		12.21	21.43	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	04/16/04		12.26	21.38	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	07/16/04		12.85	20.79	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	11/13/04		13.01	20.79	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	02/04/05		12.57	21.07	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	04/08/05		11.82	21.82	<0.5	<0.5	<0.5	<0.5	<50	0.78	ND	No sheen
	08/10/05		12.44	21.20	<0.5	<0.5	<0.5	<0.5	<50	0.61	ND	No sheen
	11/05/05		12.91	20.73	<0.5	<0.5	<0.5	<0.5	<50	0.76	ND	No sheen
	01/13/06		11.51	22.13	<0.5	<0.5	<0.5	<0.5	<50	0.61	ND	No sheen
	05/12/06		11.37	22.27	<0.5	0.59	<0.5	<0.5	<50	0.57	15[e]	No sheen

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-8	03/12/98	33.80	11.81	21.99	1.4	<0.5	<0.5	<0.5	72	<5.0	NA	No sheen
	05/28/98		12.14	21.66	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	08/31/98		13.16	20.64	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	11/19/98		14.56	19.24	510	24	1,200	2,800	14,000	<5.0	NA	No sheen
	03/15/99		12.40	21.40	160	16	910	2,100	14,000	<50	NA	No sheen
	06/07/99		14.06	19.74	330	14	470	880	7,800	<50	NA	No sheen
	09/07/99		14.01	19.79	150	2.6	260	370	3,200	<5.0	NA	No sheen
	12/13/99		14.91	18.89	35	<5.0	280	730	6,700	<50	NA	No sheen
	03/08/00		11.85	21.95	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/12/00		13.59	20.21	4.0	<0.5	4.9	2.1	140	<5.0	NA	No sheen
	11/15/00		14.94	18.86	2.0	<0.5	3.1	2.6	100	110	NA	No sheen
	02/27/01		NM	NC	NS	NS	NS	NS	NS	NS	NA	Tank Over Well
	05/22/01		NM	NC	NS	NS	NS	NS	NS	NS	NA	Tank Over Well
	09/05/01		14.68	19.12	160	<2.0	200	330	4,800	850	NA	No sheen
	11/07/01		15.10	18.70	1.1	<1.0	2.0	6.1	<100	590	NA	No sheen
	02/11/02	36.08	14.06	22.02	7.9	<5.0	16	22	<500	1,700	NA	No sheen
	06/03/02		14.25	21.83	20.0	<2.0	19	35	550	650	NA	No sheen
	08/06/02		14.55	21.53	220	<2.0	170	280	4,800	1,000	NA	No sheen
	11/14/02		14.73	21.35	250	<2.5	160	220	4,800	1,200	47[c]	No sheen
	02/20/03		13.81	22.27	17	<1.0	19	42	760	520	16[c]	No sheen
	05/15/03		13.68	22.40	14	<0.5	16	23	690	370	0.79[b], 10[c]	No sheen
	07/31/03		14.54	21.54	29	<1.0	15	18	700	380	36[c]	No sheen
	10/28/03		15.09	20.99	87	<1.0	34	40	2,000	490	130[c]	No sheen
	02/28/04		13.45	22.63	21	<0.5	15	49	1,100	200	110[c]	No sheen
	04/16/04		14.19	21.89	57	<0.5	52	75	2,900	300	140[c]	No sheen
	07/16/04		14.76	21.32	32	<0.5	34	51	2,000	92	67[c]	No sheen
	11/13/04		14.91	21.32	30	0.64	84	92	4,100	61	76[c]	No sheen
	02/04/05		14.09	21.99	27	<0.5	65	92	2,700	56	38[c]	No sheen
	04/08/05		13.11	22.97	1.1	<0.5	<0.5	<0.5	81	6.9	ND	No sheen
	08/10/05		14.20	21.88	14	<0.5	26	22	2,000	27	22[c]	No sheen
	11/05/05		14.79	21.29	9.7	<0.5	54	67	2,300	15	21[c]	No sheen
	01/13/06		13.24	22.84	<0.5	<0.5	<0.5	0.51	52	0.58	ND	No sheen
	05/12/06		12.97	23.11	<0.5	<0.5	<0.5	<0.5	<50	<0.5	90[d], 91[e]	No sheen

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-9	03/12/98	32.56	10.93	21.63	320	23	180	720	3,700	190	NA	No sheen
	05/28/98		11.31	21.25	110	6.4	87	300	2,200	220	NA	No sheen
	08/31/98		12.16	20.40	240	23	690	1,900	11,000	<50	NA	No sheen
	11/19/98		11.04	21.52	7.7	<0.5	10	22	280	67	NA	No sheen
	03/15/99		11.81	20.75	<0.5	<0.5	<0.5	1.2	<50	<5.0	NA	No sheen
	06/07/99		12.21	20.35	9.3	0.86	9.7	12	340	<5.0	NA	No sheen
	09/07/99		10.10	22.46	0.76	<0.5	1.9	0.8	72	9.9	NA	No sheen
	12/13/99		13.64	18.92	<0.5	<0.5	<0.5	<0.5	60	<5.0	NA	No sheen
	03/08/00		10.88	21.68	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/12/00		12.50	20.06	0.9	<0.5	2.7	1.3	640	10	NA	No sheen
	11/15/00		13.60	18.96	<0.5	<0.5	0.69	<0.5	200	12	NA	No sheen
	02/27/01		12.15	20.41	0.61	<0.5	2.2	1.2	360	42	NA	No sheen
	05/22/01		13.20	19.36	0.57	<0.5	2.1	0.61	330	290	NA	No sheen
	09/05/01		13.10	19.46	<2.0	<2.0	<2.0	<2.0	<200	1,100	NA	No sheen
	11/07/01		13.85	18.71	1.0	<1.0	<1.0	<1.0	230	510	NA	No sheen
	02/11/02	34.63	12.98	21.65	<0.5	<0.5	<0.5	<0.5	<50	41	NA	No sheen
	06/03/02		12.48	22.15	<0.5	<0.5	<0.5	<0.5	<50	55	NA	No sheen
	08/06/02		13.16	21.47	<0.5	<0.5	<0.5	<0.5	<50	65	NA	No sheen
	11/14/02		13.15	21.48	<0.5	<0..5	<0.5	<0.5	<50	47	ND	No sheen
	02/20/03		12.46	22.17	<0.5	<0.5	<0.5	<0.5	<50	28	ND	No sheen
	05/15/03		12.26	22.37	<0.5	<0.5	<0.5	<0.5	<50	8.9	ND	No sheen
	07/31/03		12.94	21.69	<0.5	<0.5	<0.5	<0.5	<50	0.85	ND	No sheen
	10/28/03		13.83	20.80	<0.5	<0.5	<0.5	<0.5	<50	0.76	ND	No sheen
	02/28/04		12.59	22.04	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	04/16/04		13.04	21.59	<0.5	<0.5	<0.5	<0.5	53	<0.5	ND	No sheen
	07/16/04		13.52	21.11	<0.5	<0.5	<0.5	<0.5	56	<0.5	ND	No sheen
	11/13/04		13.68	21.11	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	02/04/05		13.04	21.59	<0.5	<0.5	<0.5	<0.5	90	<0.5	ND	No sheen
	04/08/05		12.17	22.46	<0.5	<0.5	<0.5	<0.5	150	<0.5	ND	No sheen
	08/10/05		13.04	21.59	<0.5	<0.5	0.76	<0.5	260	<0.5	ND	No sheen
	11/05/05		13.55	21.08	<0.5	<0.5	<0.5	<0.5	150	<0.5	ND	No sheen
	01/13/06		12.30	22.33	<0.5	<0.5	0.78	<0.5	280	<0.5	ND	No sheen
	05/12/06		5.45	NC	NS	NS	NS	NS	NS	NS	NS	Well Blocked

a =Referenced to mean sea level.
b =tert-amyl methyl ether
c = tert-butanol
d = methanol
e = ethanol

TPH = Total petroleum hydrocarbons.
MTBE = Methyl tertiary butyl ether.
µg/L = Micrograms per liter.
Oxygenates = methyl-t-butyl ether, diisopropyl ether, ethyl-t-butyl ether, tert-amyl methyl ether, tert-butanol, 1,2-dichloroethane, 1,2-dibromoethane

TABLE 2

MNA MONITORING

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Monitoring Well	Date	pH	D.O. (ppm)	OPR	Specific Conductivity	Temperature	Dissolved CO_2	Ferrous Iron (Fe^{+2})	Total Alkalinity	Total Organic Carbon	Total Iron
MW-1	05/12/06	7.01	2.97	-23	277	18.3	41	0.6	120	11	1.36
MW-2	05/12/06	7.38	7.51	82	332	18.1	59	0.0	68	3.9	0.703
MW-3	05/12/06	6.84	2.21	-48	283	19.1	42	1.0	76	3.8	1.23
MW-4	05/12/06	7.59	9.65	40	534	19.8	3.9	0.0	190	2.4	95
MW-5	05/12/06	7.28	22.41	173	538	20.0	12	0.0	250	1.90	0.36
MW-6	05/12/06	7.02	4.30	53	1079	17.9	160	0.2	510	3.9	<0.1
MW-7	05/12/06	7.04	2.02	12	425	20.1	65	0.0	170	2.1	<0.1
MW-8	05/12/06	6.99	5.60	-13	846.0	18.9	87	0.0	290	2.90	<0.1
MW-9	05/12/06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

a =Referenced to mean sea level.
b =tert-amyl methyl ether
c = tert-butanol
d = methanol
e = ethanol

TPH = Total petroleum hydrocarbons.
MTBE = Methyl tertiary butyl ether.
µg/L = Micrograms per liter.
Oxygenates = methyl-t-butyl ether, diisopropyl ether, ethyl-t-butyl ether, tert-amyl methyl ether, tert-butanol, 1,2-dichloroethane, 1,2-dibromoethane

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	06/05/97	3.2	0.72	1.2	2.5	220	NA
Effluent	06/05/97	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	07/03/97	0.30	0.67	0.23	1.8	86	NA
Effluent	07/03/97	<0.05	0.054	<0.05	0.13	<5.0	NA
Influent	07/22/97	0.76	1.6	0.92	5.3	270	NA
Effluent	07/22/97	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/07/97	2.0	1.3	0.53	2.7	130	NA
Effluent	08/07/97	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	09/04/97	1.8	0.73	1.3	5.9	190	NA
Effluent	09/04/97	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	10/24/97	0.49	0.52	0.35	2.3	54	NA
Effluent	10/24/97	<0.05	<0.05	<0.05	0.057	<5.0	NA
Effluent	11/26/97	0.094	0.089	<0.05	0.062	5.3	NA
Influent	12/10/97	<0.05	0.44	0.076	0.37	5.8	NA
Effluent	12/10/97	<0.05	0.062	<0.05	<0.05	<5.0	NA
Influent	12/12/97	0.59	0.17	0.49	2.0	26	NA
Effluent	12/12/97	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/12/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/12/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	04/23/98	0.18	0.32	0.072	0.47	18	NA
Mid-Carbon	04/23/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	04/23/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	06/09/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	06/09/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	06/09/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	07/07/98	0.067	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	07/07/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	07/07/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	07/21/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/11/98	<0.05	0.06	<0.05	0.071	<5.0	NA
Mid-Carbon	08/11/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	08/11/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	09/10/98	0.16	0.46	0.062	0.20	16	NA
Mid-Carbon	09/10/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	09/10/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	09/23/98	0.16	0.32	<0.05	0.20	9.4	NA
Mid-Carbon	09/23/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	10/20/98	0.63	0.19	0.062	0.17	28	NA
Mid-Carbon	10/20/98	0.79	0.37	<0.05	0.088	48	NA
Effluent	10/20/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	11/26//97	0.13	0.43	0.072	0.35	9.2	NA
Influent	12/08/99	0.73	2.2	0.15	0.71	43	NA
Mid-Carbon	12/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/13/99	0.068	0.057	<0.05	0.095	6.5	NA
Mid-Carbon	01/13/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/13/99	<0.05	<0.05	<0.05	<0.05	5.4	NA
Effluent	01/28/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/10/99	1.1	1.2	0.071	0.28	56	NA
Mid-Carbon	02/10/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	02/10/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/10/99	0.070	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	03/10/99	0.069	<0.05	<0.05	<0.05	28	NA
Effluent	03/10/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	04/07/99	0.22	0.078	<0.05	0.060	17	NA
Influent	06/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	06/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	06/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	07/12/99	0.16	0.77	<0.05	0.18	11	NA
Mid-Carbon	07/12/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	07/12/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/09/99	0.092	1.0	0.20	0.94	12	NA
Mid-Carbon	08/09/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	08/09/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	09/07/99	0.069	0.41	0.07	0.38	16	NA
Mid-Carbon	09/07/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	09/07/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	10/12/99	0.96	8.6	1.1	4.7	150	NA
Mid-Carbon	10/12/99	<0.05	<0.05	<0.05	0.064	<5.0	NA
Effluent	10/12/99	<0.05	<0.05	<0.05	0.063	<5.0	NA
Influent	11/17/99	0.22	1.9	0.32	1.7	21	NA
Mid-Carbon	11/17/99	0.067	<0.05	<0.05	<0.05	<5.0	NA
Effluent	11/17/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/28/99	1.2	22	2.4	12	570	NA
Mid-Carbon	12/28/99	0.052	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/28/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/12/00	0.45	1.7	0.18	1.0	110	NA
Mid-Carbon	01/12/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/12/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/26/00	0.059	0.77	0.19	1.1	14	NA
Mid-Carbon	01/26/00	0.20	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/26/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/06/00	0.095	1.4	0.18	0.87	22	NA
Mid-Carbon	02/06/00	0.20	<0.05	<0.05	<0.05	<5.0	NA
Effluent	02/06/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/09/00	0.45	3.1	0.52	2.8	59	NA
Mid-Carbon	02/09/00	0.18	<0.05	<0.05	<0.05	<5.0	NA
Effluent	02/09/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/16/00	0.10	3.5	0.54	4.1	46	NA
Mid-Carbon	03/16/00	0.83	0.31	<0.05	<0.05	22	NA
Effluent	03/16/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	04/04/00	0.17	1.9	0.29	2.0	23	NA
Mid	04/04/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	04/04/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	05/12/00	<0.05	0.059	<0.05	0.091	<5.0	NA
Mid	05/12/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	05/12/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	06/19/00	<0.05	0.12	<0.05	<0.05	<5.0	NA
Mid	06/19/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	06/19/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	07/25/00	2.4	8.1	0.80	3.5	140	NA
Mid	07/25/00	<0.050	0.07	<0.050	<0.050	12	NA
Effluent	07/25/00	<0.05	<0.05	<0.05	<0.05	5.4	NA
Influent	07/25/00	2.4	8.1	0.80	3.5	140	NA
Mid	07/25/00	<0.050	0.07	<0.050	<0.050	12	NA
Effluent	07/25/00	<0.05	<0.05	<0.05	<0.05	5.4	NA
Influent	08/09/00	2.4	8.1	0.80	3.5	140	NA
Mid	08/09/00	<0.050	0.07	<0.050	<0.050	12	NA
Effluent	08/09/00	<0.05	<0.05	<0.05	<0.05	5.4	NA
Influent	09/06/00	2.4	8.1	0.80	3.5	140	NA
Mid	09/06/00	<0.050	0.07	<0.050	<0.050	12	NA
Effluent	09/06/00	<0.05	<0.05	<0.05	<0.05	5.4	NA
Influent	10/17/00	<0.05	0.075	<0.05	0.14	<5.0	NA
Mid	10/17/00	<0.050	0.07	<0.050	<0.050	<5.0	NA
Effluent	10/17/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	11/29/00	<0.05	0.24	0.08	0.29	<5.0	NA
Mid	11/29/00	<0.05	0.07	<0.05	0.18	<5.0	NA
Effluent	11/29/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/07/00	<0.05	0.13	<0.05	0.064	<5.0	NA
Mid	12/07/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/07/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/07/01	0.12	0.85	0.16	0.92	17	NA
Mid	01/07/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/07/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/23/01	0.19	1.6	0.19	1.1	32	NA
Mid	02/23/01	<0.05	0.07	<0.05	<0.05	<5.0	NA
Effluent	02/23/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/01/01	0.97	1.2	0.13	0.64	18	NA
Mid	03/01/01	<0.05	0.053	<0.05	<0.098	<5.0	NA
Effluent	03/01/01	<0.05	0.053	<0.05	0.13	<5.0	NA

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	10/17/2000	<0.05	0.075	<0.05	0.14	<5.0	NA
Mid-Carbon	10/17/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	10/17/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	11/29/2000	<0.05	0.24	0.08	0.29	<5.0	NA
Mid-Carbon	11/29/2000	<0.05	0.07	<0.05	0.18	<5.0	NA
Effluent	11/29/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/07/00	<0.05	0.13	<0.05	0.064	<5.0	NA
Mid-Carbon	12/07/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/07/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/07/01	0.12	0.85	0.16	0.92	17	NA
Mid-Carbon	01/07/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/07/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/23/01	0.19	1.6	0.19	1.1	32	NA
Mid-Carbon	02/23/01	<0.05	0.07	<0.05	<0.05	<5.0	NA
Effluent	02/23/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/01/01	0.97	1.2	0.13	0.64	18	NA
Mid-Carbon	03/01/01	<0.05	0.053	<0.05	0.098	<5.0	NA
Effluent	03/01/01	<0.05	0.11	<0.05	0.13	<5.0	NA
Influent	04/18/01	0.1	0.63	0.12	0.56	18	NA
Mid-Carbon	04/18/01	<0.05	<0.05	<0.05	0.078	<5.0	NA
Effluent	04/18/01	<0.05	<0.05	<0.05	0.11	<5.0	NA
Influent	05/21/01	0.088	1.0	0.31	1.5	20	NA
Mid-Carbon	05/21/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	05/21/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	06/05/01	0.15	1.5	0.36	1.6	24	NA
Mid-Carbon	06/05/01	<0.05	0.053	<0.05	0.098	9.1	NA
Effluent	06/05/01	<0.05	<0.05	<0.05	<0.05	5.6	NA
Influent	07/16/01	<0.05	0.11	<0.05	0.14	<5.0	NA
Mid-Carbon	07/16/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	07/16/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/24/01	0.15	1.1	0.16	0.71	19	NA
Mid-Carbon	08/24/01	<0.05	0.055	<0.05	<0.05	<5.0	NA
Effluent	08/24/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	09/06/01	0.28	1.8	0.38	1.6	37	NA
Mid-Carbon	09/06/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	09/06/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	11/23/01	0.11	0.17	<0.05	0.10	<5.0	NA
Mid-Carbon	11/23/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	11/23/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/13/01	O.076	0.16	<0.05	0.063	<5.0	NA
Mid-Carbon	12/13/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/13/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/29/02	<0.05	0.12	<0.05	0.067	<5.0	NA
Mid-Carbon	01/29/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/29/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/20/02	0.054	0.12	<0.05	<0.05	<5.0	NA
Mid-Carbon	03/20/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	03/20/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	04/18/02	<0.05	0.076	<0.05	0.092	<5.0	0.16
Mid-Carbon	04/18/02	<0.05	<0.05	<0.05	<0.05	<5.0	2.1
Effluent	04/18/02	<0.05	<0.05	<0.05	<0.05	<5.0	0.32
Influent	05/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	05/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	05/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	06/13/02	<0.05	0.07	<0.05	<0.05	<5.0	NA
Mid-Carbon	06/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	06/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	07/22/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	07/22/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	07/22/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	0.2
Mid-Carbon	08/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	0.94
Effluent	08/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	1.5
Influent	09/23/02	<0.05	0.19	<0.05	0.12	<5.0	1.2
Mid-Carbon	09/23/02	<0.05	<0.05	<0.05	<0.05	<5.0	1.9
Effluent	09/23/02	<0.05	<0.05	<0.05	<0.05	<5.0	2.0

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	10/21/02	<0.05	0.46	0.068	0.33	7.3	0.93
Mid-Carbon	10/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Effluent	10/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Influent	11/24/02	0.064	0.8	0.11	0.56	12	2.3
Mid-Carbon	11/24/02	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Effluent	11/24/02	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Influent	12/20/02	0.18	2.6	0.34	1.4	27	4.7
Mid-Carbon	12/20/02	<0.05	<0.05	<0.05	<0.05	<5.0	0.63
Effluent	12/20/02	<0.05	0.13	<0.05	0.052	<5.0	0.24
Influent	01/29/03	<0.05	0.11	<0.05	0.071	<5.0	NA
Mid-Carbon	01/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/20/03	<0.05	0.19	<0.05	0.17	<5.0	0.61
Mid-Carbon	02/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	02/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	03/20/03	<0.05	0.12	<0.05	0.11	<5.0	0.59
Mid-Carbon	03/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	03/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	04/22/03	<0.05	0.15	0.067	0.44	5.6	1.1
Mid-Carbon	04/22/03	<0.05	<0.05	<0.05	<0.05	<5.0	1.6
Effluent	04/22/03	<0.05	<0.05	<0.05	<0.05	<5.0	0.91
Influent	05/29/03	<0.05	0.094	<0.05	0.084	<5.0	0.96
Mid-Carbon	05/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	3.3
Effluent	05/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	0.85
Influent	06/10/03	<0.05	<0.05	<0.05	<0.05	<5.0	2.2
Mid-Carbon	06/10/03	<0.05	<0.05	<0.05	<0.05	<5.0	0.55
Effluent	06/10/03	<0.05	<0.05	<0.05	<0.05	<5.0	0.50
Influent	07/21/03	<0.05	0.077	<0.05	<0.05	<5.0	3.2
Mid-Carbon	07/21/03	0.064	<0.05	<0.05	<0.05	<5.0	1.2
Effluent	07/21/03	<0.05	<0.05	<0.05	<0.05	<5.0	2.0
Influent	08/20/03	0.18	1.0	0.095	0.58	23	2.3
Mid-Carbon	08/20/03	0.058	<0.05	<0.05	<0.05	<5.0	1.9
Effluent	08/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	11/26/03	0.86	9.5	1.2	5.4	210	4.9
Mid-Carbon	11/26/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	11/26/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	12/29/03	0.21	4.1	0.68	4.1	69	<0.05
Mid-Carbon	12/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	12/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	01/28/04	0.13	1.7	0.31	1.4	29	<0.10
Mid-Carbon	01/28/04	<0.05	0.078	<0.05	0.36	<5.0	<0.10
Effluent	01/28/04	<0.05	0.092	0.061	0.49	<5.0	<0.10
Influent	02/29/04	0.12	0.91	0.29	2.0	24	<0.10
Mid-Carbon	02/29/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	02/29/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	03/15/04	0.13	0.72	0.15	0.88	15	<0.05
Mid-Carbon	03/15/04	<0.05	<0.05	<0.05	0.056	<5.0	<0.05
Effluent	03/15/04	<0.05	<0.05	<0.05	0.38	<5.0	<0.05
Influent	05/26/04	0.13	0.88	0.24	1.3	19	<0.05
Mid-Carbon	05/26/04	<0.05	<0.05	<0.05	0.15	<5.0	<0.05
Effluent	05/26/04	<0.05	0.07	0.066	0.51	7.2	<0.05
Influent	06/30/04	0.15	0.83	0.30	1.7	33	<0.05
Mid-Carbon	06/30/04	<0.05	<0.05	<0.05	<0.05	16	<0.05
Effluent	06/30/04	<0.05	<0.05	<0.05	<0.05	5.2	<0.05
Influent	08/30/04	<0.05	0.05	<0.05	0.14	<5.0	<0.05
Mid-Carbon	08/30/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	08/30/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	09/19/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	09/19/04	<0.05	<0.05	<0.05	<0.05	6.2*	<0.05
Effluent	09/19/04	<0.05	<0.05	<0.05	<0.05	5.6*	<0.05
Influent	10/28/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	10/28/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	10/28/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	11/23/04	<0.05	0.056	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	11/23/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	11/23/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	12/26/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	12/26/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	12/26/04	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	01/26/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	01/26/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	01/26/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05

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SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	02/27/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	02/27/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	02/27/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	03/24/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	03/24/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	03/24/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	04/26/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	04/26/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	04/26/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	05/30/05	<0.05	0.08	0.086	0.68	14	0.06
Mid-Carbon	05/30/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	05/30/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	06/28/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	06/28/05	<0.05	<0.05	<0.05	<0.05	32*	<0.05
Effluent	06/28/05	<0.05	<0.05	<0.05	<0.05	26*	<0.05
Influent	07/28/05	<0.05	<0.05	<0.05	<0.05	58*	<0.05
Mid-Carbon	07/28/05	<0.05	<0.05	<0.05	<0.05	36*	<0.05
Effluent	07/28/05	<0.05	<0.05	<0.05	<0.05	70*	<0.05
Influent	08/24/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	08/24/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	08/24/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	09/29/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	09/29/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	09/29/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	10/26/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	10/26/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	10/26/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	11/27/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	11/27/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	11/27/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	12/27/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	12/27/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	12/27/05	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	01/29/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	01/29/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	01/29/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	02/27/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	02/27/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	02/27/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	03/27/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid-Carbon	03/27/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	03/27/06	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05

TPH = Total petroleum hydrocarbons.
MTBE = methyl -t-butyl ether
mg/L = Micrograms per liter.
ppmv = parts per million by volume.
* = It was determined the tedlar bag manufacturer had produced and shipped contaminated bags.

TABLE 4
SVE SYSTEM THROUGHPUT CALCULATIONS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Date	Influent Flow Rate (ft^3/min)	Effluent Flow Rate (ft^3/min)	TPH Influent (ppmv)	TPH Effluent (ppmv)	Benzene Influent (ppmv)	Benzene Effluent (ppmv)	TPH Removal (%)	Benzene Removal (%)	TPH Extraction Rate (lbs/day)	TPH Mass Emission (lbs/day)	Benzene Extraction Rate (lbs/day)	Benzene Emission Rate (lbs/day)	FID or LAB	**Cumulative TPH Extraction (lbs)**	Cumulative TPH Extraction (gallons)	Total Hours	Change in hours of operation
08/18/98	---	---	---	---	---	---	---	---	---	---	---	---	---	**1,715**	---	---	---
09/10/98	98	98	16	<5.0	0.16	<0.05	NC	NC	0.50	< 0.16	0.005	< 0.002	LAB	**1,721**	282	2,587	552
09/23/98	98	98	9.4	<5.0	0.16	<0.05	NC	NC	0.29	< 0.16	0.005	< 0.002	LAB	**1,726**	283	2,907	320
10/20/98	59	59	28	<5.0	0.63	<0.05	NC	NC	0.53	< 0.09	0.012	< 0.001	LAB	**1,727**	283	2,962	55
12/08/98	49	49	43	<5.0	0.73	<0.05	NC	NC	0.67	< 0.08	0.011	< 0.001	LAB	**1,727**	283	3,803	0*
01/13/99	49	49	6.5	5.4	0.068	<0.05	16.9	NC	0.10	0.08	0.001	< 0.001	LAB	**1,738**	285	4,495	692
02/10/99	44	44	56	<5.0	1.1	<0.05	NC	NC	0.79	< 0.07	0.016	< 0.001	LAB	**1,738**	285	4,496	1
03/10/99	15	15	<5.0	<5.0	0.07	<0.05	NC	NC	< 0.02	< 0.02	0.001	< 0.001	LAB	**1,750**	287	5,172	676
06/08/99	35	35	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.06	< 0.06	< 0.001	< 0.001	LAB	**1,750**	287	5,173	1
07/12/99	39	39	11	<5.0	0.16	<0.05	NC	NC	0.14	< 0.06	0.002	< 0.001	LAB	**1,753**	287	5,982	809
08/04/99	39	39	12	<5.0	0.092	<0.05	NC	NC	0.15	< 0.06	0.001	< 0.001	LAB	**1,756**	288	6,534	552
09/07/99	39	39	16	<5.0	0.069	<0.05	NC	NC	0.20	< 0.06	0.001	< 0.001	LAB	**1,762**	289	7,351	817
10/12/99	54	54	150	<5.0	0.96	<0.05	NC	NC	2.59	< 0.09	0.015	< 0.001	LAB	**1,772**	290	7,998	167**
11/17/99	49	49	21	<5.0	0.22	<0.05	NC	NC	0.33	< 0.08	0.003	< 0.001	LAB	**1,825**	299	8,866	868
12/28/00	49	49	570	<5.0	1.2	<0.05	NC	NC	8.96	< 0.08	0.017	< 0.001	LAB	**1,825**	299	8,867	1
01/12/00	79	79	110	<5.0	0.45	<0.05	NC	NC	2.77	< 0.13	0.010	< 0.001	LAB	**1,907**	313	9,202	335
01/26/00	79	79	14	<5.0	0.059	<0.05	NC	NC	0.35	< 0.13	0.001	< 0.001	LAB	**1,929**	316	9,540	338
02/09/00	79	79	59	<5.0	0.45	<0.05	NC	NC	1.48	< 0.13	0.010	< 0.001	LAB	**1,933**	317	9,662	122
03/16/00	79	79	46	<5.0	0.1	<0.05	NC	NC	1.16	< 0.13	0.002	< 0.001	LAB	**1,981**	325	10,525	863
04/04/00	41	41	23	<5.0	0.17	<0.05	NC	NC	0.30	< 0.07	0.002	< 0.001	LAB	**1,981**	325	10,526	2
05/12/00	41	41	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.07	< 0.07	< 0.001	< 0.001	LAB	**1,986**	326	11,164	638
06/19/00	41	41	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.07	< 0.07	< 0.001	< 0.001	LAB	**1,988**	326	12,071	907
07/11/00	41	41	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.07	< 0.07	< 0.001	< 0.001	LAB	**1,990**	326	12,601	530
07/25/00	41	41	140	< 5.4	2.4	<0.05	96.1	NC	1.85	0.07	0.029	< 0.001	LAB	**2,003**	328	12,937	336
08/09/00	41	41	2200	<5.0	25	<0.05	NC	NC	29.05	< 0.07	0.299	< 0.001	LAB	**2,004**	329	12,938	1
09/06/00	41	41	6.8	<5.0	<0.05	<0.05	NC	NC	0.09	< 0.07	< 0.001	< 0.001	LAB	**2,409**	395	13,606	668

TABLE 4
SVE SYSTEM THROUGHPUT CALCULATIONS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Date	Influent Flow Rate (ft^3/min)	Effluent Flow Rate (ft^3/min)	TPH Influent (ppmv)	TPH Effluent (ppmv)	Benzene Influent (ppmv)	Benzene Effluent (ppmv)	TPH Removal (%)	Benzene Removal (%)	TPH Extraction Rate (lbs/day)	TPH Mass Emission (lbs/day)	Benzene Extraction Rate (lbs/day)	Benzene Emission Rate (lbs/day)	FID or LAB	**Cumulative TPH Extraction (lbs)**	Cumulative TPH Extraction (gallons)	Total Hours	Change in hours of operation
10/17/00	40	40	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.06	< 0.06	< 0.001	< 0.001	LAB	**2,411**	395	14,054	448
11/29/00	40	40	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.06	< 0.06	< 0.001	< 0.001	LAB	**2,414**	396	15,062	1,008
12/07/00	40	40	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.06	< 0.06	< 0.001	< 0.001	LAB	**2,414**	396	15,328	266
01/19/01	87	87	17.0	<5.0	0.12	<0.05	NC	NC	0.47	< 0.14	0.003	< 0.001	LAB	**2,425**	397	16,259	931
02/23/01	67	67	32.0	<5.0	0.19	<0.05	NC	NC	0.69	< 0.11	0.004	< 0.001	LAB	**2,445**	401	17,096	837
03/01/01	60	60	18.0	<5.0	0.097	<0.05	NC	NC	0.35	< 0.10	0.002	< 0.001	LAB	**2,448**	401	17,247	151
04/18/01	62	62	18.0	<5.0	0.1	<0.05	NC	NC	0.36	< 0.10	0.002	< 0.001	LAB	**2,465**	404	18,396	1,149
05/21/01	65	65	20.0	<5.0	0.088	<0.05	NC	NC	0.42	< 0.10	0.002	< 0.001	LAB	**2,477**	406	19,160	764
06/05/01	78	78	24.0	<5.0	0.15	<0.05	NC	NC	0.60	< 0.12	0.003	< 0.001	LAB	**2,485**	407	19,514	354
07/16/01	40	40	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.06	< 0.06	< 0.001	< 0.001	LAB	**2,494**	409	20,157	643
08/24/01	45	45	19.0	<5.0	0.15	<0.05	NC	NC	0.27	< 0.07	0.002	< 0.001	LAB	**2,500**	410	21,098	941
09/06/01	50	50	37.0	<5.0	0.28	<0.05	NC	NC	0.59	< 0.08	0.004	< 0.001	LAB	**2,506**	411	21,406	308
11/23/01	60	60	<5.0	<5.0	0.11	<0.05	NC	NC	< 0.10	< 0.10	0.002	< 0.001	LAB	**2,518**	413	22,246	840
12/13/01	65	65	<5.0	<5.0	0.076	<0.05	NC	NC	< 0.10	< 0.10	0.001	< 0.001	LAB	**2,520**	413	22,728	482
01/29/02	62	62	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,525**	414	23,850	1,122
03/20/02	65	65	<5.0	<5.0	0.054	<0.05	NC	NC	< 0.10	< 0.10	0.001	< 0.001	LAB	**2,530**	415	25,054	1,204
04/18/02	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,533**	415	25,743	689
05/13/02	64	65	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,535**	416	26,358	615
06/13/02	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,538**	416	27,071	713
07/22/02	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.11	< 0.11	< 0.001	< 0.001	LAB	**2,543**	417	28,027	956
08/21/02	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.11	< 0.11	< 0.001	< 0.001	LAB	**2,546**	417	28,750	722
09/23/02	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,549**	418	29,536	787
10/21/02	69	69	7.3	<5.0	<0.05	<0.05	NC	NC	0.16	< 0.11	< 0.001	< 0.001	LAB	**2,553**	419	30,212	676
11/24/02	70	70	12.0	<5.0	0.064	<0.05	NC	NC	0.27	< 0.11	0.001	< 0.001	LAB	**2,560**	420	31,024	812
12/20/02	62	62	27.0	<5.0	0.18	<0.05	NC	NC	0.54	< 0.10	0.003	< 0.001	LAB	**2,571**	421	31,654	630
01/29/03	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,584**	424	32,613	959
02/20/03	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.11	< 0.11	< 0.001	< 0.001	LAB	**2,586**	424	33,138	525
03/20/03	62	62	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,587**	424	33,426	288
04/22/03	65	65	5.6	<5.0	<0.05	<0.05	NC	NC	0.12	< 0.10	< 0.001	< 0.001	LAB	**2,593**	425	34,600	1,175

TABLE 4
SVE SYSTEM THROUGHPUT CALCULATIONS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Date	Influent Flow Rate (ft^3/min)	Effluent Flow Rate (ft^3/min)	TPH Influent (ppmv)	TPH Effluent (ppmv)	Benzene Influent (ppmv)	Benzene Effluent (ppmv)	TPH Removal (%)	Benzene Removal (%)	TPH Extraction Rate (lbs/day)	TPH Mass Emission (lbs/day)	Benzene Extraction Rate (lbs/day)	Benzene Emission Rate (lbs/day)	FID or LAB	**Cumulative TPH Extraction (lbs)**	Cumulative TPH Extraction (gallons)	Total Hours	Change in hours of operation
05/29/03	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,597**	426	35,480	880
06/10/03	64	64	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,598**	426	35,776	296
07/21/03	62	62	<5.0	<5.0	<0.05	<0.05	NC	NC	< 0.10	< 0.10	< 0.001	< 0.001	LAB	**2,602**	427	36,760	984
08/20/03	61	61	23.0	<5.0	0.18	<0.05	NC	NC	0.45	< 0.10	0.003	< 0.001	LAB	**2,610**	428	37,485	726
11/26/03	82	82	210.0	<5.0	0.86	<0.05	NC	NC	5.51	< 0.13	0.020	< 0.001	LAB	**2,664**	437	37,916	431
12/29/03	118	118	69.0	<5.0	0.21	<0.05	NC	NC	2.61	< 0.19	0.007	< 0.002	LAB	**2,802**	459	38,732	816
01/28/04	120	120	29.0	<5.0	0.13	<0.05	NC	NC	1.11	< 0.19	0.005	< 0.002	LAB	**2,858**	469	39,452	720
02/29/04	119	119	24.0	<5.0	0.12	<0.05	NC	NC	0.91	< 0.19	0.004	< 0.002	LAB	**2,890**	474	40,220	768
03/15/04	121	121	15.0	<5.0	0.13	<0.05	NC	NC	0.58	< 0.19	0.005	< 0.002	LAB	**2,902**	476	40,580	360
05/26/04	75	75	19.0	<5.0	0.13	<0.05	NC	NC	0.46	< 0.12	0.003	< 0.001	LAB	**2,925**	479	41,660	1,080
06/30/04	85	85	33.0	<5.0	0.15	<0.05	NC	NC	0.90	< 0.14	0.004	< 0.001	LAB	**2,949**	483	42,500	840
08/30/04	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	0.11	< 0.11	0.001	< 0.001	LAB	**2,971**	487	43,580	1,080
09/19/04	72	72	<5.0	<5.0	<0.05	<0.05	NC	NC	0.12	< 0.12	0.001	< 0.001	LAB	**2,973**	487	44,060	480
10/28/04	71	71	<5.0	<5.0	<0.05	<0.05	NC	NC	0.11	< 0.11	0.001	< 0.001	LAB	**2,978**	488	44,996	936
11/23/04	80	80	<5.0	<5.0	<0.05	<0.05	NC	NC	0.13	< 0.13	0.001	< 0.001	LAB	**2,981**	489	45,620	624
12/26/04	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	0.11	< 0.11	0.001	< 0.001	LAB	**2,985**	489	46,412	792
01/26/05	78	78	<5.0	<5.0	<0.05	<0.05	NC	NC	0.12	< 0.12	0.001	< 0.001	LAB	**2,989**	490	47,154	742
02/27/05	69	69	<5.0	<5.0	<0.05	<0.05	NC	NC	0.11	< 0.11	0.001	< 0.001	LAB	**2,992**	491	47,922	768
03/24/05	75	75	<5.0	<5.0	<0.05	<0.05	NC	NC	0.12	< 0.12	0.001	< 0.001	LAB	**2,995**	491	48,525	603
04/26/05	80	80	<5.0	<5.0	<0.05	<0.05	NC	NC	0.13	< 0.13	0.001	< 0.001	LAB	**3,000**	492	49,341	816
05/30/05	75	75	14.0	<5.0	<0.05	<0.05	NC	NC	0.34	< 0.12	0.001	< 0.001	LAB	**3,008**	493	50,181	840
06/28/05	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	0.10	< 0.10	0.001	< 0.001	LAB	**3,014**	494	50,901	720
07/28/05	70	70	58.0	<5.0	<0.05	<0.05	NC	NC	1.30	< 0.11	0.001	< 0.001	LAB	**3,035**	498	51,623	722
08/24/05	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	0.11	< 0.11	0.001	< 0.001	LAB	**3,055**	501	52,276	653
09/29/05	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	0.10	< 0.10	0.001	< 0.001	LAB	**3,058**	501	53,140	864
10/26/05	88	88	<5.0	<5.0	<0.05	<0.05	NC	NC	0.14	< 0.14	0.001	< 0.001	LAB	**3,062**	502	53,819	679
11/27/05	72	72	<5.0	<5.0	<0.05	<0.05	NC	NC	0.12	< 0.12	0.001	< 0.001	LAB	**3,066**	503	54,590	771
12/27/05	82	82	<5.0	<5.0	<0.05	<0.05	NC	NC	0.13	< 0.13	0.001	< 0.001	LAB	**3,070**	503	55,308	718
01/29/06	75	75	<5.0	<5.0	<0.05	<0.05	NC	NC	0.12	< 0.12	0.001	< 0.001	LAB	**3,074**	504	56,097	789
02/27/06	65	65	<5.0	<5.0	<0.05	<0.05	NC	NC	0.10	< 0.10	0.001	< 0.001	LAB	**3,077**	504	56,794	697
03/27/06	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	0.11	< 0.11	0.001	< 0.001	LAB	**3,080**	505	57,468	674

TABLE 4
SVE SYSTEM THROUGHPUT CALCULATIONS

Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Date	Influent Flow Rate (ft^3/min)	Effluent Flow Rate (ft^3/min)	TPH Influent (ppmv)	TPH Effluent (ppmv)	Benzene Influent (ppmv)	Benzene Effluent (ppmv)	TPH Removal (%)	Benzene Removal (%)	TPH Extraction Rate (lbs/day)	TPH Mass Emission (lbs/day)	Benzene Extraction Rate (lbs/day)	Benzene Emission Rate (lbs/day)	FID or LAB	**Cumulative TPH Extraction (lbs)**	Cumulative TPH Extraction (gallons)	Total Hours	Change in hours of operation
04/25/06	68	68	<5.0	<5.0	<0.05	<0.05	NC	NC	0.11	< 0.11	0.001	< 0.001	LAB	**3,083**	505	58,163	695

* The system was running on ambient air, thus change in hours are zero.
** The system was running on ambient air from 9/22/99 to 10/12/99, the change in hours only represents time the system was extracting soil vapor.
NC = Not Calculated

TABLE 5
Water Well Search Survey Data

Tesoro Station 67106
1088 Marina Boulevard,
San Leandro, California

Map Location	Owner	Owners Address	Location of Well	DWR Well ID	Driller	TD/CD (ft. bsg.)	Perf. Interval (ft.bsg.)	Casing Dia./Type/Depth	Seal/Depth (ft. bsg)	DTW (ft. bsg.)	Proposed Use	Date Installed	Status	Location Verified
1	Unocal	NR	Corner of Alvarado and Marina	2S3W35G3 (No. 011350)	NR	40	14'-40'	2"/PVC/40'	0-12'	20'	Monitoring	1988	Destroyed	located
2	NR	846 Marina Boulevard	846 Marina Boulevard	2S3W35G (No. 01451A)	Woodward Clyde	20	5'-20'	2"/PVC/20'	0-4'	13'	Monitoring	6/11/1905	Destroyed	located
3	Doral's Repair	2151 Wayne Avenue	2151 Wayne Avenue	2S3W35D7 (No. 01420Z)	Crosby & Overton	35	15'-35'	2"/PVCl/35'	0-10'	25	Monitoring	3/3/1989	Destroyed	located
4	GMC	1444 Marina Boulevard	1444 Marina Boulevard	2S3W35L (No.01452A)	Spectrum Drilling	40"	10'-40'	2"/ PVC/40'	0-8'	20'	Monitoring	12/6/1989	Destroyed	located
5	Safeway Stores	210 Fourth Street, Oakland CA	1111 Marina Boulevard	2S3W35L11 (No. 303292)	Baseline	19.5	13'-19.5'	2"/PVC/19.5'	0-11'	15.92'	Monitoring	5/16/1990	Destroyed	located
6	Safeway Stores	210 Fourth Street, Oakland CA	1111 Marina Boulevard	2S3W35L12 (No. 303293)	Baseline	19.5	13'-19.5'	2"/PVC/19.5'	0-11'	15.66'	Monitoring	5/16/1990	Destroyed	located
7	Safeway Stores	210 Fourth Street, Oakland CA	1111 Marina Boulevard	2S3W35L13 (No. 303294)	Baseline	19.5	13'-19.5'	2"/PVC/19.5'	0-11'	15.06'	Monitoring	5/16/1990	Destroyed	located
8	Peterson Tractor	955 Marina Boulevard	955 Marina Boulevard	2S3W35K8 (No, 315844B)	ENSCO ENV.	29.5'	19.5 - 29.5'	2"/PVC/29.5'	0'-17'	21.89'	Monitoring	10/17/1989	Destroyed	located
9	Diesel Recon Company	5765 Summer Tree Drive, Memphis, TN	2100 Orchard Ave	2S3W35G10 (No, 316538)	Gregg Drilling	29'	14-29'	2"/PVC/29'	12'	19.5'	Monitoring	7/11/1991	Destroyed	located
10	Diesel Recon Company	5765 Summer Tree Drive, Memphis, TN	2100 Orchard Ave	2S3W35G11 (No, 316539)	Gregg Drilling	29'	14-29'	2"/PVC/29'	12'	19'	Monitoring	7/11/1991	Destroyed	located

TABLE 5
Water Well Search Survey Data

Tesoro Station 67106
1088 Marina Boulevard,
San Leandro, California

Map Location	Owner	Owners Address	Location of Well	DWR Well ID	Driller	TD/CD (ft. bsg.)	Perf. Interval (ft.bsg.)	Casing Dia./Type/Depth	Seal/Depth (ft. bsg)	DTW (ft. bsg.)	Proposed Use	Date Installed	Status	Location Verified
11	Diesel Recon Company	5765 Summer Tree Drive, Memphis, TN	2100 Orchard Ave	2S3W35G9 (No, 316544)	Gregg Drilling	29'	14-29'	2"/PVC/29'	12'	19'	Monitoring	8/20/1991	Destroyed	located
12	San Leandro Unified School District	451 West Joaquin Ave, San Leandro, CA	1201 Marina Boulevard	2S3W35G9 (No, 316544)	DeLucchi Drilling	272'	40-64', 84-108', 248-272'	10"?Steel/272'	0-40'	15'	Domestic	9/6/1978	Active	located
13	Coast Casting Rebuilders	2100 Orchard Ave	2100 Orchard Ave	2S3W35F1 (No, 33259)	AAA Drilling	80'	20-80'	6"/steel/80'	0-20'	21'	Domestic	6/23/1977	Active	located
14	GMC	1444 Marina Boulevard	1444 Marina Boulevard	2S3W35L17 (No.383510)	Science Drilling	24'	14'-24'	2"/ PVC/24'	0-13'	18	Monitoring	1/22/1991	Destroyed	located
15	GMC	1444 Marina Boulevard	1444 Marina Boulevard	2S3W35L18 (No.383511)	Science Drilling	24'	14'-24'	2"/ PVC/24'	0-13'	18	Monitoring	1/22/1991	Destroyed	located
16	GMC	1444 Marina Boulevard	1444 Marina Boulevard	2S3W35L19 (No.383512)	Science Drilling	24'	14'-24'	2"/ PVC/24'	0-13'	19	Monitoring	1/22/1991	Destroyed	located
17	GMC	1444 Marina Boulevard	1444 Marina Boulevard	2S3W35L20 (No.383513)	Science Drilling	24'	14'-24'	2"/ PVC/24'	0-13'	20.5'	Monitoring	1/16/1991	Destroyed	located
18	Safeway Stores	210 Fourth Street, Oakland CA	1111 Marina Boulevard	2S3W35L22 (No. 427176)	Baseline	19.5	13'-19'	2"/PVC/19'	0-11'	18.62'	Monitoring	2/27/1992	Destroyed	located
19	Safeway Stores	210 Fourth Street, Oakland CA	1111 Marina Boulevard	2S3W35L21M (No. 427175)	Baseline	19	13'-19'	2"/PVC/19'	0-11'	18.84'	Monitoring	2/27/1992	Destroyed	located
20	Peterson Tractor	955 Marina Boulevard	955 Marina Boulevard	2S3W35L9 (No, 315811)	ENSCO ENV.	29.5'	17.5 - 29.5'	2"/PVC/29.5'	0'-14'	21.37	Monitoring	7/19/1989	Destroyed	located

TABLE 5
Water Well Search Survey Data

Tesoro Station 67106
1088 Marina Boulevard,
San Leandro, California

Map Location	Owner	Owners Address	Location of Well	DWR Well ID	Driller	TD/CD (ft. bsg.)	Perf. Interval (ft.bsg.)	Casing Dia./Type/Depth	Seal/Depth (ft. bsg)	DTW (ft. bsg.)	Proposed Use	Date Installed	Status	Location Verified
21	Diesel Recon Company	5765 Summer Tree Drive, Memphis, TN	2100 Orchard Ave	2S3W35G12 (No, NR)	Gregg Drilling	29'	14-29'	2"/PVC/29'	12'	19'	Monitoring	9/1/1992	Destroyed	located
22	A. Cook	2006 Pacific Avenue	2006 Pacific Avenue	2S3W35K	NR	NR	NR	NR	NR	NR	Irrigation	7/30/1984	Unknown	located
23	NR	2007 Orchard Avenue	2007 Orchard Avenue	NR	NR	NR	NR	Dia. 6"	NR	NR	Irrigation	NR	Active	located
24	NR	840 Harlan Street	840 Harlan Street	NR	NR	NR	NR	Dia. 6"	NR	NR	Irrigation	NR	Active	located
25	NR	939 Harlan Street	939 Harlan Street	NR	NR	NR	NR	Dia. 6"	NR	NR	Irrigation	NR	Active	located
26	NR	2024 Pacific Ave	2024 Pacific Ave	NR	NR	NR	NR	NR	NR	NR	Irrigation	NR	Unknown	located
27	NR	2027 Pacific Ave	2027 Pacific Ave	NR	NR	NR	NR	NR	NR	NR	Irrigation	NR	Unknown	located
28	NR	2098 Pacific Ave	2098 Pacific Ave	NR	NR	NR	NR	NR	NR	NR	Irrigation	NR	Unknown	located
29	NR	1918 Eveleth Ave	1918 Eveleth Ave	NR	NR	NR	NR	NR	NR	NR	Irrigation	NR	Unknown	located
30	NR	1923 Eveleth Ave	1923 Eveleth Ave	NR	NR	NR	NR	NR	NR	NR	Irrigation	NR	Unknown	located

TABLE 5
Water Well Search Survey Data

Tesoro Station 67106
1088 Marina Boulevard,
San Leandro, California

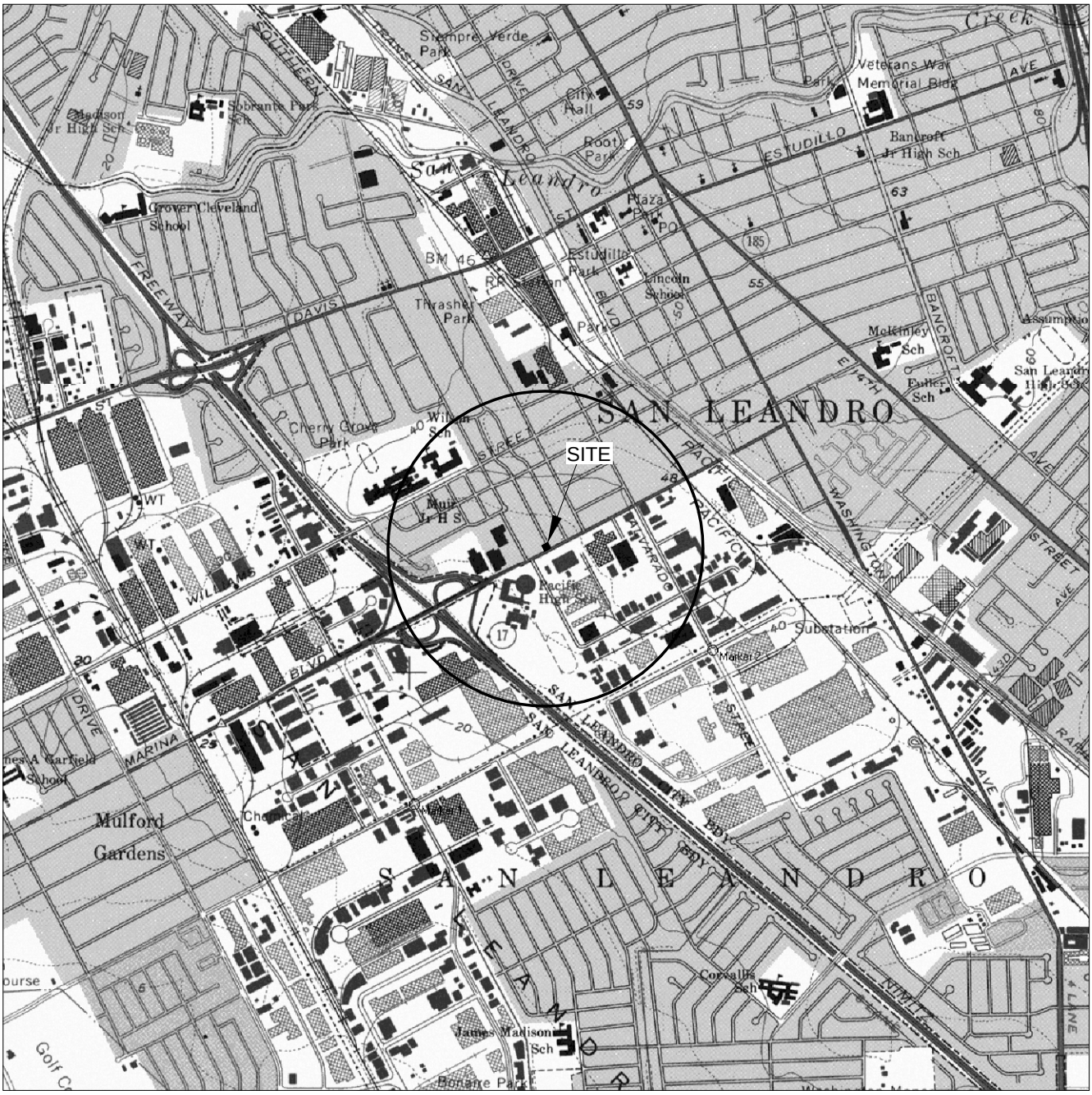
Map Location	Owner	Owners Address	Location of Well	DWR Well ID	Driller	TD/CD (ft. bsg.)	Perf. Interval (ft.bsg.)	Casing Dia./Type/Depth	Seal/Depth (ft. bsg)	DTW (ft. bsg.)	Proposed Use	Date Installed	Status	Location Verified
31	NR	1932 Eveleth Ave	1932 Eveleth Ave	NR	NR	NR	NR	NR	NR	NR	Irrigation	NR	Unknown	located
32	NR	2021 Eveleth Ave	2021 Eveleth Ave	NR	NR	NR	NR	NR	NR	NR	Irrigation	NR	Unknown	located
33	NR	2035 Eveleth Ave	2035 Eveleth Ave	NR	NR	NR	NR	NR	NR	NR	Irrigation	NR	Unknown	located
34	NR	2047 Eveleth Ave	2047 Eveleth Ave	NR	NR	NR	NR	NR	NR	NR	Irrigation	NR	Non-Active	located
35	NR	2120 Eveleth Ave	2120 Eveleth Ave	NR	NR	NR	NR	NR	NR	NR	Irrigation	NR	Unknown	located
36	NR	2123 Eveleth Ave	2123 Eveleth Ave	NR	NR	NR	NR	Dia. 6"/ Depth 29'	NR	NR	Irrigation	NR	Non-Active	located
37	NR	1147 Castro Street	1147 Castro Street	NR	NR	NR	NR	NR	NR	NR	Irrigation	NR	Non-Active	located
38	NR	1946 Wayne Avenue	1946 Wayne Avenue	NR	NR	NR	NR	NR	NR	NR	Irrigation	NR	Non-Active	located
39	NR	1990 Wayne Avenue	1990 Wayne Avenue	NR	NR	NR	NR	NR	NR	NR	Irrigation	NR	Non-Active	located
40	NR	1236 Linton Street	1236 Linton Street	NR	NR	NR	NR	NR	NR	NR	Irrigation	NR	Non-Active	located

TABLE 5
Water Well Search Survey Data

Tesoro Station 67106
1088 Marina Boulevard,
San Leandro, California

Map Location	Owner	Owners Address	Location of Well	DWR Well ID	Driller	TD/CD (ft. bsg.)	Perf. Interval (ft.bsg.)	Casing Dia./Type/Depth	Seal/Depth (ft. bsg)	DTW (ft. bsg.)	Proposed Use	Date Installed	Status	Location Verified
41	NR	1927 Orchard Avenue	1927 Orchard Avenue	NR	NR	NR	NR	NR	NR	NR	Irrigation	NR	Active	located
42	NR	1936 Orchard Avenue	1936 Orchard Avenue	NR	NR	NR	NR	Dia. 6"/ Depth 42'	NR	NR	Irrigation	NR	Active	located
43	NR	2005 Orchard Avenue	2005 Orchard Avenue	NR	NR	NR	NR	Dia. 6"	NR	NR	Irrigation	NR	Active	located
44	NR	2063 Orchard Avenue	2063 Orchard Avenue	NR	NR	NR	NR	Dia. 6"/ Depth 26'	NR	NR	Irrigation	NR	Active	located

PVC = Polyvinyl Chloride
NR = Not Reported
Galv. = Galvanized
ss= stainless steel casing



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
SAN LEANDRO, CA
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1980

QUADRANGLE LOCATION

SCALE 1:24,000

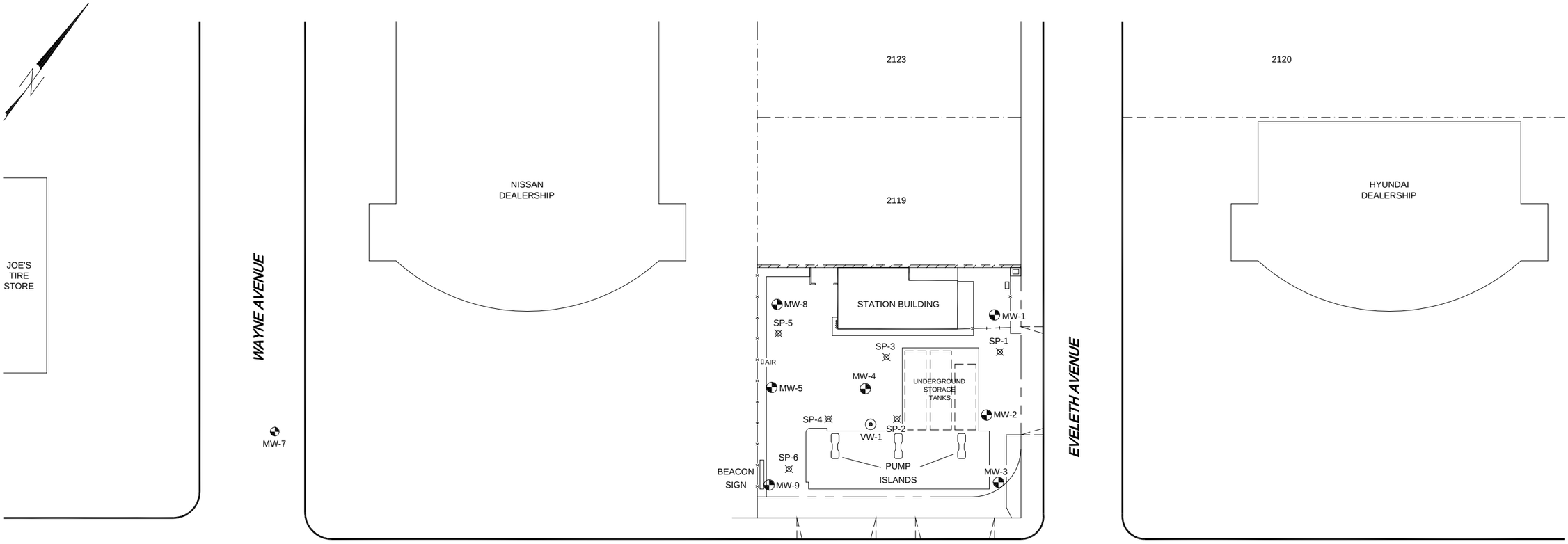
FIGURE 1

SITE LOCATION MAP

TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 12/18/01
FILE NO. 00-3720-1A	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

R D M Environmental



LEGEND:

—— — · ——	PROPERTY LINE
——x——x——	FENCE
MW-1	MONITORING WELL LOCATION
VW-1	VAPOR EXTRACTION WELL LOCATION
SP-1	AIR SPARGING WELL LOCATION

NOTES:

1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95
   SITE DIMENSIONS AND FACILTY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

0 40 FT

APPROX. SCALE

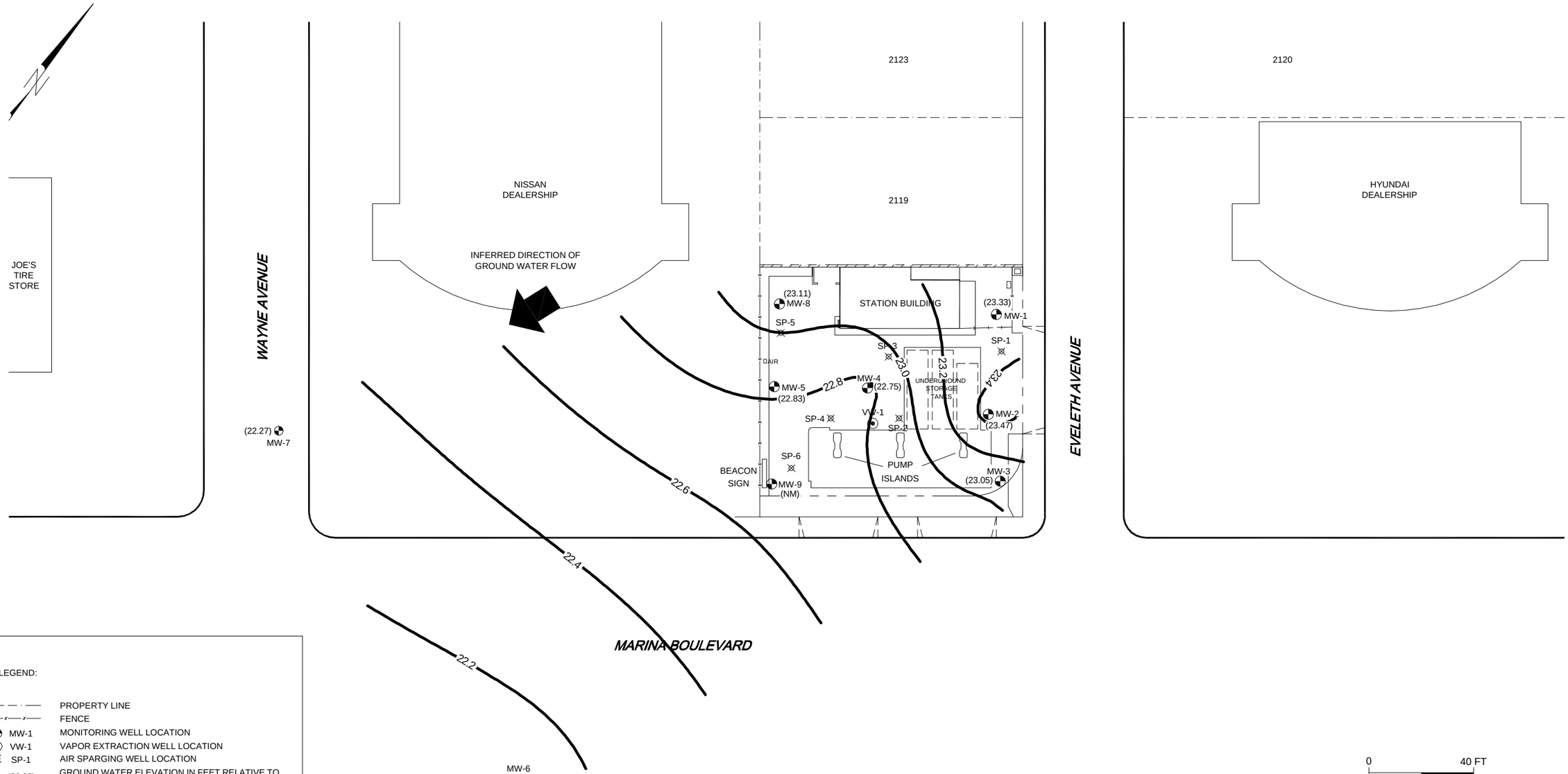
FIGURE 2

SITE MAP

TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 5/19/04
FILE NO. 00-3720-11	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



LEGEND:

—— — · ——	PROPERTY LINE
——x——x——	FENCE
MW-1	MONITORING WELL LOCATION
VW-1	VAPOR EXTRACTION WELL LOCATION
SP-1	AIR SPARGING WELL LOCATION
(23.33)	GROUND WATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL
22.6	WATER ELEVATION CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL

NOTES:

1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95
   SITE DIMENSIONS AND FACILTY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

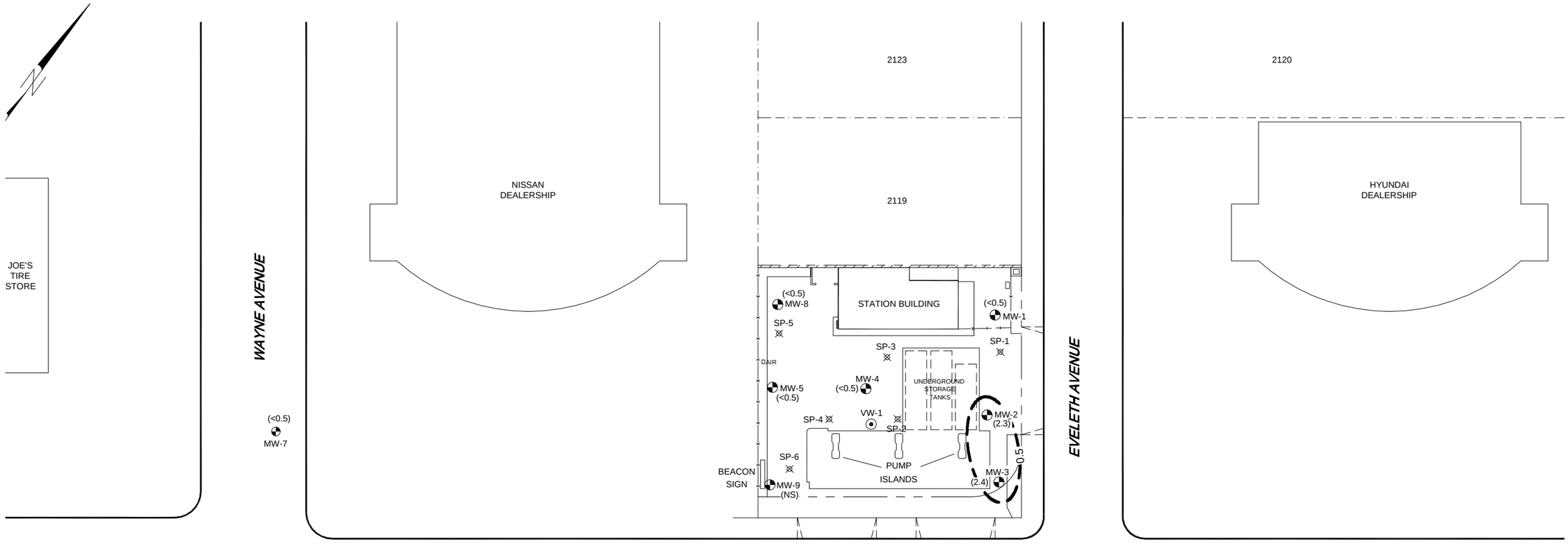
0 40 FT

APPROX. SCALE

FIGURE 3
GROUND WATER ELEVATION CONTOUR MAP
5/12/06
TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 7/11/06
FILE NO. 00-3720-11	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



LEGEND:

—— — · ——	PROPERTY LINE
——x——x——	FENCE
MW-1	MONITORING WELL LOCATION
VW-1	VAPOR EXTRACTION WELL LOCATION
SP-1	AIR SPARGING WELL LOCATION
(2.4)	BENZENE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
0.5	BENZENE ISOCONCENTRATION CONTOUR
NS	NOT SAMPLED

NOTES:

1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95 SITE DIMENSIONS AND FACILTY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

0 40 FT

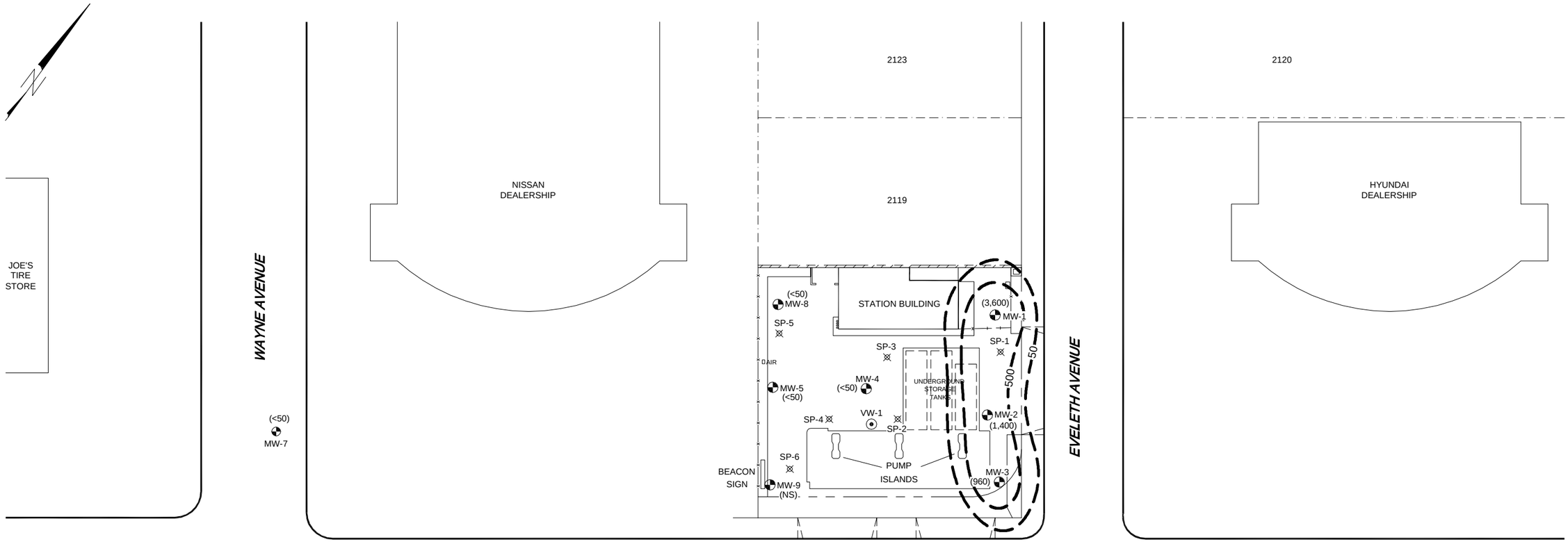
APPROX. SCALE

FIGURE 4
BENZENE ISO-CONCENTRATION MAP
5/12/06

TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 7/11/06
FILE NO. 00-3720-11	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



LEGEND:

—— — · ——	PROPERTY LINE
——x——x——	FENCE
MW-1	MONITORING WELL LOCATION
VW-1	VAPOR EXTRACTION WELL LOCATION
SP-1	AIR SPARGING WELL LOCATION
(3,600)	TPHg CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
500	TPHg ISOCONCENTRATION CONTOUR
NS	NOT SAMPLED

NOTES:

1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95 SITE DIMENSIONS AND FACILTY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

0 40 FT

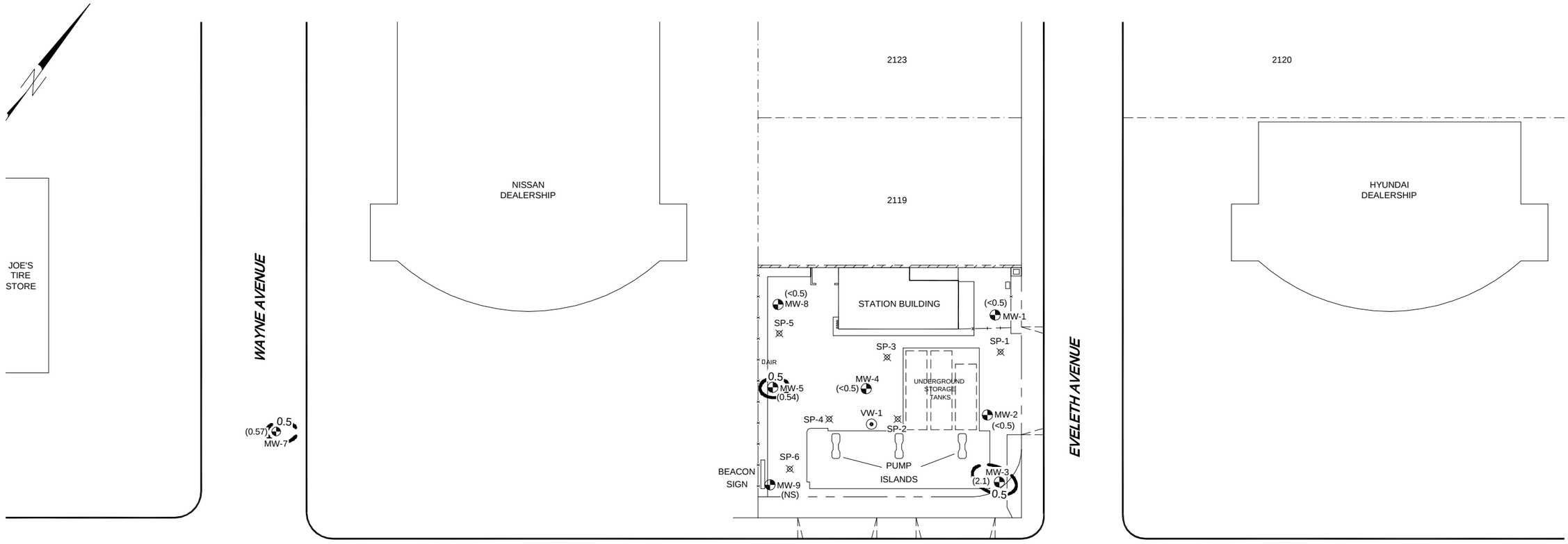
APPROX. SCALE

FIGURE 5
TPHg ISOCONCENTRATION MAP
5/12/06

TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 7/11/06
FILE NO. 00-3720-11	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



LEGEND:

—— — · ——	PROPERTY LINE
——x——x——	FENCE
MW-1	MONITORING WELL LOCATION
VW-1	VAPOR EXTRACTION WELL LOCATION
SP-1	AIR SPARGING WELL LOCATION
(2.1)	MTBE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
0.5	MTBE ISOCONCENTRATION CONTOUR
NS	NOT SAMPLED

NOTES:

1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95 SITE DIMENSIONS AND FACILTY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

0 40 FT

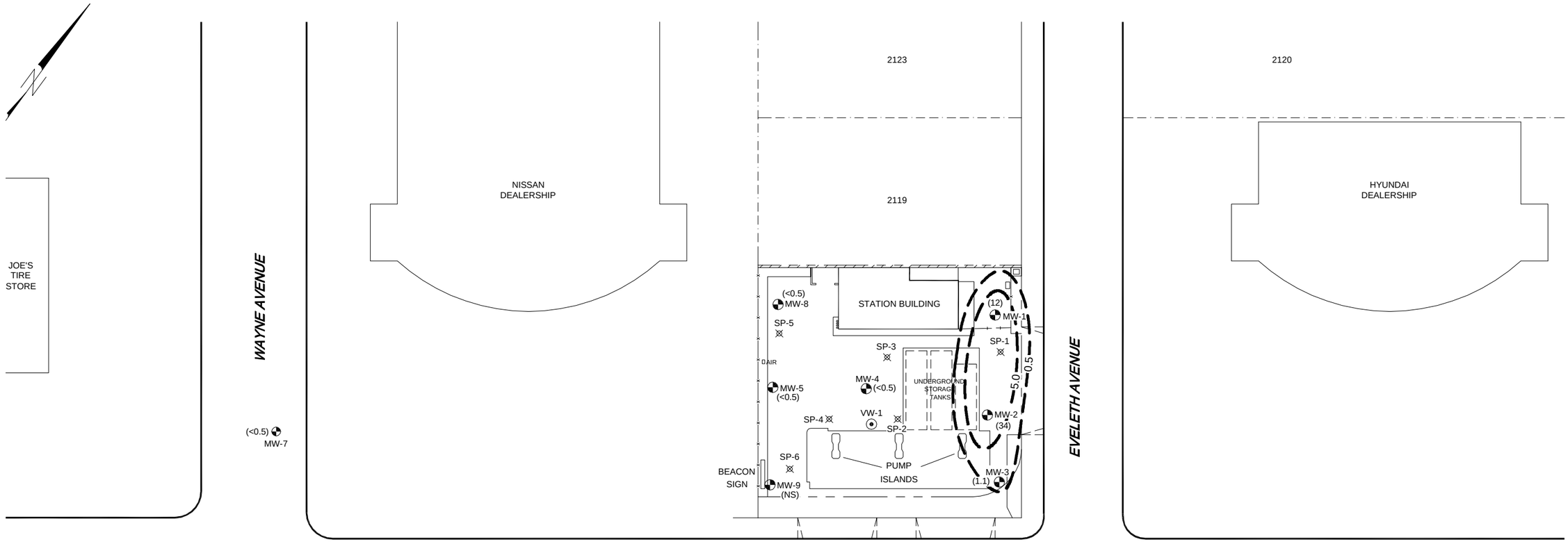
APPROX. SCALE

FIGURE 6
MTBE ISOCONCENTRATION MAP
5/12/06

TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 7/11/06
FILE NO. 00-3720-11	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM Environmental



LEGEND:

—— — · ——	PROPERTY LINE
——x——x——	FENCE
MW-1	MONITORING WELL LOCATION
VW-1	VAPOR EXTRACTION WELL LOCATION
SP-1	AIR SPARGING WELL LOCATION
(34)	XYLENES CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
5.0	XYLENES ISOCONCENTRATION CONTOUR
NS	NOT SAMPLED

NOTES:

1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95 SITE DIMENSIONS AND FACILTY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

0 40 FT

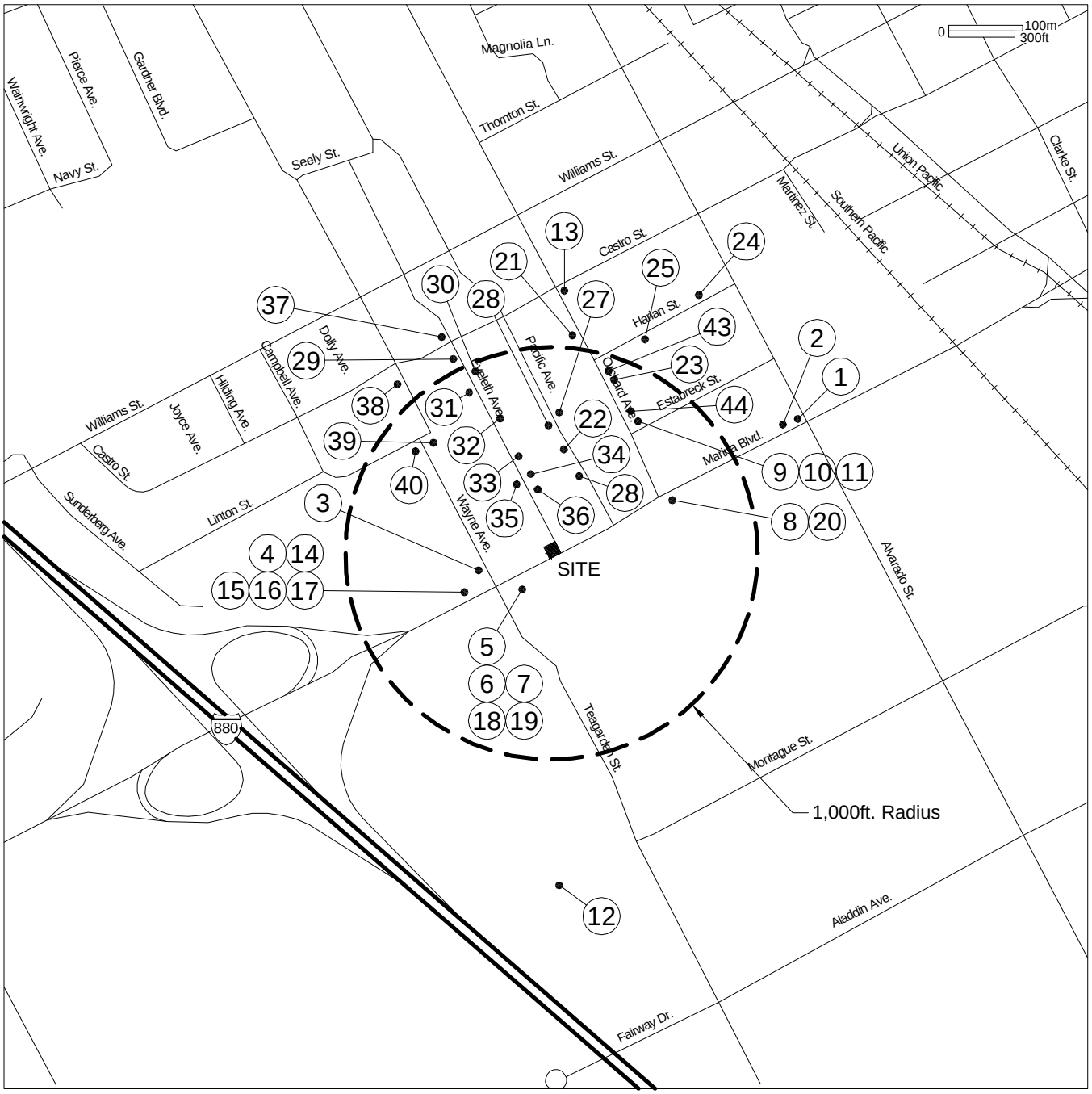
APPROX. SCALE

FIGURE 7
XYLENES ISOCONCENTRATION MAP
5/12/06

TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 7/11/06
FILE NO. 00-3720-11	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

R D M Environmental



LEGEND:

(1) WATER WELL LOCATION

GENERAL NOTES:
BASE MAP FROM U.S.G.S.
SAN LEANDRO, CA
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1980

N

QUADRANGLE LOCATION

FIGURE 8
WATER WELL LOCATION MAP

TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 8/3/06
FILE NO. 00-3720-1A	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

R D M Environmental

Appendix A

Ground Water Sampling Data Sheets –
Quarterly Ground Water Samples

RDM ENVIRONMENTAL

GROUND WATER LEVEL DATA

Project Address: Tesoro Station 67106
1088 Marina Blvd., San Leandro, CA

Date: 5/12/2006

Technicians : SG/DH

Project Number: 02-67106

Well Number	Sample Order	Time	Depth to Water	Total Depth	Depth to Product	Product Thickness	Comments
MW-1	9	1142	12.14	17.74			
MW-2	8	1140	11.64	22.31			
MW-3	6	1138	11.79	28.4			
MW-4	7	1139	12.58	27.45			
MW-5	3	1131	12.26	28.8			
MW-6	1	1128	10.63	14.86			
MW-7	2	1130	11.37	25.45			
MW-8	5	1137	12.97	28.05			
MW-9	4	1134	5.45	24.6			Air space in pulled. Several feet of thick mud.

RDM ENVIRONMENTAL SAMPLE INFORMATION SHEET

Client:	Tesoro	Sample Data:	5/12/2006
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	**Well Designation:**	MW-1
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	1142 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	Yes (No)	Remark:	CLOAK SPARK PLUG
Height of Riser			
Well Box	8" (12") 24"	Type of well box	CNI

Purging/Sampling Equipment

Purging -

2" Disposable Bailer		Submersible Pump	
2" PVC Bailer		Dedicated Bailer	
4" PVC Bailers		Centrifugal Pump	

Sampling -

Disposable Bailer		Teflon Bailer		Disposable Tubing	X

Well Purging

Well Diameter:	2"	X	4"		6"		8"	
Purge Vol. Multiplier		0.16		0.65		1.47		2.61

Initial Measurement		Recharge Measurement		Calculated Purge	2.45
Time:	1142	Time:		Actual Purge	0.75
Depth of Well	17.74	Depth to Water			
Depth to Water	12.14				

Sample

Start Purge 1744 Sample Time 1500

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1748	18.7	7.21	275	X	X	X		1
1752	18.4	7.15	276	X	X	X		2
1755	18.3	7.01	277	2.97	-023	0.6		3

Sample Appearance Clear Lock N/A

Equipment Replacement

Lock N/A Well Cap OK Bolts OK Box OK

Remarks: Purge rate @ 2Lpm/min.

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro	Sample Data:	5/12/2006
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	**Well Designation:**	MW-2
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	1140 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	(Yes) No	Remark:	
Height of Riser	2"		
Well Box	8" (12") 24"	Type of well box	FONTECO

Purging/Sampling Equipment

Purging -

2" Disposable Bailer		Submersible Pump	
2" PVC Bailer		Dedicated Bailer	
4" PVC Bailers		Centrifugal Pump	

Sampling -

Disposable Bailer		Teflon Bailer		Disposable Tubing	X

Well Purging

Well Diameter:	2" X	4"	6"	8"
Purge Vol. Multiplier	0.16	0.65	1.47	2.61

Initial Measurement		Recharge Measurement		Calculated Purge	5.12
Time:	1140	Time:		Actual Purge	0.75
Depth of Well	22.31	Depth to Water			
Depth to Water	11.64				

Sample

Start Purge 1705 Sample Time 1719

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1708	19.2	7.68	342	X	X	X		1
1712	18.1	7.41	342	X	X	X		2
1716	16.1	7.38	332	7.51	82	0.0		3

Sample Appearance CLEAR Lock ON

Equipment Replacement

Lock ok Well Cap ok Bolts ok Box ok

Remarks: Purge Rate : 240 ml/min

RDM ENVIRONMENTAL SAMPLE INFORMATION SHEET

Client:	Tesoro	Sample Data:	5/12/2006
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	**Well Designation:**	MW-3
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	1134 hours
Standing water	Yes (No)	above or below casing	
Top of well level	Yes (No)	Remark:	
Well cap & locked	(Yes) No	Remark:	
Height of Riser	2"		
Well Box	8" (12") 24"	Type of well box	CNI

Purging/Sampling Equipment

Purging -

2" Disposable Bailer		Submersible Pump	
2" PVC Bailer		Dedicated Bailer	
4" PVC Bailers		Centrifugal Pump	

Sampling -

Disposable Bailer		Teflon Bailer		Disposable Tubing	X

Well Purging

Well Diameter:	2"	X	4"		6"		8"	
Purge Vol. Multiplier		0.16		0.65		1.47		2.61

Initial Measurement		Recharge Measurement		Calculated Purge	797
Time:	1138	Time:		Actual Purge	1.00
Depth of Well	28.4	Depth to Water			
Depth to Water	11.79				

Sample

Start Purge 1557 Sample Time 1615

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1601	19.4	7.18	287	X	X	X		1
1604	19.0	6.97	283	X	X	X		2
1606	19.1	6.94	283	2.21	-048	1.0		3

Sample Appearance Clear. Lock ok

Equipment Replacement

Lock ok Well Cap ok Bolts ok Box ok

Remarks: purge rate 240 ml/min

RDM ENVIRONMENTAL SAMPLE INFORMATION SHEET

Client:	Tesoro	Sample Data:	5/12/2006
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	**Well Designation:**	MW-4
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	1139 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	Yes (No)	Remark:	OZONE SPARGE POINT
Height of Riser	2"		
Well Box	8" 12" (24")	Type of well box	Not Marked

Purging/Sampling Equipment

Purging -

2" Disposable Bailer		Submersible Pump	
2" PVC Bailer		Dedicated Bailer	
4" PVC Bailers		Centrifugal Pump	

Sampling -

Disposable Bailer		Teflon Bailer		Disposable Tubing	X

Well Purging

Well Diameter:	2" X	4"	6"	8"
Purge Vol. Multiplier	0.16	0.65	1.47	2.61

Initial Measurement		Recharge Measurement		Calculated Purge	7.14
Time:	1139	Time:		Actual Purge	0.75
Depth of Well	27.45	Depth to Water			
Depth to Water	12.58				

Sample

Start Purge 1626 Sample Time 1645

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1632	19.10	10.89	533	X	X	X		1
1637	19.19	7.43	533	X	X	X		2
1641	19.48	7.59	534	9.65	40	00		3

Sample Appearance CLOUDY Lock N/A

Equipment Replacement

Lock	N/A	Well Cap	01	Bolts	-1	Box	OK

Remarks: purge rate 160 ml/min

Client:	Tesoro	Sample Data:	5/12/2006
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	**Well Designation:**	MW-5
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	1131 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	Yes (No)	Remark:	QUICK START PLUG
Height of Riser	1"		
Well Box 8" 12" (24")		Type of well box	Not marked

Purging/Sampling Equipment

Purging -

2" Disposable Bailer	X	Submersible Pump	
2" PVC Bailer		Dedicated Bailer	
4" PVC Bailers		Centrifugal Pump	

Sampling -

Disposable Bailer		Teflon Bailer		Disposable Tubing	X

Well Purging

Well Diameter:	2"	X	4"		6"		8"	
Purge Vol. Multiplier		0.16		0.65		1.47		2.61

Initial Measurement		Recharge Measurement		Calculated Purge	7.94
Time:	1131	Time:		Actual Purge	1.0
Depth of Well	28.8	Depth to Water			
Depth to Water	12.26				

Sample

Start Purge	1315	Sample Time	1330

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1320	21.2	7.11	526	X	X	X		1
1323	20.1	7.21	524	X	X	X		2
1327	20.0	7.28	538	22.41	173	0.0		3

Sample Appearance	CLEAR	Lock	N/A

Equipment Replacement

Lock	N/A	Well Cap	OK	Bolts	-4	Box	OK

Remarks: Purge rate 240 ml/min

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro	Sample Data:	5/12/2006
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	**Well Designation:**	MW-6
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	1128 hours
Standing water	(Yes) No	(above) or below casing	
Top of well level	Yes (No)	Remark:	
Well cap & locked	(Yes) No	Remark:	
Height of Riser	8"		
Well Box	8" (12") 24"	Type of well box	Pumeo

Purging/Sampling Equipment

Purging -

2" Disposable Bailer		Submersible Pump	
2" PVC Bailer		Dedicated Bailer	
4" PVC Bailers		Centrifugal Pump	

Sampling -

Disposable Bailer		Teflon Bailer		Disposable Tubing	X

Well Purging

Well Diameter:	2" X	4"	6"	8"
Purge Vol. Multiplier	0.16	0.65	1.47	2.61

Initial Measurement		Recharge Measurement		Calculated Purge	2.05
Time:	1126	Time:		Actual Purge	0.50
Depth of Well	14.86	Depth to Water			
Depth to Water	10.62				

Sample

Start Purge _____ Sample Time 1219

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1210	14.5	7.05	1082	X	X	X		1
1213	16.6	6.94	1068	X	X	X		2
1216	17.9	7.02	1079	4.30	53	0.2		3

Sample Appearance clear Lock ok

Equipment Replacement

Lock	ok	Well Cap	ok	Bolts	-3	Box	ok

Remarks: Purge rate @ 100ml/min

Client:	Tesoro	Sample Data:	5/12/2006
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	**Well Designation:**	MW-7
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	1130 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	(Yes) No	Remark:	
Height of Riser	9"		
Well Box	8" (12") 24"	Type of well box	Pomeroy

Purging/Sampling Equipment

Purging - Peri

2" Disposable Bailer		Submersible Pump	
2" PVC Bailer		Dedicated Bailer	
4" PVC Bailers		Centrifugal Pump	

Sampling -

Disposable Bailer		Teflon Bailer		Disposable Tubing	X

Well Purging

Well Diameter:	2" X	4"	6"	8"
Purge Vol. Multiplier	0.16	0.65	1.47	2.61

Initial Measurement		Recharge Measurement		Calculated Purge	6.76
Time:	1130	Time:		Actual Purge	0.75
Depth of Well	25.45	Depth to Water			
Depth to Water	11.37				

Sample

Start Purge 1238 Sample Time 1254

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1242	20.5	7.31	412	X	X	X		1
1247	20.1	7.11	407	X	X	X		2
1250	20.1	7.04	425	2.02	12	0.0		3

Sample Appearance CLEAR Lock 04

Equipment Replacement

Lock ON Well Cap ON Bolts -3 Box no usable threads

Remarks: Purge Rate 160 ml/min

Client:	Tesoro	Sample Data:	5/12/2006
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	**Well Designation:**	MW-8
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	1137 hours
Standing water	Yes (No)	above or below casing	
Top of well level	Yes (No)	Remark:	
Well cap & locked	(Yes) No	Remark:	
Height of Riser	5"		
Well Box	8" (12") 24"	Type of well box	CNI

Purging/Sampling Equipment

Purging -

2" Disposable Bailer		Submersible Pump	
2" PVC Bailer		Dedicated Bailer	
4" PVC Bailers		Centrifugal Pump	

Sampling -

Disposable Bailer		Teflon Bailer		Disposable Tubing	X

Well Purging

Well Diameter:	2"	X	4"		6"		8"	
Purge Vol. Multiplier		0.16		0.65		1.47		2.61

Initial Measurement		Recharge Measurement		Calculated Purge	7.24
Time:	1137	Time:		Actual Purge	10
Depth of Well	28.05	Depth to Water			
Depth to Water	12.97				

Sample

Start Purge: 1516 Sample Time: 1521

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1520	19.2	7.19	834	X	X	X		1
1524	18.9	7.10	848	X	X	X		2
1528	18.9	6.99	846	5.60	-93	0.0		3

Sample Appearance: Clear Lock: ok

Equipment Replacement

Lock	ok	Well Cap	ok	Bolts	ok	Box	ok

Remarks: Purge Rate : 2.40 ml/min

Appendix B

Official Laboratory Analytical Results –
Quarterly Ground Water Samples

KIFF Analytical LLC

Report Number : 50036
Date : 05/23/2006

Richard Munsch
RDM Environmental
6280 Brookshire Drive
Rocklin, CA 95677

Subject : 8 Water Samples
Project Name : 67106
Project Number : 67106

Dear Mr. Munsch,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 50036

Date : 05/23/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-1** Matrix : Water Lab Number : 50036-01

Sample Date :05/12/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Toluene	**1.0**	0.50	ug/L	EPA 8260B	05/18/2006
Ethylbenzene	**26**	0.50	ug/L	EPA 8260B	05/18/2006
Total Xylenes	**12**	0.50	ug/L	EPA 8260B	05/18/2006
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	05/18/2006
Methanol	**330**	50	ug/L	EPA 8260B	05/18/2006
Ethanol	**390**	5.0	ug/L	EPA 8260B	05/18/2006
TPH as Gasoline	**3600**	150	ug/L	EPA 8260B	05/18/2006
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	05/18/2006
4-Bromofluorobenzene (Surr)	99.8		% Recovery	EPA 8260B	05/18/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 50036

Date : 05/23/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-2** Matrix : Water Lab Number : 50036-02

Sample Date :05/12/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**2.3**	0.50	ug/L	EPA 8260B	05/19/2006
Toluene	**1.6**	0.50	ug/L	EPA 8260B	05/19/2006
Ethylbenzene	**39**	0.50	ug/L	EPA 8260B	05/19/2006
Total Xylenes	**34**	0.50	ug/L	EPA 8260B	05/19/2006
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/19/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/19/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/19/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	05/19/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	05/19/2006
Methanol	**200**	50	ug/L	EPA 8260B	05/19/2006
Ethanol	**190**	5.0	ug/L	EPA 8260B	05/19/2006
TPH as Gasoline	**1400**	50	ug/L	EPA 8260B	05/19/2006
Toluene - d8 (Surr)	98.5		% Recovery	EPA 8260B	05/19/2006
4-Bromofluorobenzene (Surr)	98.0		% Recovery	EPA 8260B	05/19/2006

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 50036

Date : 05/23/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-3** Matrix : Water Lab Number : 50036-03

Sample Date :05/12/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**2.4**	0.50	ug/L	EPA 8260B	05/18/2006
Toluene	**1.2**	0.50	ug/L	EPA 8260B	05/18/2006
Ethylbenzene	**1.8**	0.50	ug/L	EPA 8260B	05/18/2006
Total Xylenes	**1.1**	0.50	ug/L	EPA 8260B	05/18/2006
Methyl-t-butyl ether (MTBE)	**2.1**	0.50	ug/L	EPA 8260B	05/18/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Tert-Butanol	**6.1**	5.0	ug/L	EPA 8260B	05/18/2006
Methanol	**220**	50	ug/L	EPA 8260B	05/18/2006
Ethanol	**300**	5.0	ug/L	EPA 8260B	05/18/2006
TPH as Gasoline	**960**	50	ug/L	EPA 8260B	05/18/2006
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	05/18/2006
4-Bromofluorobenzene (Surr)	95.9		% Recovery	EPA 8260B	05/18/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 50036

Date : 05/23/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-4** Matrix : Water Lab Number : 50036-04

Sample Date :05/12/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	05/19/2006
Toluene	**0.62**	0.50	ug/L	EPA 8260B	05/19/2006
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	05/19/2006
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	05/19/2006
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/19/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/19/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/19/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	05/19/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	05/19/2006
Methanol	**180**	50	ug/L	EPA 8260B	05/19/2006
Ethanol	**260**	5.0	ug/L	EPA 8260B	05/19/2006
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	05/19/2006
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	05/19/2006
4-Bromofluorobenzene (Surr)	99.2		% Recovery	EPA 8260B	05/19/2006

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 50036
Date : 05/23/2006

Project Name : **67106**
Project Number : **67106**

Sample : **MW-5** Matrix : Water Lab Number : 50036-05

Sample Date :05/12/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	05/17/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	05/17/2006
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	05/17/2006
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	05/17/2006
Methyl-t-butyl ether (MTBE)	**0.54**	0.50	ug/L	EPA 8260B	05/17/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/17/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/17/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	05/17/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	05/17/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	05/17/2006
Ethanol	**28**	5.0	ug/L	EPA 8260B	05/17/2006
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	05/17/2006
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	05/17/2006
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	05/17/2006

Approved By: Joel Kiff

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KIFF Analytical LLC

Report Number : 50036
Date : 05/23/2006

Project Name : **67106**
Project Number : **67106**

Sample : **MW-6** Matrix : Water Lab Number : 50036-06

Sample Date :05/12/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	05/17/2006
Toluene	**0.72**	0.50	ug/L	EPA 8260B	05/17/2006
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	05/17/2006
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	05/17/2006
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/17/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/17/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/17/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	05/17/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	05/17/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	05/17/2006
Ethanol	**35**	5.0	ug/L	EPA 8260B	05/17/2006
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	05/17/2006
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	05/17/2006
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	05/17/2006

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KIFF Analytical LLC

Report Number : 50036

Date : 05/23/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-7** Matrix : Water Lab Number : 50036-07

Sample Date :05/12/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Toluene	**0.59**	0.50	ug/L	EPA 8260B	05/18/2006
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Methyl-t-butyl ether (MTBE)	**0.57**	0.50	ug/L	EPA 8260B	05/18/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	05/18/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	05/18/2006
Ethanol	**15**	5.0	ug/L	EPA 8260B	05/18/2006
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	05/18/2006
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	05/18/2006
4-Bromofluorobenzene (Surr)	98.4		% Recovery	EPA 8260B	05/18/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 50036
Date : 05/23/2006

Project Name : **67106**
Project Number : **67106**

Sample : **MW-8** Matrix : Water Lab Number : 50036-08

Sample Date :05/12/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	05/18/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	05/18/2006
Methanol	**90**	50	ug/L	EPA 8260B	05/18/2006
Ethanol	**91**	5.0	ug/L	EPA 8260B	05/18/2006
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	05/18/2006
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	05/18/2006
4-Bromofluorobenzene (Surr)	97.0		% Recovery	EPA 8260B	05/18/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 50036

Date : 05/23/2006

QC Report : Method Blank Data

Project Name : **67106**

Project Number : **67106**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/17/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/17/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/17/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	05/17/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	05/17/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	05/17/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	05/17/2006
Methanol	< 50	50	ug/L	EPA 8260B	05/17/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	05/17/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	05/17/2006
Toluene - d8 (Surr)	99.3		%	EPA 8260B	05/17/2006
4-Bromofluorobenzene (Surr)	97.4		%	EPA 8260B	05/17/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/17/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/17/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/17/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	05/17/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	05/17/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	05/17/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	05/17/2006
Methanol	< 50	50	ug/L	EPA 8260B	05/17/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	05/17/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	05/17/2006
Toluene - d8 (Surr)	96.5		%	EPA 8260B	05/17/2006
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	05/17/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/18/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/18/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/18/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/18/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/18/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	05/18/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	05/18/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	05/18/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	05/18/2006
Methanol	< 50	50	ug/L	EPA 8260B	05/18/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	05/18/2006
Toluene - d8 (Surr)	98.7		%	EPA 8260B	05/18/2006
4-Bromofluorobenzene (Surr)	99.0		%	EPA 8260B	05/18/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/18/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/18/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/18/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/18/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/18/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	05/18/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	05/18/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	05/18/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	05/18/2006
Methanol	< 50	50	ug/L	EPA 8260B	05/18/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	05/18/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	05/18/2006
Toluene - d8 (Surr)	98.6		%	EPA 8260B	05/18/2006
4-Bromofluorobenzene (Surr)	97.3		%	EPA 8260B	05/18/2006

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 50036

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 05/23/2006

Project Name : **67106**

Project Number : **67106**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	49478-14	<0.50	40.0	40.0	40.8	39.3	ug/L	EPA 8260B	5/17/06	102	98.2	3.68	70-130	25
Toluene	49478-14	<0.50	40.0	40.0	40.0	38.0	ug/L	EPA 8260B	5/17/06	99.9	95.0	5.00	70-130	25
Tert-Butanol	49478-14	<5.0	200	200	204	207	ug/L	EPA 8260B	5/17/06	102	103	1.10	70-130	25
Methyl-t-Butyl Ether	49478-14	<0.50	40.0	40.0	38.4	41.2	ug/L	EPA 8260B	5/17/06	96.1	103	6.92	70-130	25
Benzene	50067-01	<0.50	40.0	40.0	42.0	40.4	ug/L	EPA 8260B	5/17/06	105	101	4.03	70-130	25
Toluene	50067-01	<0.50	40.0	40.0	42.0	40.1	ug/L	EPA 8260B	5/17/06	105	100	4.53	70-130	25
Tert-Butanol	50067-01	<5.0	200	200	208	208	ug/L	EPA 8260B	5/17/06	104	104	0.0728	70-130	25
Methyl-t-Butyl Ether	50067-01	<0.50	40.0	40.0	43.9	43.3	ug/L	EPA 8260B	5/17/06	110	108	1.39	70-130	25
Benzene	50015-07	0.80	40.0	40.0	42.1	40.4	ug/L	EPA 8260B	5/18/06	103	99.1	4.16	70-130	25
Toluene	50015-07	<0.50	40.0	40.0	41.2	38.4	ug/L	EPA 8260B	5/18/06	103	96.0	7.05	70-130	25
Tert-Butanol	50015-07	<5.0	200	200	212	208	ug/L	EPA 8260B	5/18/06	106	104	2.10	70-130	25
Methyl-t-Butyl Ether	50015-07	3.4	40.0	40.0	46.4	45.1	ug/L	EPA 8260B	5/18/06	108	104	3.07	70-130	25
Benzene	50050-03	<0.50	40.0	40.0	40.0	38.2	ug/L	EPA 8260B	5/18/06	100	95.6	4.53	70-130	25
Toluene	50050-03	<0.50	40.0	40.0	40.2	37.4	ug/L	EPA 8260B	5/18/06	100	93.6	7.13	70-130	25
Tert-Butanol	50050-03	<5.0	200	200	200	190	ug/L	EPA 8260B	5/18/06	99.8	94.8	5.14	70-130	25
Methyl-t-Butyl Ether	50050-03	<0.50	40.0	40.0	39.5	39.2	ug/L	EPA 8260B	5/18/06	98.8	97.9	0.957	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 50036

QC Report : Laboratory Control Sample (LCS)

Date : 05/23/2006

Project Name : **67106**

Project Number : **67106**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	5/17/06	103	70-130
Toluene	40.0	ug/L	EPA 8260B	5/17/06	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/17/06	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/17/06	103	70-130
Benzene	40.0	ug/L	EPA 8260B	5/17/06	103	70-130
Toluene	40.0	ug/L	EPA 8260B	5/17/06	101	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/17/06	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/17/06	108	70-130
Benzene	40.0	ug/L	EPA 8260B	5/18/06	103	70-130
Toluene	40.0	ug/L	EPA 8260B	5/18/06	101	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/18/06	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/18/06	105	70-130
Benzene	40.0	ug/L	EPA 8260B	5/18/06	101	70-130
Toluene	40.0	ug/L	EPA 8260B	5/18/06	99.7	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/18/06	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/18/06	97.4	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Analysis Summary

Report Number : 50036

Date : 05/23/06

Attention : Richard Munsch
RDM Environmental
6280 Brookshire Drive
Rocklin, CA 95677

Project Name :67106
Project Number : 67106

			Sample Name	MW-1	MW-2		MW-3		MW-4		MW-5		MW-6		MW-7		MW-8	
			Sample Date	05/12/06	05/12/06		05/12/06		05/12/06		05/12/06		05/12/06		05/12/06		05/12/06	
Analyte	Method	Units		MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L		0.50	ND	0.50	**2.3**	0.50	**2.4**	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Toluene	EPA 8260B	ug/L		0.50	**1.0**	0.50	**1.6**	0.50	**1.2**	0.50	**0.62**	0.50	ND	0.50	**0.72**	0.50	**0.59**	0.50	ND
Ethylbenzene	EPA 8260B	ug/L		0.50	**26**	0.50	**39**	0.50	**1.8**	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Total Xylenes	EPA 8260B	ug/L		0.50	**12**	0.50	**34**	0.50	**1.1**	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L		0.50	ND	0.50	ND	0.50	**2.1**	0.50	ND	0.50	**0.54**	0.50	ND	0.50	**0.57**	0.50	ND
Diisopropyl ether (DIPE)	EPA 8260B	ug/L		0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L		0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L		0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L		5.0	ND	5.0	ND	5.0	**6.1**	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND
Methanol	EPA 8260B	ug/L		50	**330**	50	**200**	50	**220**	50	**180**	50	ND	50	ND	50	ND	50	**90**
Ethanol	EPA 8260B	ug/L		5.0	**390**	5.0	**190**	5.0	**300**	5.0	**260**	5.0	**28**	5.0	**35**	5.0	**15**	5.0	**91**
TPH as Gasoline	EPA 8260B	ug/L		150	**3600**	50	**1400**	50	**960**	50	ND	50	ND	50	ND	50	ND	50	ND
Toluene - d8 (Surr)	EPA 8260B	%			99.0		98.5		100		98.3		98.4		98.3		99.6		99.5
4-Bromofluorobenzene (Surr)	EPA 8260B	%			99.8		98.0		95.9		99.2		102		100		98.4		97.0

MRL = Method Reporting Limit
ND = Not Detected

Approved By,

Joel Kiff

Calscience Environmental Laboratories, Inc.

May 23, 2006

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 06-05-1047**
Client Reference: 67106

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 5/17/2006 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 05/17/06
Work Order No: 06-05-1047
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: 67106

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-1	**06-05-1047-1**	**05/12/06**	**Aqueous**	**05/17/06**	**05/18/06**	**060517L08**

Parameter	Result	RL	DF	Qual	Units
Iron	1.36	0.10	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-2	**06-05-1047-2**	**05/12/06**	**Aqueous**	**05/17/06**	**05/18/06**	**060517L08**

Parameter	Result	RL	DF	Qual	Units
Iron	0.703	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-3	**06-05-1047-3**	**05/12/06**	**Aqueous**	**05/17/06**	**05/18/06**	**060517L08**

Parameter	Result	RL	DF	Qual	Units
Iron	1.23	0.10	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-4	**06-05-1047-4**	**05/12/06**	**Aqueous**	**05/17/06**	**05/18/06**	**060517L08**

Parameter	Result	RL	DF	Qual	Units
Iron	94.5	0.1	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-5	**06-05-1047-5**	**05/12/06**	**Aqueous**	**05/17/06**	**05/18/06**	**060517L08**

Parameter	Result	RL	DF	Qual	Units
Iron	0.360	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-6	**06-05-1047-6**	**05/12/06**	**Aqueous**	**05/17/06**	**05/18/06**	**060517L08**

Parameter	Result	RL	DF	Qual	Units
Iron	ND	0.100	1		mg/L

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 05/17/06
Work Order No: 06-05-1047
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: 67106

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-7	**06-05-1047-7**	**05/12/06**	**Aqueous**	**05/17/06**	**05/18/06**	**060517L08**

Parameter	Result	RL	DF	Qual	Units
Iron	ND	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-8	**06-05-1047-8**	**05/12/06**	**Aqueous**	**05/17/06**	**05/18/06**	**060517L08**

Parameter	Result	RL	DF	Qual	Units
Iron	ND	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**097-01-003-6,123**	**N/A**	**Aqueous**	**05/17/06**	**05/18/06**	**060517L08**

Parameter	Result	RL	DF	Qual	Units
Iron	ND	0.100	1		mg/L

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 05/17/06
Work Order No: 06-05-1047

Project: 67106

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-1	**06-05-1047-1**	**05/12/06**	**Aqueous**

Comment(s): (1) Sample was not received within recommended holding time.

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	11	0.50	1		mg/L	N/A	05/18/06	EPA 415.1
Alkalinity, Total (as CaCO3)	120	5.0	1		mg/L	N/A	05/17/06	SM 2320B
Carbon Dioxide (1)	41	1.0	1		mg/L	N/A	05/17/06	SM4500-CO2D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-2	**06-05-1047-2**	**05/12/06**	**Aqueous**

Comment(s): (1) Sample was not received within recommended holding time.

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	3.9	0.5	1		mg/L	N/A	05/18/06	EPA 415.1
Alkalinity, Total (as CaCO3)	68	1.0	1		mg/L	N/A	05/17/06	SM 2320B
Carbon Dioxide (1)	59	1.0	1		mg/L	N/A	05/17/06	SM4500-CO2D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-3	**06-05-1047-3**	**05/12/06**	**Aqueous**

Comment(s): (1) Sample was not received within recommended holding time.

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	3.8	0.5	1		mg/L	N/A	05/18/06	EPA 415.1
Alkalinity, Total (as CaCO3)	76	1.0	1		mg/L	N/A	05/17/06	SM 2320B
Carbon Dioxide (1)	42	1.0	1		mg/L	N/A	05/17/06	SM4500-CO2D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-4	**06-05-1047-4**	**05/12/06**	**Aqueous**

Comment(s): (1) Sample was not received within recommended holding time.

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	2.4	0.5	1		mg/L	N/A	05/18/06	EPA 415.1
Alkalinity, Total (as CaCO3)	190	5.0	1		mg/L	N/A	05/17/06	SM 2320B
Carbon Dioxide (1)	3.9	1.0	1		mg/L	N/A	05/17/06	SM4500-CO2D

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 05/17/06
Work Order No: 06-05-1047

Project: 67106

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-5	**06-05-1047-5**	**05/12/06**	**Aqueous**

Comment(s): (1) Sample was not received within recommended holding time.

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	1.9	0.5	1		mg/L	N/A	05/18/06	EPA 415.1
Alkalinity, Total (as CaCO3)	250	5.0	1		mg/L	N/A	05/17/06	SM 2320B
Carbon Dioxide (1)	12	1.0	1		mg/L	N/A	05/17/06	SM4500-CO2D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-6	**06-05-1047-6**	**05/12/06**	**Aqueous**

Comment(s): (1) Sample was not received within recommended holding time.

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	3.9	0.5	1		mg/L	N/A	05/18/06	EPA 415.1
Alkalinity, Total (as CaCO3)	510	5.0	1		mg/L	N/A	05/17/06	SM 2320B
Carbon Dioxide (1)	160	5.0	1		mg/L	N/A	05/17/06	SM4500-CO2D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-7	**06-05-1047-7**	**05/12/06**	**Aqueous**

Comment(s): (1) Sample was not received within recommended holding time.

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	2.1	0.5	1		mg/L	N/A	05/18/06	EPA 415.1
Alkalinity, Total (as CaCO3)	170	5.0	1		mg/L	N/A	05/17/06	SM 2320B
Carbon Dioxide (1)	65	1.0	1		mg/L	N/A	05/17/06	SM4500-CO2D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-8	**06-05-1047-8**	**05/12/06**	**Aqueous**

Comment(s): (1) Sample was not received within recommended holding time.

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	2.9	0.5	1		mg/L	N/A	05/18/06	EPA 415.1
Alkalinity, Total (as CaCO3)	290	5.0	1		mg/L	N/A	05/17/06	SM 2320B
Carbon Dioxide (1)	87	1.0	1		mg/L	N/A	05/17/06	SM4500-CO2D

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 05/17/06
Work Order No: 06-05-1047

Project: 67106

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		**N/A**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	ND	0.50	1		mg/L	N/A	05/18/06	EPA 415.1

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 05/17/06
Work Order No: 06-05-1047
Preparation: EPA 3010A Total
Method: EPA 6010B

Project 67106

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
06-05-1079-2	**Aqueous**	**ICP 3300**	**05/17/06**	**05/18/06**	**060517S08**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron	93	122	65-149	8	0-21	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A
Work Order No: 06-05-1047

Project: 67106

Matrix: Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Carbon, Total Organic	EPA 415.1	06-05-1059-4	05/18/06	N/A	110	104	70-130	4	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A
Work Order No: 06-05-1047

Project: 67106

Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
Alkalinity, Total (as CaCO3)	SM 2320B	06-05-1059-4	05/17/06	390	390	0	0-25	
Bicarbonate (as CaCO3)	SM 2320B	06-05-1059-4	05/17/06	390	390	0	0-25	
Carbonate (as CaCO3)	SM 2320B	06-05-1059-4	05/17/06	ND	ND	NA	0-25	
Hydroxide (as CaCO3)	SM 2320B	06-05-1059-4	05/17/06	ND	ND	NA	0-25	
Carbon Dioxide	SM4500-CO2D	06-05-1059-4	05/17/06	39	40	2	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A
Work Order No: 06-05-1047
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: 67106

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-6,123	**Aqueous**	**ICP 3300**	**05/17/06**	**05/18/06**	**060517L08**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron	107	108	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A
Work Order No: 06-05-1047

Project: 67106

Matrix : Aqueous

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Carbon, Total Organic	EPA 415.1	099-05-097-2,301	05/18/06	N/A	5.0	5.2	104	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 06-05-1047

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

KIFF Analytical LLC

2795 Second Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Cal Science Environmental
7440 Lincoln Way
Garden Grove, CA 92841
714-895-5494

Lab No. 1047

Page 1 of 1

Project Contact (Hardcopy or PDF to): Troy Turpen

EDF Report? __ Yes _X_ No

Chain-of-Custody Record and Analysis Request

Company/Address: Kiff Analytical, LLC

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

EDF Deliverable to (Email Address):

Phone No.: | FAX No.:

Project Number: 67106 | P.O. No.: 50036

Project Name: 67106

E-mail address: inbox@kiffanalytical.com

Project Address:

Sample Designation	Sampling		Container					Preservative					Matrix			Analysis Request								Date due:	For Lab Use Only
	Date	Time	Glass	Poly	Sleeve	Amber		HCl	HNO3	H_2SO_4	NONE	$Na_2S_2O_3$	WATER	SOIL		Alkalinity by SM2320B	Total Organic Carbon byEPA 415.1	Total Iron by EPA 6010	Dissolved CO2 by SM4500-CO2					May 23, 2006	
MW-1	5/12/06	18:00	1	3					1	1	2		X			X	X	X	X					X	
MW-2	5/12/06	17:19	1	3					1	1	2		X			X	X	X	X					X	
MW-3	5/12/06	16:15	1	3					1	1	2		X			X	X	X	X					X	
MW-4	5/12/06	16:45	1	3					1	1	2		X			X	X	X	X					X	
MW-5	5/12/06	13:30	1	3					1	1	2		X			X	X	X	X					X	
MW-6	5/12/06	12:19	1	3					1	1	2		X			X	X	X	X					X	
MW-7	5/12/06	12:54	1	3					1	1	2		X			X	X	X	X					X	
MW-8	5/12/06	15:32	1	3					1	1	2		X			X	X	X	X					X	

	Date	Time		
Relinquished by: [signature] – Kiff Analytical	051606	1900	Received by:	
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date 5/17/06	Time 0900	Received by Laboratory: [signature] CEC	

Remarks:

Bill to: Accounts Payable

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 06 - 05 - 1047

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiff **DATE:** 5/17/06

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

4.0 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: JP

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Applicable (N/A): _____

Initial: JP

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC		✓	
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: JP

COMMENTS:

KIFF Analytical LLC
2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 50036

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Richard Muscat

California EDF Report? ☐ Yes ☐ No

Company / Address: RDM Env. 1280 Brookshire Rocklin

Sampling Company Log Code:

Phone #: 916 415 1134

Fax #: 916 415 1154

Global ID:

Project #: 67106

P.O. #: —

EDF Deliverable To (Email Address):

Project Name: 67106

Sampler Signature: [signature]

Project Address: 1088 Marina San Leandro.

Sample Designation	Date	Time	40 ml VOA	Sleeve	Poly	Glass	Tedlar		HCl	HNO_3	None	H_2SO_4		Water	Soil	Air		MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (EPA 8260B)	7 Oxygenates (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 6010)	W.E.T. Lead (STLC)	See Attached			TAT	For Lab Use Only
MW-1	5/12/06	1800	3		3	1			3	1	2	1		X						X	X		X									X				01
MW-2	5/12/06	1719	3		3	1			3	1	2	1		X						X	X		X									X				02
MW-3	5/12/06	1615	3		3	1			3	1	2	1		X						X	X		X									X				03
MW-4	5/12/06	1645	3		3	1			3	1	2	1		X						X	X		X									X				04
MW-5	5/12/06	1330	3		3	1			3	1	2	1		X						X	X		X									X				05
MW-6	5/12/06	1219	3		3	1			3	1	2	1		X						X	X		X									X				06
MW-7	5/12/06	1254	3		3	1			3	1	2	1		X						X	X		X									X				07
MW-8	5/12/06	1532	3		3	1			3	1	2	1		X						X	X		X									X				08
~~MW-9~~	~~5/12/06~~		~~3~~		~~3~~	~~1~~			~~3~~	~~1~~	~~2~~	~~1~~		~~X~~																						

TAT: ☐ 12 hr ☐ 24 hr ☐ 48 hr ☐ 72 hr ☐ 1 wk

Relinquished by:	Date	Time	Received by:
Douglas Huff			
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	051606	1215	[signature] Kiff Analytical

Remarks: STAT

Email copy to RDM

Bill to: Tesoro / Rob Donovan

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
1.8	[initials]	051606	1515	IR-4	(Yes) No

Distribution: White - Lab; Pink - Originator
Rev: 051805

KIFF Analytical LLC

50036

Bottle Order Form

Submitted By: Troy Turpen
Client Name: Richard Munsch
Company Name: RDM Environmental
Delivery Address: 6280 Brookshire Drive, Rocklin, CA 95677
Phone Number: 916-415-1134
Date Submitted: 5/4/2006
Delivery By: 5/10/2006

Project Name: unknown

For Sample Receiving (SR) Use Only

Order Completed By:	**Date:**	**Bottle Order#:**
Order Verified By:	**Date:**	**B00401**
Delivery Method : ☐ UPS Ground ☐ Fed Ex ☐ California Overnight ☐ Kiff Courier Drop Off ☐ Client Pick Up		
Picked up By:		

Analytes	Method	Matrix	Hold Time	Number of samples	Number of Containers per sample	Total number of Containers	Container Type	Preservative	Lab
7011 Gas, BTEX, MTBE	EPA 8260B	Water	14 days	9	3	27	40mL VOA	HCl, 4°C	Kiff
Alkalinity	SM 2320B	Water	14 days	9	1	9	250mL HDPE	4°C	Calscience
Total Organic Carbon	EPA 415.1	Water	28 days	9	1	9	250mL glass	H_2SO_4, 4°C	
Total Iron	EPA 6010	Water	180 days	9	1	9	250mL HDPE	HNO_3	
Dissolved CO_2		"	7days	9	1	9	250mL	None	

Voa Supplies	Quantity
☐ 40 mL HCL preserved VOAs ☐ Case ☐ Individual	
☐ 40 mL unpreserved VOAs	
☐ 40 mL Ascorbic Acid preserved VOAs	
☐ Purged Water	
☐ Trip Blanks HCL preserved VOAs	
☐ Trip Blanks unpreserved VOAs	
☐ Trip Blanks Ascorbic Acid preserved VOAs	
☐ Trip Blanks Other preservative _____	

Tedlar Bag Order	Quantity
☐ Tedlar Bag ($10/bag)	
Total Cost:	
Ordered By:	
Bill to company:	
Bill to address:	
Bill to person:	
Project ID or PO#:	
Date Ordered:	

Supplies	Quantity	Cooler #
☐ Small Cooler ~24 Qt.		
☐ Medium Cooler ~28 Qt.		
☐ Large Cooler ~50 Qt.		
☑ Chain of Custody	3	
☑ Container Labels	60	
☐ Shipping Labels ☐ FedEx ☐ Cal Overnight		
☐ Ziploc Bags		
☐ Other Supplies_____		

Notes:

Appendix C

Official Laboratory Analytical Results –
Soil Vapor Extraction Analytical Data

KIFF Analytical LLC

Report Number : 49696
Date : 4/27/2006

Richard Munsch
RDM Environmental
6280 Brookshire Drive
Rocklin, CA 95677

Subject : 3 Vapor Samples
Project Name : 67106
Project Number : 67106

Dear Mr. Munsch,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 49696
Date : 4/27/2006

Project Name : **67106**
Project Number : **67106**

Sample : **INF** Matrix : Air Lab Number : 49696-01

Sample Date :4/25/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Toluene	**0.077**	0.050	ppmv	EPA 8260B	4/27/2006
Ethylbenzene	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Total Xylenes	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Methyl-t-butyl ether (MTBE)	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Diisopropyl ether (DIPE)	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Ethyl-t-butyl ether (ETBE)	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Tert-amyl methyl ether (TAME)	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Tert-Butanol	**< 0.50**	0.50	ppmv	EPA 8260B	4/27/2006
TPH as Gasoline	**< 5.0**	5.0	ppmv	EPA 8260B	4/27/2006
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	4/27/2006
Toluene - d8 (Surr)	96.2		% Recovery	EPA 8260B	4/27/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 49696
Date : 4/27/2006

Project Name : **67106**
Project Number : **67106**

Sample : **MID** Matrix : Air Lab Number : 49696-02

Sample Date :4/25/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Toluene	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Ethylbenzene	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Total Xylenes	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Methyl-t-butyl ether (MTBE)	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Diisopropyl ether (DIPE)	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Ethyl-t-butyl ether (ETBE)	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Tert-amyl methyl ether (TAME)	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Tert-Butanol	**< 0.50**	0.50	ppmv	EPA 8260B	4/27/2006
TPH as Gasoline	**< 5.0**	5.0	ppmv	EPA 8260B	4/27/2006
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	4/27/2006
Toluene - d8 (Surr)	97.5		% Recovery	EPA 8260B	4/27/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 49696
Date : 4/27/2006

Project Name : **67106**
Project Number : **67106**

Sample : **EFF** Matrix : Air Lab Number : 49696-03

Sample Date :4/25/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Toluene	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Ethylbenzene	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Total Xylenes	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Methyl-t-butyl ether (MTBE)	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Diisopropyl ether (DIPE)	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Ethyl-t-butyl ether (ETBE)	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Tert-amyl methyl ether (TAME)	**< 0.050**	0.050	ppmv	EPA 8260B	4/27/2006
Tert-Butanol	**< 0.50**	0.50	ppmv	EPA 8260B	4/27/2006
TPH as Gasoline	**< 5.0**	5.0	ppmv	EPA 8260B	4/27/2006
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	4/27/2006
Toluene - d8 (Surr)	97.1		% Recovery	EPA 8260B	4/27/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 49696

Date : 4/27/2006

QC Report : Method Blank Data

Project Name : **67106**

Project Number : **67106**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	ppmv	EPA 8260B	4/26/2006
Toluene	< 0.050	0.050	ppmv	EPA 8260B	4/26/2006
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	4/26/2006
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	4/26/2006
Methyl-t-butyl ether (MTBE)	< 0.050	0.050	ppmv	EPA 8260B	4/26/2006
Diisopropyl ether (DIPE)	< 0.050	0.050	ppmv	EPA 8260B	4/26/2006
Ethyl-t-butyl ether (ETBE)	< 0.050	0.050	ppmv	EPA 8260B	4/26/2006
Tert-amyl methyl ether (TAME)	< 0.050	0.050	ppmv	EPA 8260B	4/26/2006
Tert-Butanol	< 0.50	0.50	ppmv	EPA 8260B	4/26/2006
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	4/26/2006
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	4/26/2006
Toluene - d8 (Surr)	100		%	EPA 8260B	4/26/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Analysis Summary

Report Number : 49696

Date : 4/27/2006

Attention : Richard Munsch
RDM Environmental
6280 Brookshire Drive
Rocklin, CA 95677

Project Name :67106
Project Number : 67106

			Sample Name	INF		MID		EFF	
			Sample Date	4/25/2006		4/25/2006		4/25/2006	
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ppmv	0.050	ND	0.050	ND	0.050	ND
Toluene	EPA 8260B	ppmv	0.050	**0.077**	0.050	ND	0.050	ND
Ethylbenzene	EPA 8260B	ppmv	0.050	ND	0.050	ND	0.050	ND
Total Xylenes	EPA 8260B	ppmv	0.050	ND	0.050	ND	0.050	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ppmv	0.050	ND	0.050	ND	0.050	ND
Diisopropyl ether (DIPE)	EPA 8260B	ppmv	0.050	ND	0.050	ND	0.050	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ppmv	0.050	ND	0.050	ND	0.050	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ppmv	0.050	ND	0.050	ND	0.050	ND
Tert-Butanol	EPA 8260B	ppmv	0.50	ND	0.50	ND	0.50	ND
TPH as Gasoline	EPA 8260B	ppmv	5.0	ND	5.0	ND	5.0	ND
Toluene - d8 (Surr)	EPA 8260B	%		96.2		97.5		97.1
4-Bromofluorobenzene (Surr)	EPA 8260B	%		103		107		106

MRL = Method Reporting Limit
ND = Not Detected

Approved By,

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800
ELAP # 2236

KIFF Analytical LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 49696

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): RICHARD MUNSEY

Company / Address: RDMS / 6280 Brookshire Rocklin

Phone #: 916 445 1134

Fax #: 916 415 1154

Project #: 67106

P.O. #: —

Project Name: 67106

California EDF Report? ☐ Yes ☐ No

Sampling Company Log Code:

Global ID:

EDF Deliverable To (Email Address):

Sampler Signature:

Project Address: 10888 Marina San Leandro

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: None	Matrix: Water	Matrix: Soil	Matrix: Air	MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (EPA 8260B)	7 Oxygenates (EPA 8260B)	Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 6010)	W.E.T. Lead (STLC)	TAT	For Lab Use Only
INF	4/25/06	0846					1			X			X			X	X	X											01
MID	"	0835					1			X			X			X	X	X											02
~~EF~~	"	0830					1			X			X			X	X	X											03

TAT: ☐ 12 hr ☐ 24 hr ☐ 48 hr ☐ 72 hr ☐ 1 wk

Relinquished by:	Date	Time	Received by:
DOUGLAS HOFF			
	042606	0926	Received by Laboratory: Jason N

Remarks: STAT

Email Copy to RDMS

Bill to: Tesoro / Rob Donovan

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

Distribution: White - Lab; Pink - Originator
Rev: 051805

Appendix D

Department of Water Resources
Boring Logs

01-1350

Source: U.S. Geological Survey
San Leandro,
7.5 Minute Quadrangle

Approximate Scale
2000 1000 0 2000 4000
feet

Applied GeoSystems
43253 Mission Blvd Suite B Fremont CA 94539 (415) 651-3406

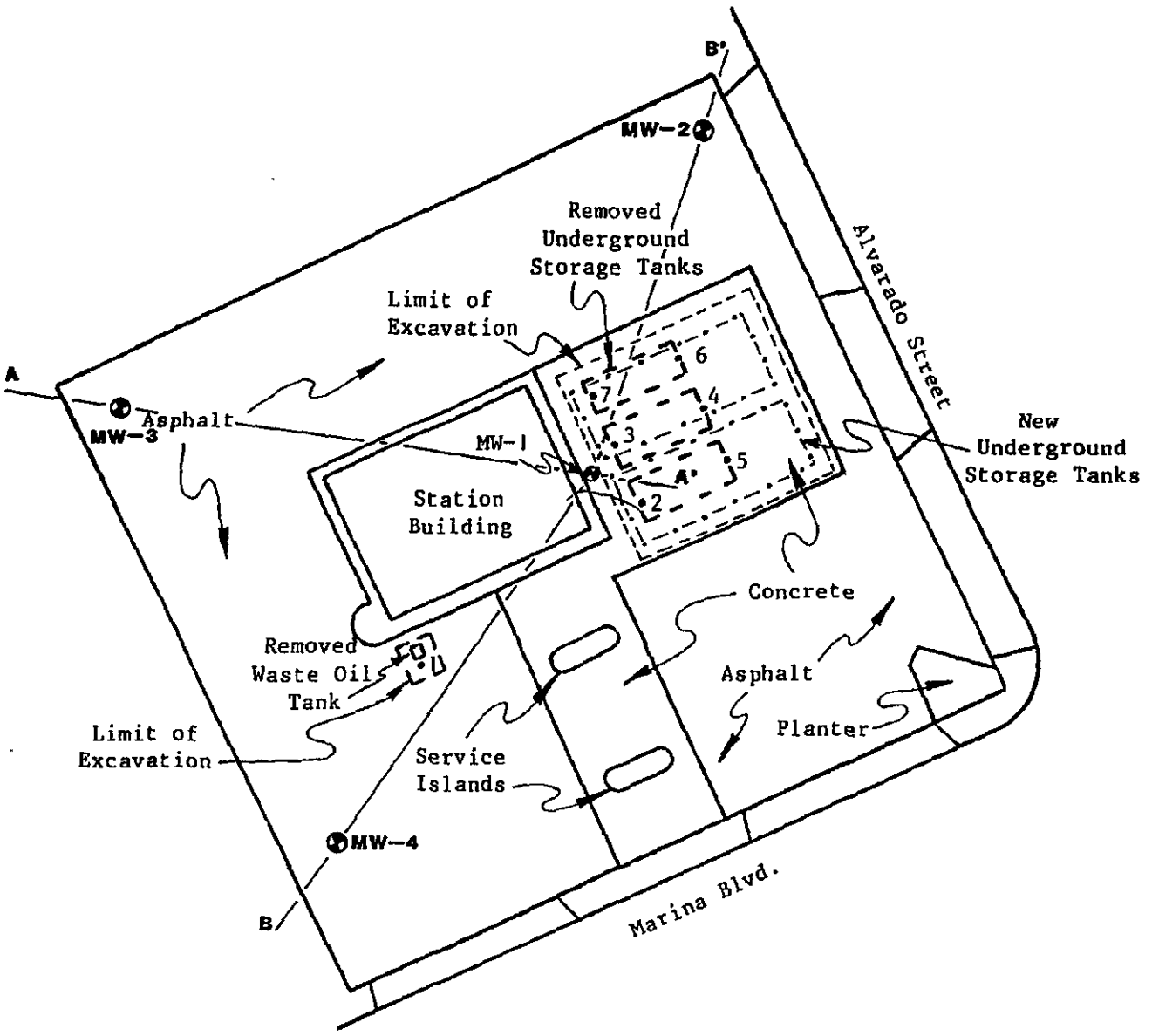
PROJECT NO. AGS 87043-2

SITE VICINITY MAP
UNOCAL Station #4845
Marina Blvd. and Alvarado Street
San Leandro, California

PLATE
P-1

01-1350 2S/3W35G3

#P7110



Source: Modified from Site Plan supplied by UNOCAL

EXPLANATION

A-A' - Cross Section Location
⊕ - Ground Water Monitoring Well
•7 - Soil Sample Location (Blaine Tech)

N

Approximate Scale
0 25 50
feet

Applied GeoSystems
4326 Alvarado Blvd Suite B Fremont CA 94538 (415) 651-1906

PROJECT NO. AGS 87043-2

GENERALIZED SITE PLAN
UNOCAL Station #4845
Marina Blvd. and Alvarado Street
San Leandro, California

PLATE
P-2

01-1350 2S/3W3563

#87110

DEPTH IN FEET	Blows/ Ft.	Sample No.	USCS	DESCRIPTION	WELL CONST.
0				Non reinforced concrete (6")	
2			CL	Silty clay, black-brown	
4	20	S-4	SM-ML	Silty sand, fine-grained, brown, damp, no plasticity medium dense	
8	16	S-10	CH	Silty clay, trace silt, brown, moist, high plasticity, stiff	
14	34	S-14	SM	Silty sand, fine-grained, brown, moist, no plasticity, dense	
18			CL	Silty clay, some silt, brown, moist, low plasticity, stiff	
20	16	S-20		▼	
24	33	S-25		Hard.	
28	32	S-30			
30				(Section continues downward)	

Applied GeoSystems

PROJECT NO. AGS 87043-2

LOG OF BORING B-1/MW-1

UNOCAL Station #4845
Marina Blvd. and Alvarado Street
San Leandro, California

PLATE P-5

01-1350 2S/3W35G3

#87110

DEPTH IN FEET	Blows/ Ft.	Sample No.	USCS	DESCRIPTION	WELL CONST.
30			CL	Silty clay, some silt, brown, moist, low plasticity hard	
32					
34	7	S-35		Soft	
36					
38					
40	26	S-40		Clay, trace of coarse sand, very stiff.	Caved
42				Total Depth = 42 feet Well terminated due to sufficient depth below ground water and sufficient depth to evaluate contamination.	
44					
46					

Applied GeoSystems

PROJECT NO. AGS 87043-2

LOG OF BORING B-1/MW-1

UNOCAL Station #4845
Marina Blvd. and Alvarado Street
San Leandro, California

PLATE P-6

01-1350

Source: U.S. Geological Survey
San Leandro,
7.5 Minute Quadrangle

N

Approximate Scale
2000 1000 0 2000 4000
feet

Applied GeoSystems

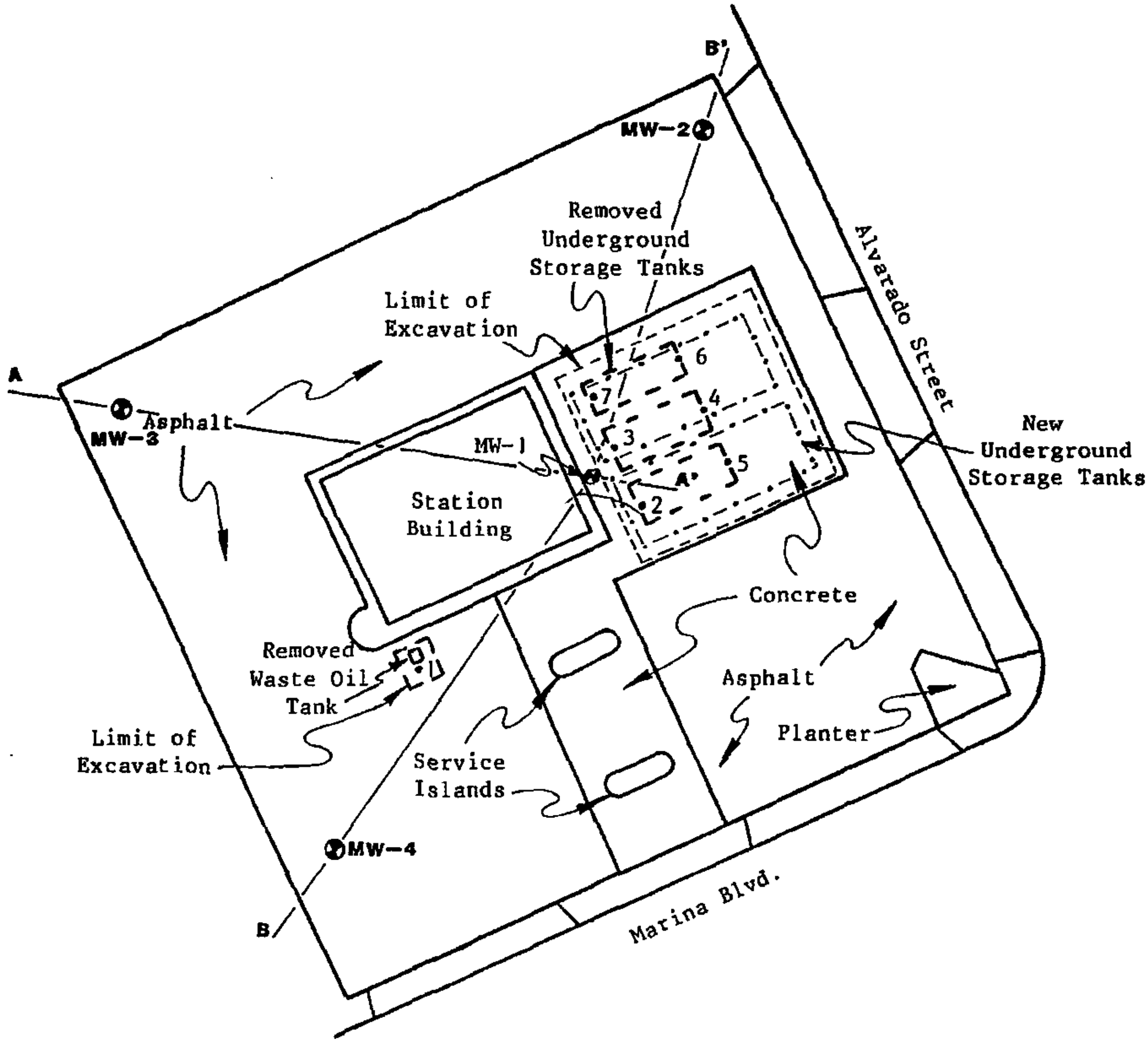
PROJECT NO. AGS 87043-2

SITE VICINITY MAP
UNOCAL Station #4845
Marina Blvd. and Alvarado Street
San Leandro, California

PLATE
P-1

01-1350 2S/3W35G3

#87110



Source: Modified from Site Plan supplied by UNOCAL

N

Approximate Scale
0 25 50
feet

EXPLANATION

A-A' - Cross Section Location
- Ground Water Monitoring Well
•7 - Soil Sample Location (Blaine Tech)

Applied GeoSystems

43255 Mission Blvd. Suite B Fremont, CA 94539 (415) 651-1906

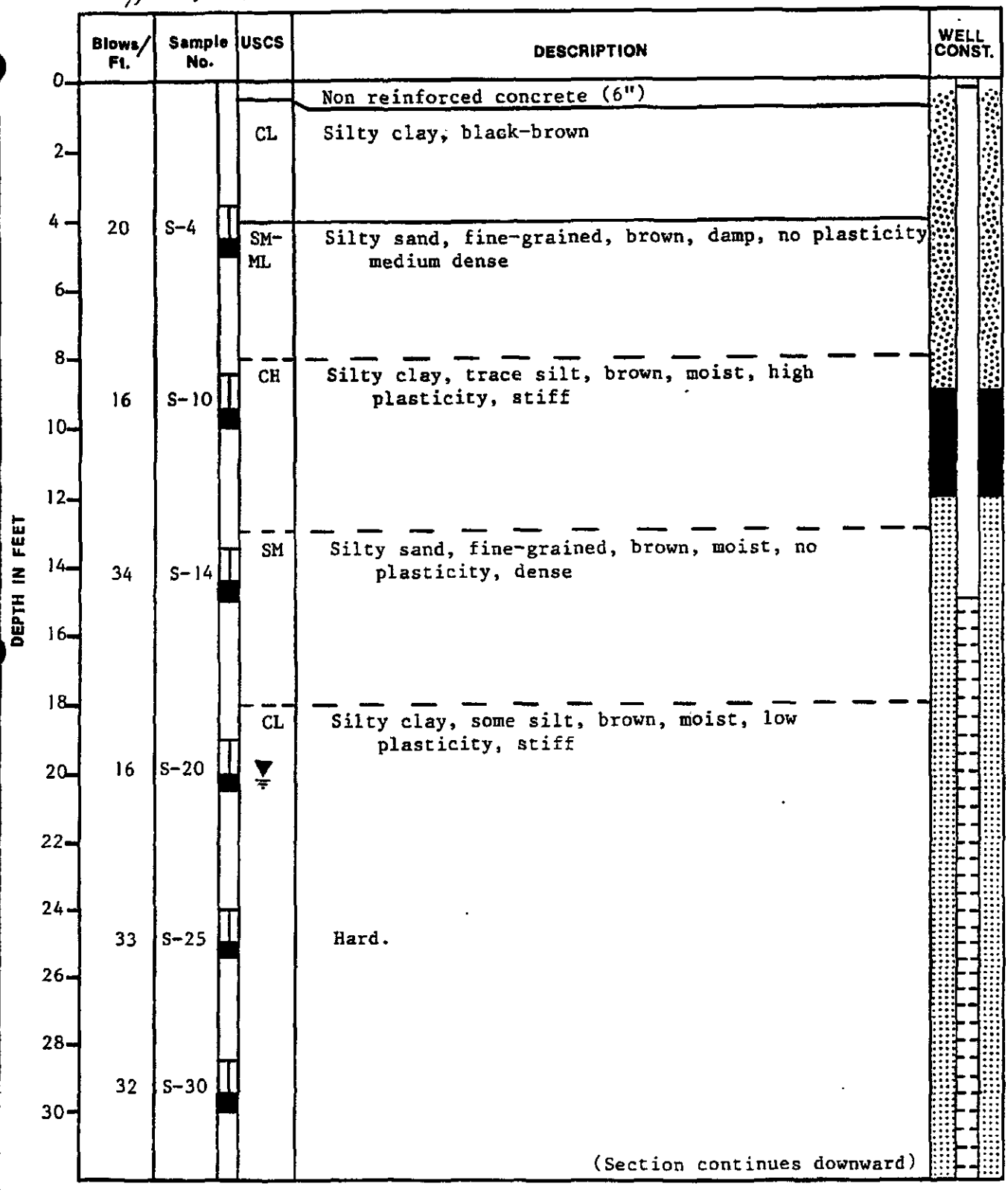
PROJECT NO. AGS 87043-2

GENERALIZED SITE PLAN
UNOCAL Station #4845
Marina Blvd. and Alvarado Street
San Leandro, California

PLATE P-2

01-1350 2S/3W3563

#87110



Applied GeoSystems

PROJECT NO. AGS 87043-2

LOG OF BORING B-1/MW-1

UNOCAL Station #4845
Marina Blvd. and Alvarado Street
San Leandro, California

PLATE P-5

01-1350 2S/3W35G3

#87110

DEPTH IN FEET	Blows/ Ft.	Sample No.	USCS	DESCRIPTION	WELL CONST.
30			CL	Silty clay, some silt, brown, moist, low plasticity hard	
32					
34	7	S-35		Soft	
36					
38					
40	26	S-40		Clay, trace of coarse sand, very stiff.	Caved
42				Total Depth = 42 feet Well terminated due to sufficient depth below ground water and sufficient depth to evaluate contamination.	
44					
46					

Applied GeoSystems
43255 Mission Blvd Suite B Fremont, CA 94539 (415) 651-9866

PROJECT NO. AGS 87043-2

LOG OF BORING B-1/MW-1

UNOCAL Station #4845
Marina Blvd. and Alvarado Street
San Leandro, California

PLATE P-6

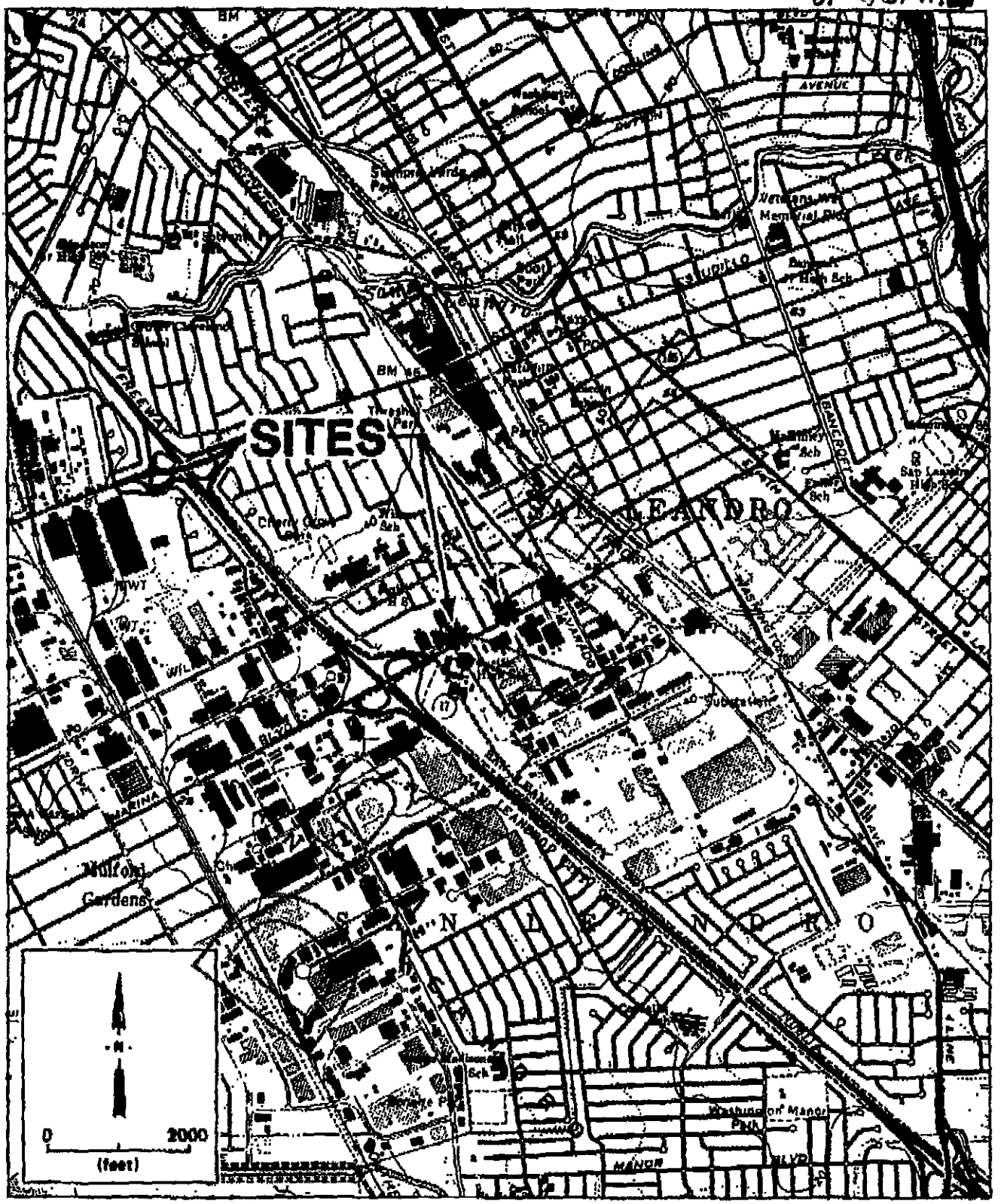
25/3W 35G

Woodward-Clyde Consultants	8910308A Marina Blvd Widening	LOG OF BORING B-1

LOCATION 846 Marina Blvd., San Leandro, CA		ELEVATION AND DATUM	
AGENCY Kvilhaug	DRILLER Rod/Paul	DATE STARTED 10/23/89	
EQUIPMENT B-53		DATE COMPLETED 10/23/89	
METHOD 8"-diam Hollow Stem Auger	DRILL BIT	COMPLETION DEPTH 21.5'	
CASING		SAMPLERS 2-in.-diam.	
PERFORATIONS	FROM TO	NO. OF SAMPLES DIST. 4	UNDIST.
PACK	FROM TO	WATER LEVEL ATD no water	COMPL 24 HR
TYPE OF SEALS	FROM TO	LOGGED BY L. Gruenberg	CHECKED BY Helen Nuckolls
	FROM TO		

DEPTH (FT)	DESCRIPTION	PIEZOMETER INSTALLTION	DEPTH (FT)	SAMPLES	REMARKS (Strength, moisture content, etc.)
5	SILTY CLAY - brown with dark brown patches of silt - moderately stiff - damp		5	18	No response OVA
10	SILTY CLAY - coarse sand and rare gravels to 1/4" - dark brown - moderately stiff - moist		10	9	No response OVA
15	SANDY, CLAYEY SILT - coarse to medium sand - rare gravels to 1/4" - brown - loose - wet		15	22	4 ppm OVA
20	CLAY - some silt - brown with blue-gray mottling - moderately soft - wet		20	14	No response OVA
25			25		Boring terminated at 21.5'

2S/3W 35G
01-451 A1



Project No. 8910308A	Marina Boulevard	LOCATION MAP 846, 1050 and 1200 MARINA BOULEVARD SAN LEANDRO, CALIFORNIA	Figure 1.
Woodward-Clyde Consultants			

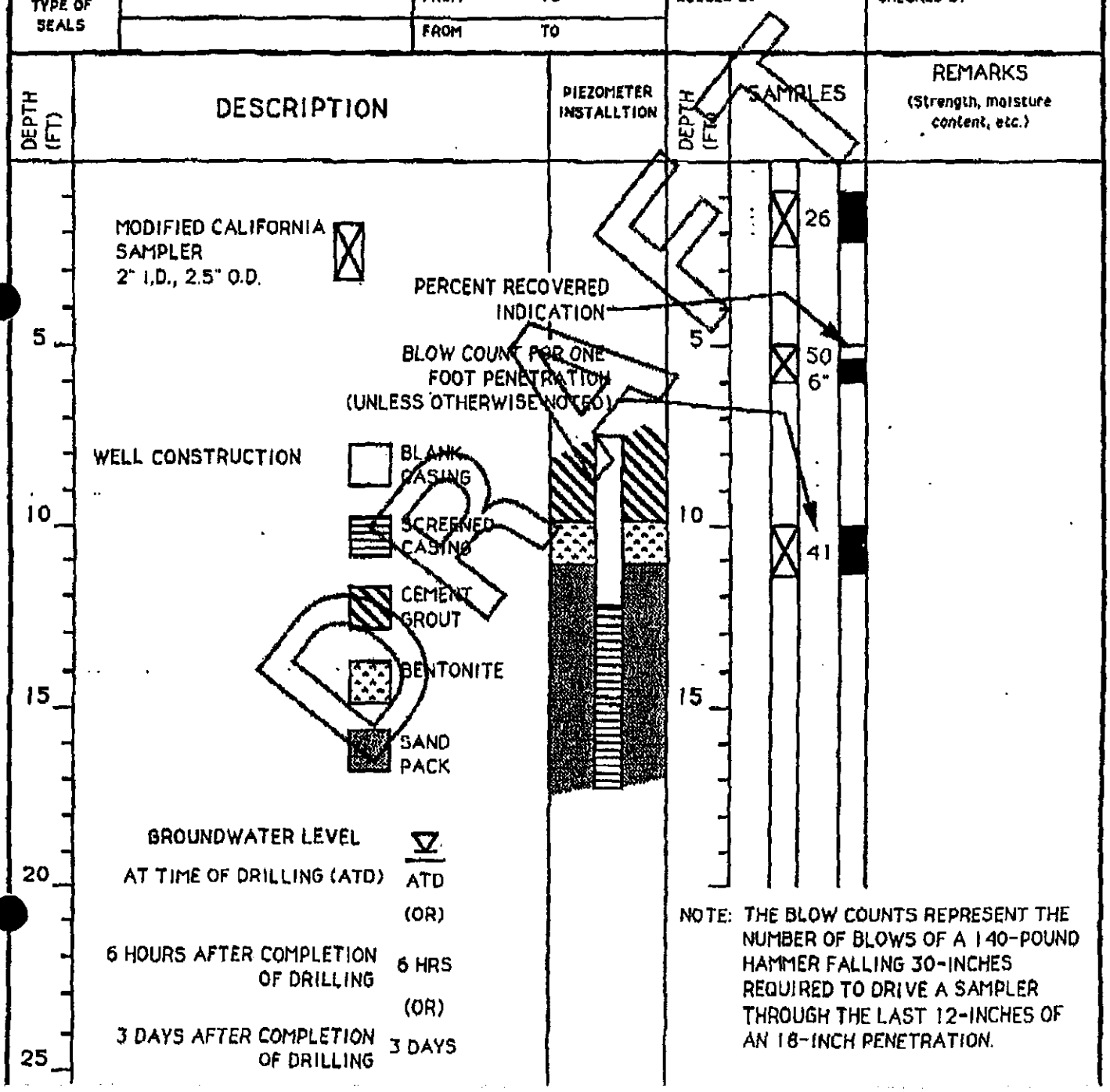
2S/3W 35G

01-451A

Woodward-Clyde Consultants	8910308A-2000 MARINA BLVD WIDENING	LOG OF BORING/WELL LEGEND

LOCATION			ELEVATION AND DATUM			
AGENCY	DRILLER		DATE STARTED			
EQUIPMENT			DATE COMPLETED			
METHOD	DRILL BIT		COMPLETION DEPTH			
CASING			SAMPLERS			
PERFORATIONS	FROM TO		NO. OF SAMPLES	DIST.	UNDIST.	
PACK	FROM TO		WATER LEVEL	ATD	COMPL	24 HR
TYPE OF SEALS	FROM TO		LOGGED BY		CHECKED BY	
	FROM TO					

DEPTH (FT)	DESCRIPTION	PIEZOMETER INSTALLTION	DEPTH (FT)	SAMPLES	REMARKS (Strength, moisture content, etc.)



NOTE: THE BLOW COUNTS REPRESENT THE NUMBER OF BLOWS OF A 140-POUND HAMMER FALLING 30-INCHES REQUIRED TO DRIVE A SAMPLER THROUGH THE LAST 12-INCHES OF AN 18-INCH PENETRATION.

CROSBY & OVERTON, INC.

Environmental Management

8430 Amelia Street
Oakland, California 94621
FAX (415) 633-0759
(415) 633-0336 • (800) 821-0424

(3)

01-420Z
2S/3W 35D7
Inv
Addl

FIELD DRILL // LITHOLOGIC LOG

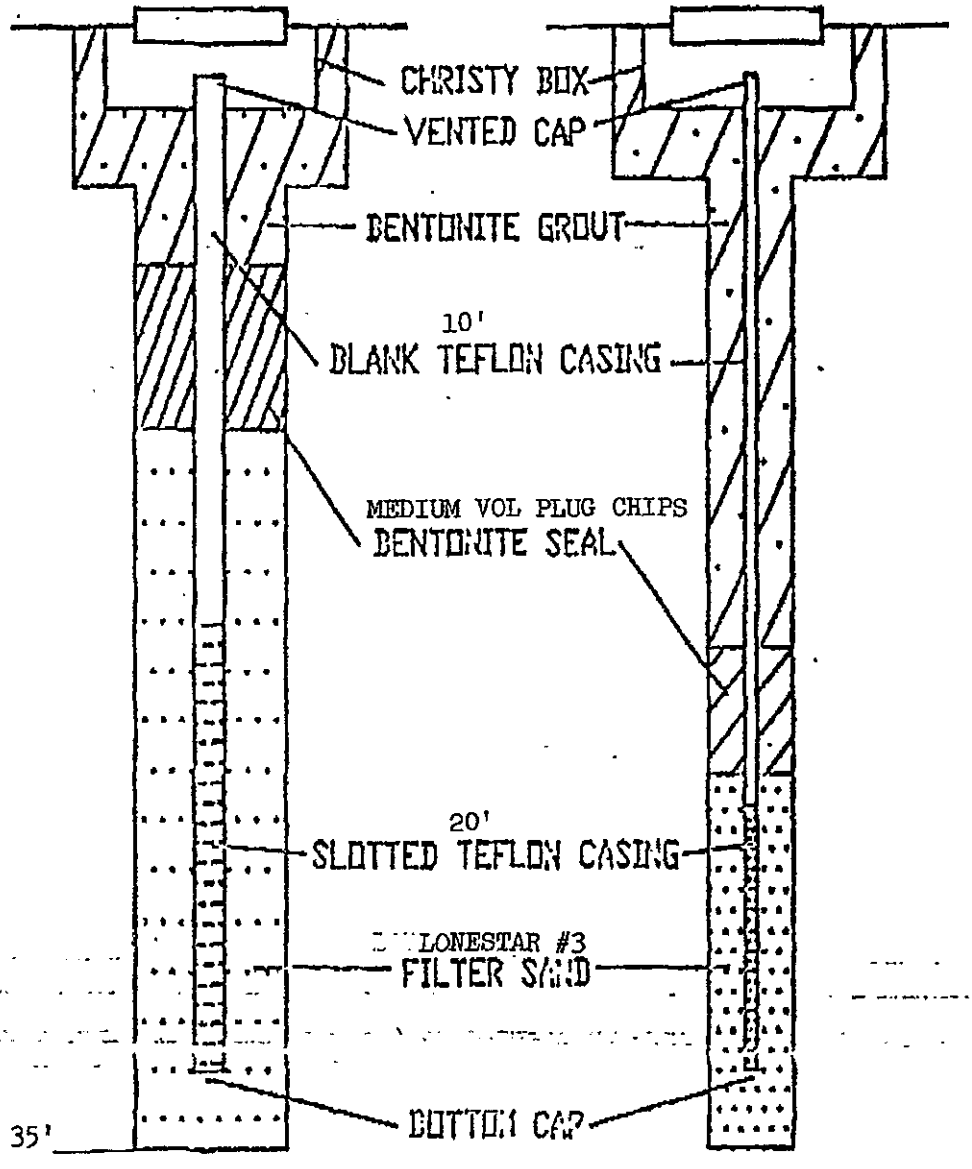
BORING/WELL NUMBER 1

PROJECT DORAL'S REPAIR — OWNER
LOCATION 2151 WAYNE-SAN LEANDRO — PROJECT NUMBER PERMIT 89128
DATE DRILLED 3/3/89 — TOTAL DEPTH OF HOLE 35'
SURFACE ELEVATION 33' — DEPTH TO WATER 16'
SCREEN: DIA. 2" — LENGTH 20' — SLOT SIZE .02 MM
CASING: DIA. 2" — LENGTH 10' — TYPE PVC
DRILLING COMPANY AQUA SCIENCE — DRILL METHOD HOLLOW STEM AUGER
DRILLER JOE — LOG BY DAVE SADOFF

DEPTH (FEET)	WELL CONST: PIPE	WELL CONST: FILL	PID (PPM)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOW	GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
								Light brown sandy clay, abundant pebbles (fill).
								Dark brown silty clay, rare pebbles. Native bay mud.
						9		
10			4184-53			11		Same as above, greenish discoloration
						8		
						5		
			4184-54			6		Same as above, no discoloration
						4		Groundwater at 16'
20								
30								Bottom of borehole
40								

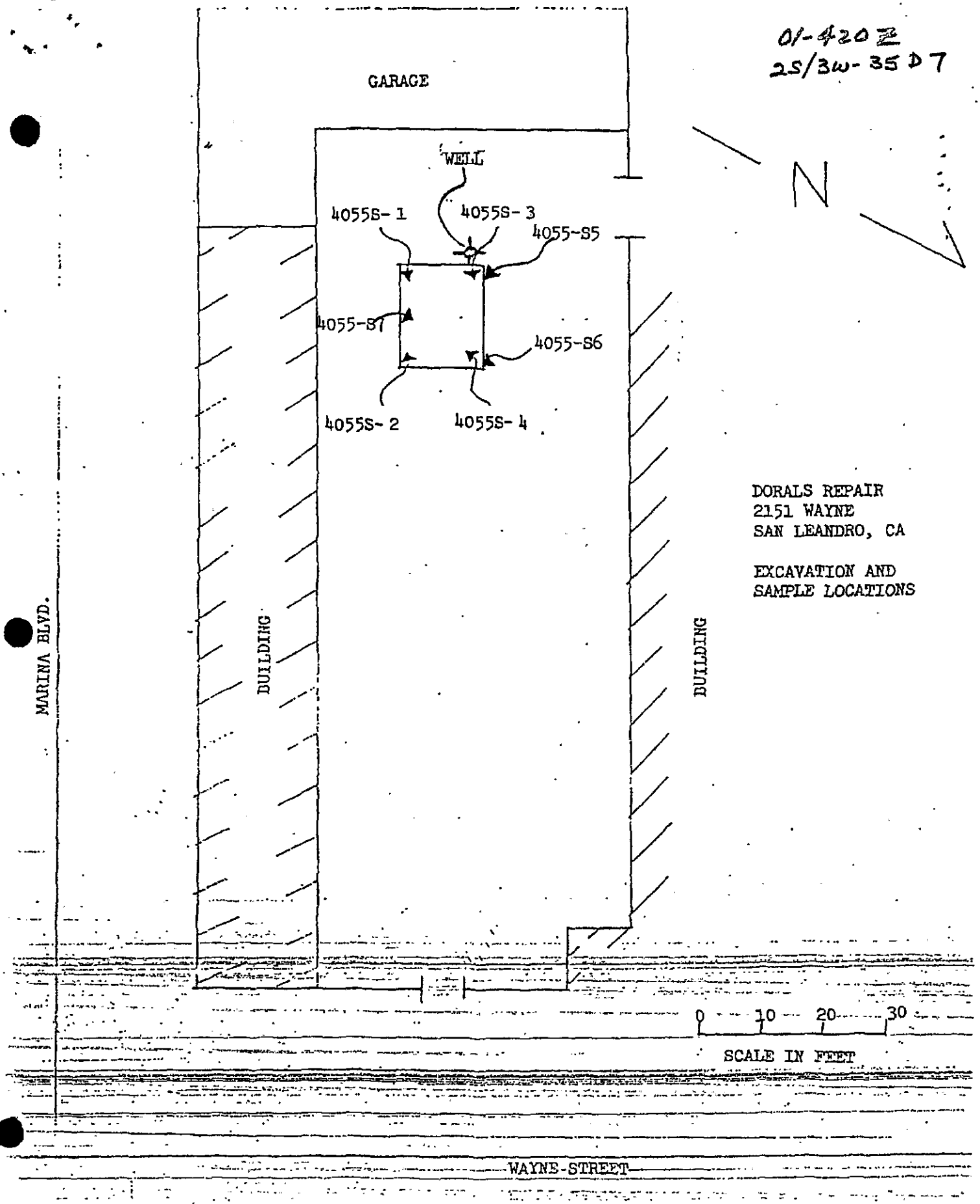
01-420Z
25/3W-35D7

MONITORING WELL PIEZOMETER



Monitoring Well and Piezometer Construction Diagram

01-420 E
2S/3W-35 D 7



DORALS REPAIR
2151 WAYNE
SAN LEANDRO, CA

EXCAVATION AND
SAMPLE LOCATIONS

CROSBY & OVERTON, INC.

Environmental Management

8430 Amelia Street
Oakland, California 94621
FAX (415) 633-0759
(415) 633-0336 • (800) 821-0424

(3)

01-420Z

2S/3W 35D7

Inv

Add'l

FIELD DRILL // LITHOLOGIC LOG

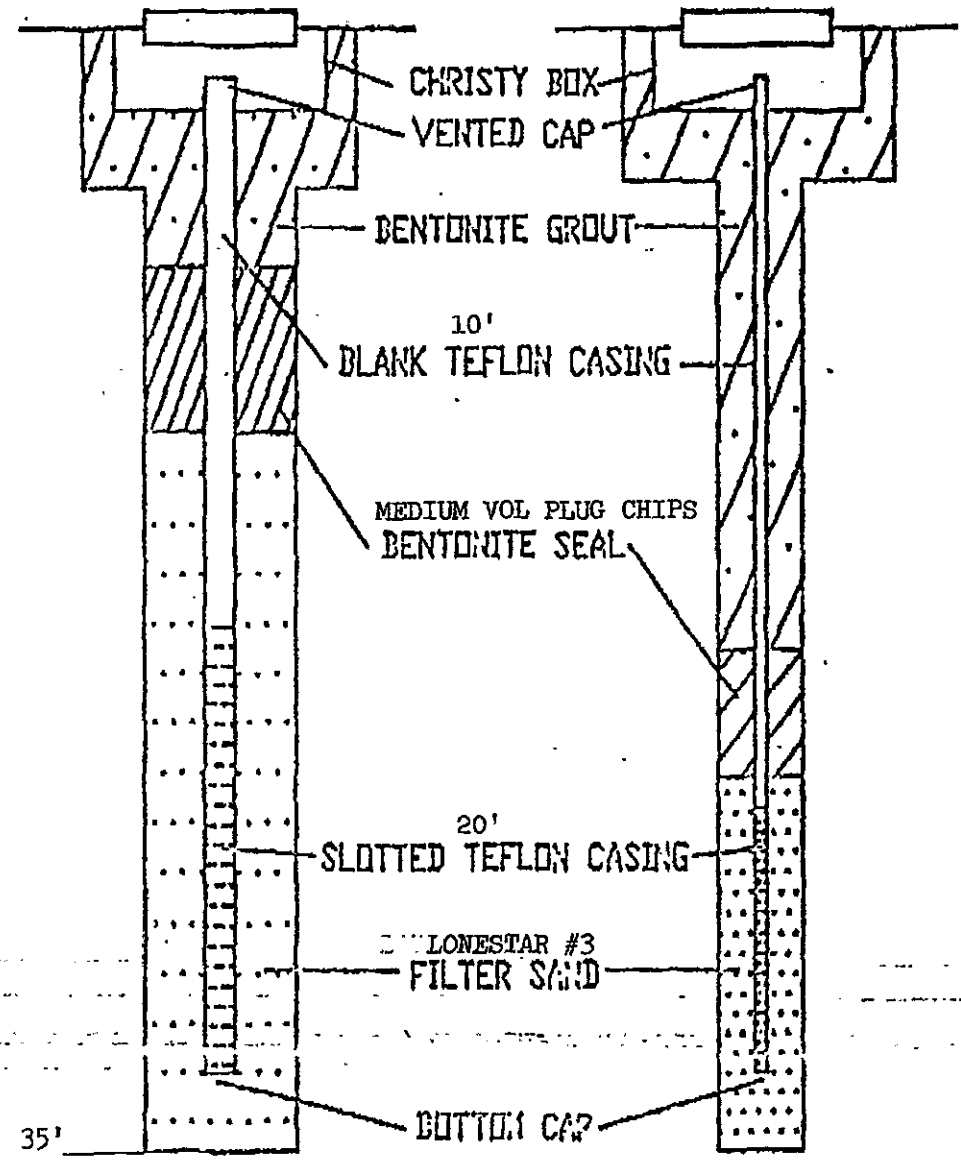
BORING/WELL NUMBER 1

PROJECT DORAL'S REPAIR — OWNER
LOCATION 2151 WAYNE-SAN LEANDRO — PROJECT NUMBER PERMIT 89128
DATE DRILLED 3/3/89 — TOTAL DEPTH OF HOLE 35'
SURFACE ELEVATION 33' — DEPTH TO WATER 16'
SCREEN: DIA. 2" LENGTH 20' SLOT SIZE .02 MM
CASING: DIA. 2" LENGTH 10' TYPE PVC
DRILLING COMPANY AQUA SCIENCE — DRILL METHOD HOLLOW STEM AUGER
DRILLER JOE — LOG BY DAVE SADOFF

DEPTH (FEET)	WELL CONST: PIPE	WELL CONST: FILL	PID (PPM)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOW	GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
								Light brown sandy clay, abundant pebbles (fill).
								Dark brown silty clay, rare pebbles. Native bay mud.
						9		
10			4184-53			11		Same as above, greenish discoloration
						8		
						5		
			4184-54			6		Same as above, no discoloration
						4		Groundwater at 16'
20								
30								Bottom of borehole
40								

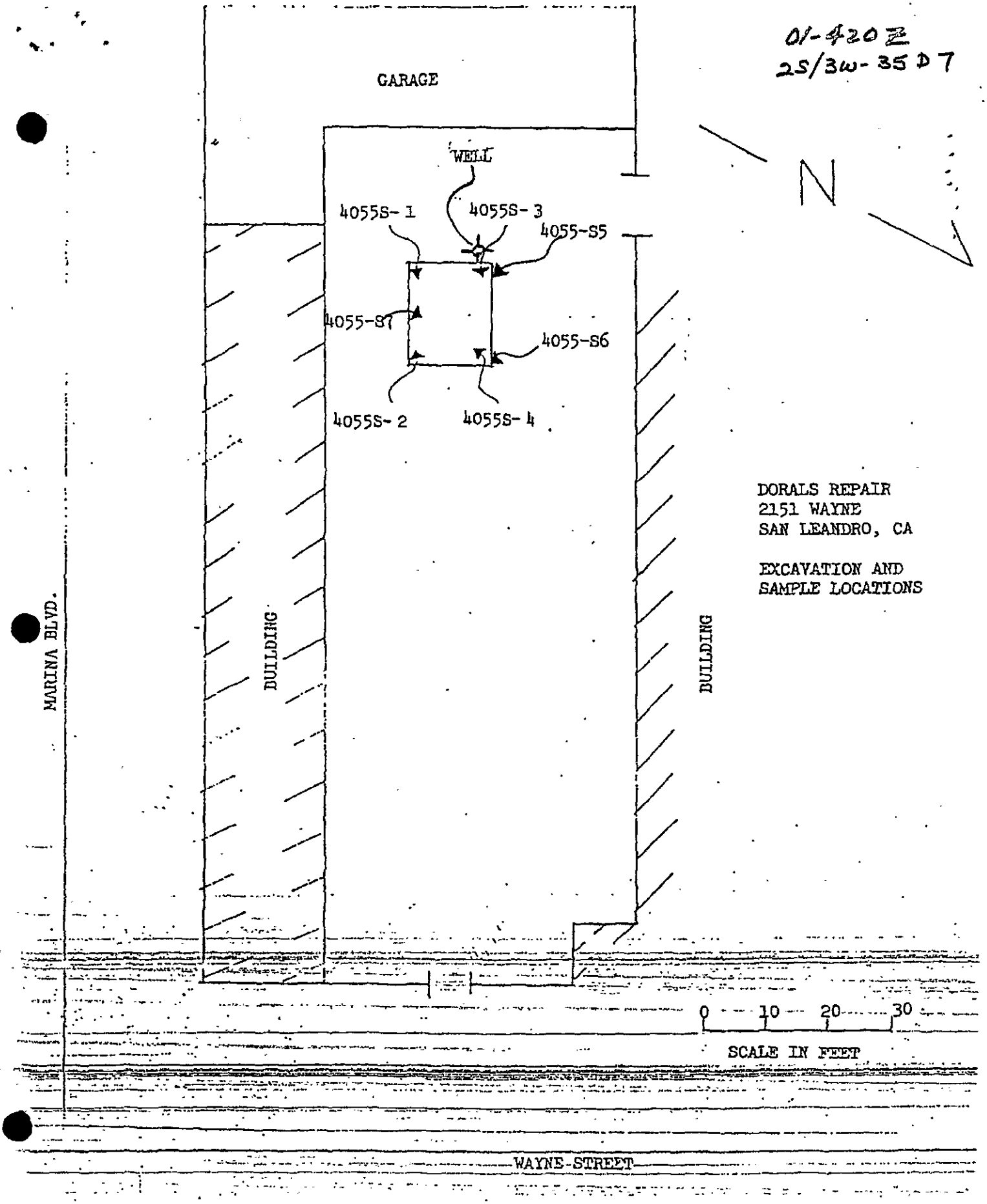
01-420 E
2S/3W-35D7

MONITORING WELL PIEZOMETER



Monitoring Well and Piezometer Construction Diagram

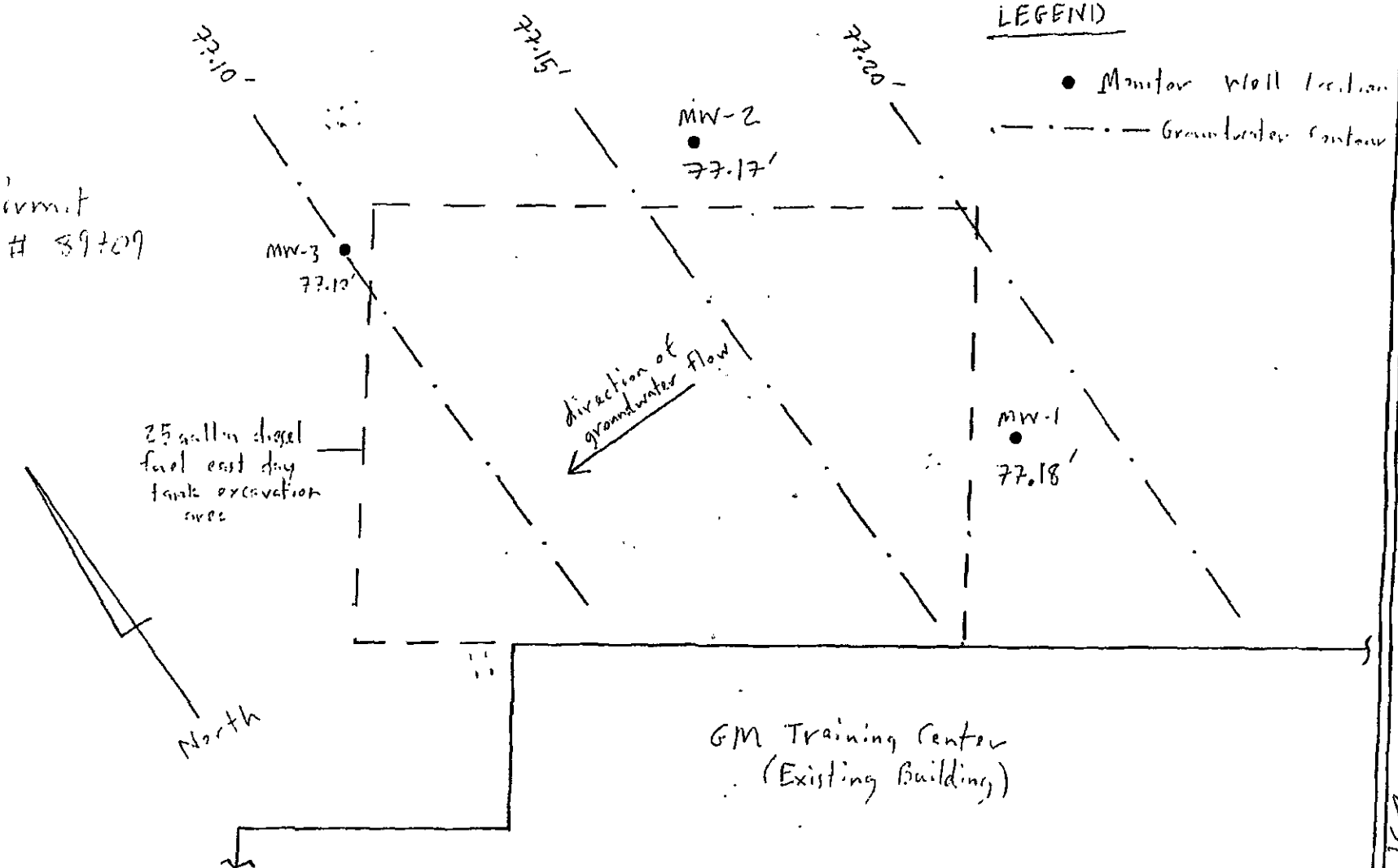
01-420Z
2S/3W-35D7



DORALS REPAIR
2151 WAYNE
SAN LEANDRO, CA

EXCAVATION AND
SAMPLE LOCATIONS

Professional Service Industries



permit # 39709

PROJECT NAME		PROJECT NO.
GM Training Center 1444 Marina Boulevard San Leandro, California	Modified Site Diagram with Groundwater Gradients Note: Not to Scale	378 - DATE 12/6/88

(4)

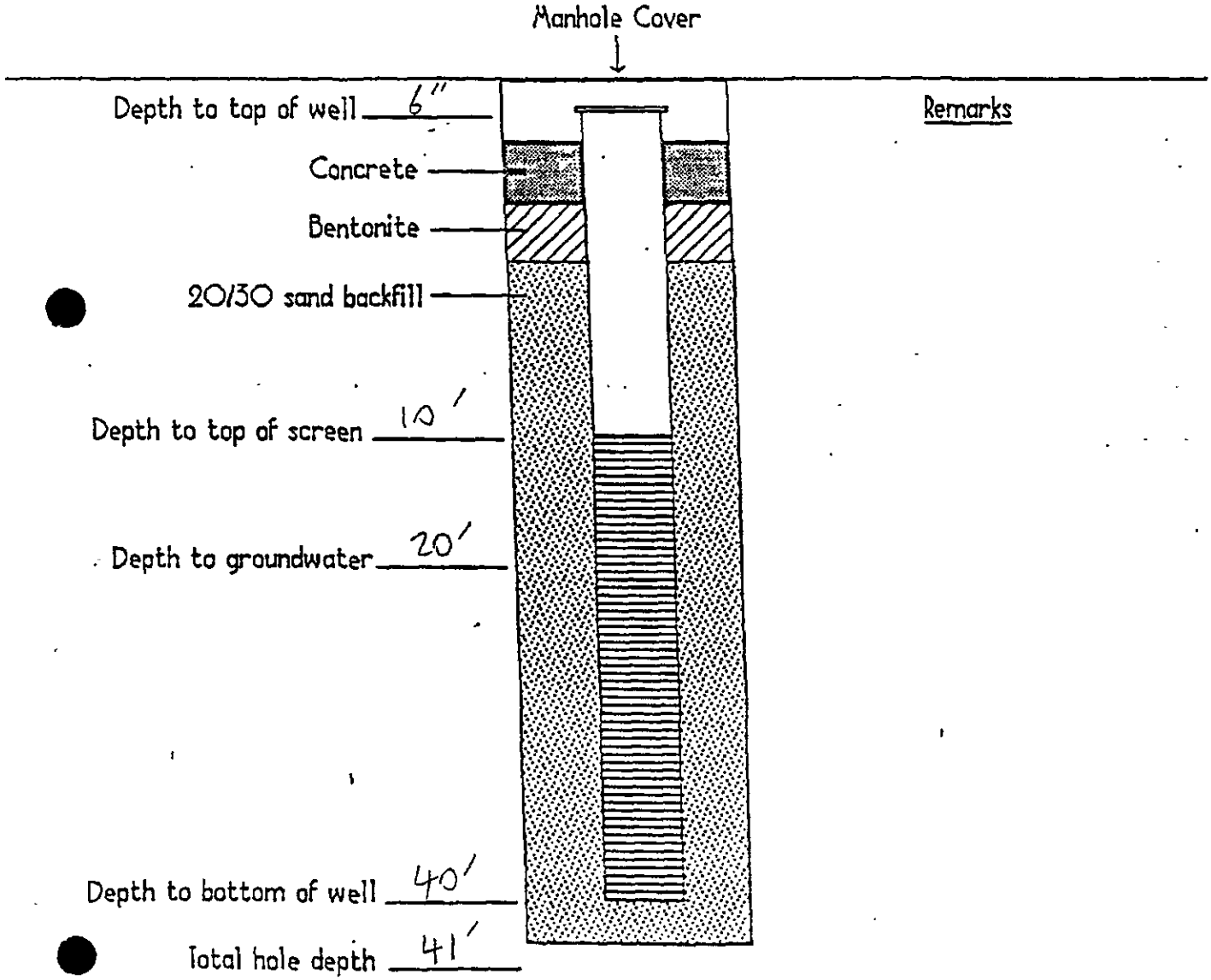
2S/3W 35L

01-452A
2S/3W 35L 1

Professional Service Industries, Inc.

Field Well Completion Report

Well Number: MW-1 through MW-3 PSI Number: 378-9102
Project Location: GM Training Center, 1444 Marina Boulevard, San Leandro, CA.
Well Location: See Site Diagram
Driller: Spectrum Drilling Date Installed: 12/6/89 through 12/7/89
Material: 2" diam. sch. 40 PVC



pg 1 of 1
813-531-1446

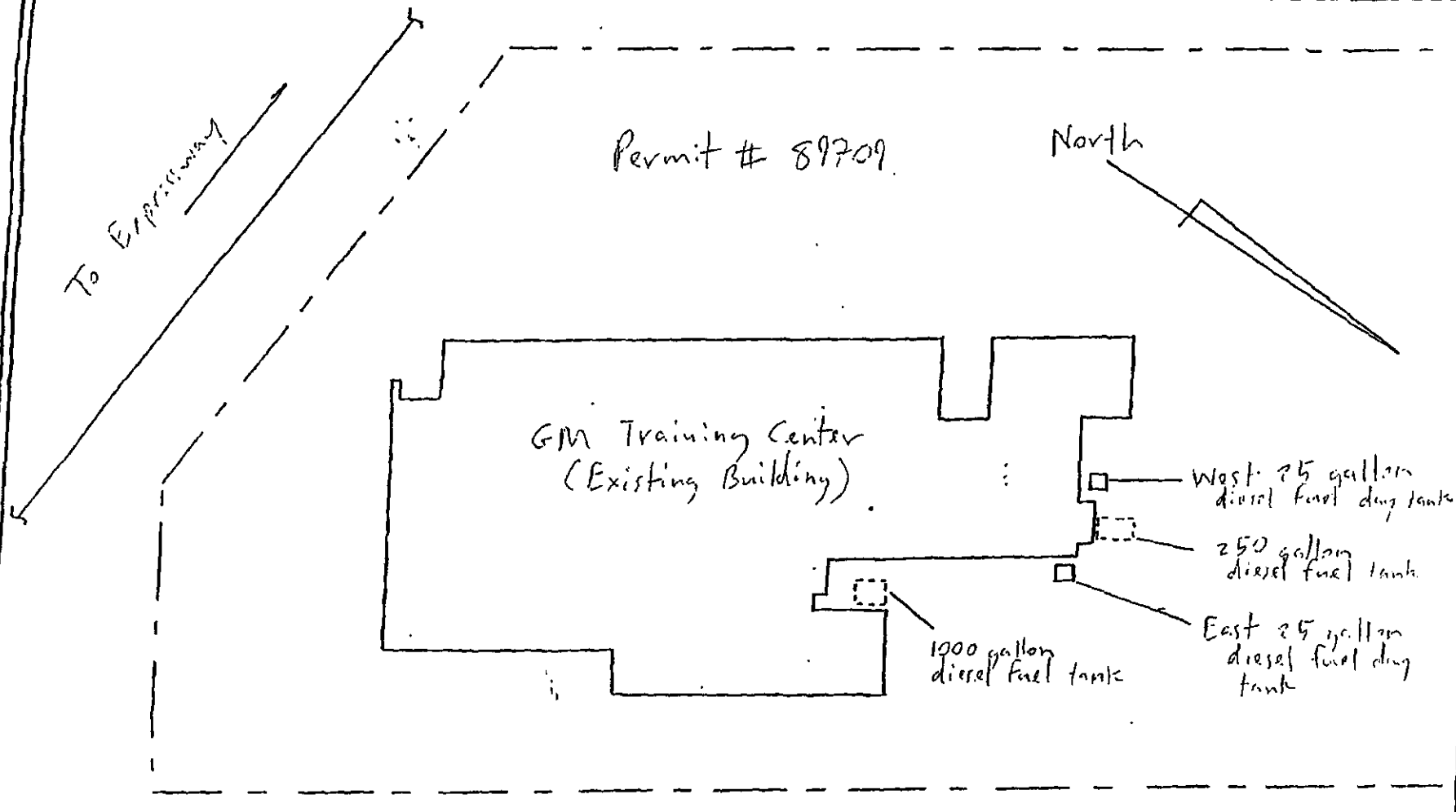
01-453A

PSI PSI 2S/3W 35L1

~~NFS~~ SERVICES, INC.	~~NFS~~ JOB NO. 7-7-
Project: GM Training Center	Client: Argonaut A,E,& C
Technician: Spectrum Drilling	Water Table: 20'
Location: 1444 Marina Boulevard San Leandro, California	Date: 12/7/89 Completion Depth: 40'
Type of Test: BTEX, TPH (diesel)	Test Number: MW-1

ELEV.	DESCRIPTION	DEPTH (FT.)	REMARKS BTEX, TPH (diesel) (in ppm)
	brown Clayey Silt	0–4	BTEX = not detected; TPH = not detected
	grey Clayey Silt	4–10	BTEX = not detected; TPH = not detected
	grey Clayey Silt	10–16	BTEX = not detected; TPH = not detected
	grey Clayey Silt	16–20	BTEX = not detected; TPH = not detected
		20–30	Note: water-saturated soil at 20.5'

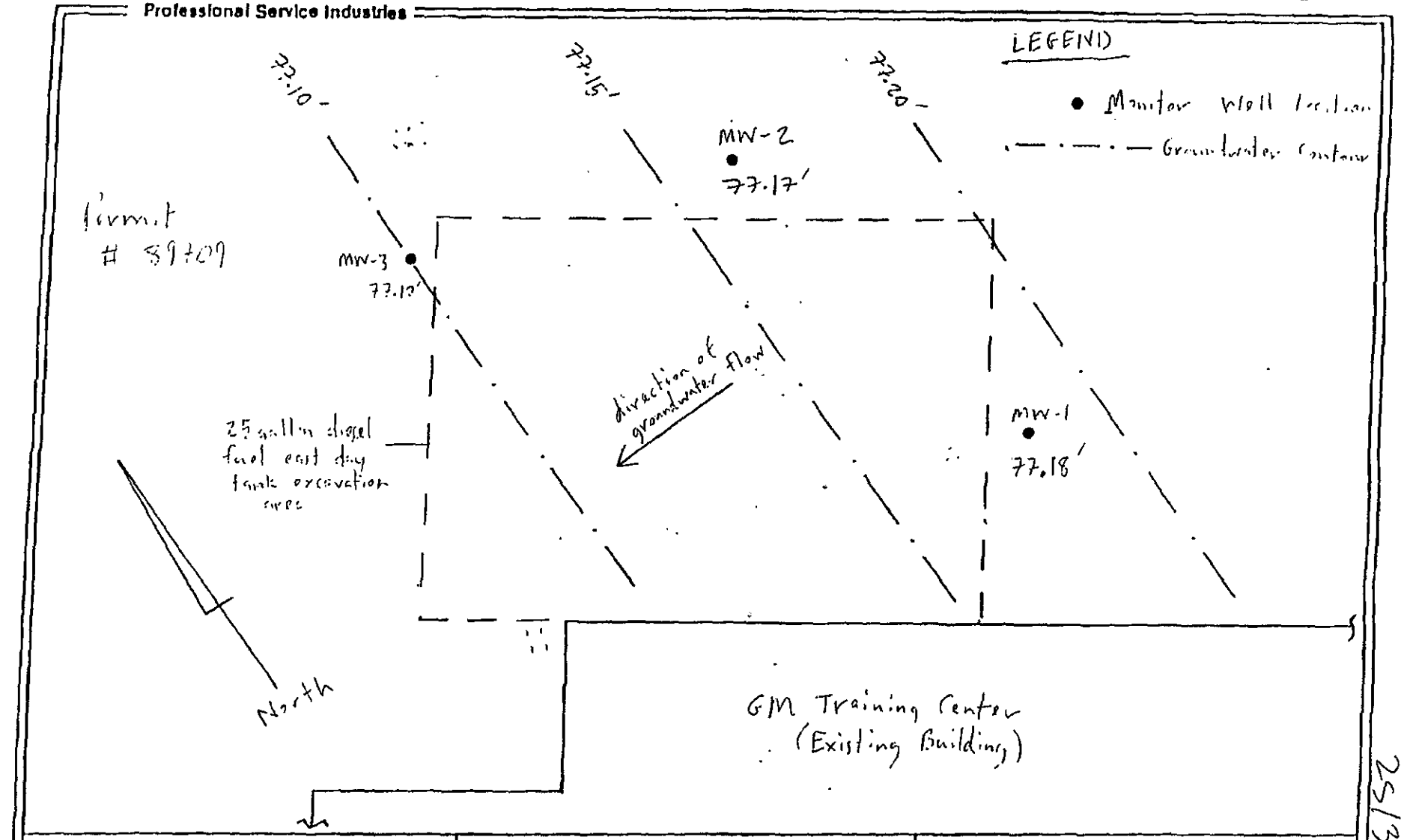
Professional Service Industries



PROJECT NAME		PROJECT NO.
GM Training Center 1414 Marina Boulevard ~~San~~ San Leandro, California	Site Diagram Note: Not to Scale	378- DATE 12/6/89

01-4524
2S/3W 35L1

Professional Service Industries



permit # 89709

PROJECT NAME GM Training Center 1414 Marina Boulevard San Leandro, California	Modified Site Diagram with Groundwater Gradients Note: Not to Scale	PROJECT NO. 378 - DATE 12/6/89

2S/3W 35L

01-452B
2S/3W 35L2

Professional Service Industries, Inc.

Field Well Completion Report

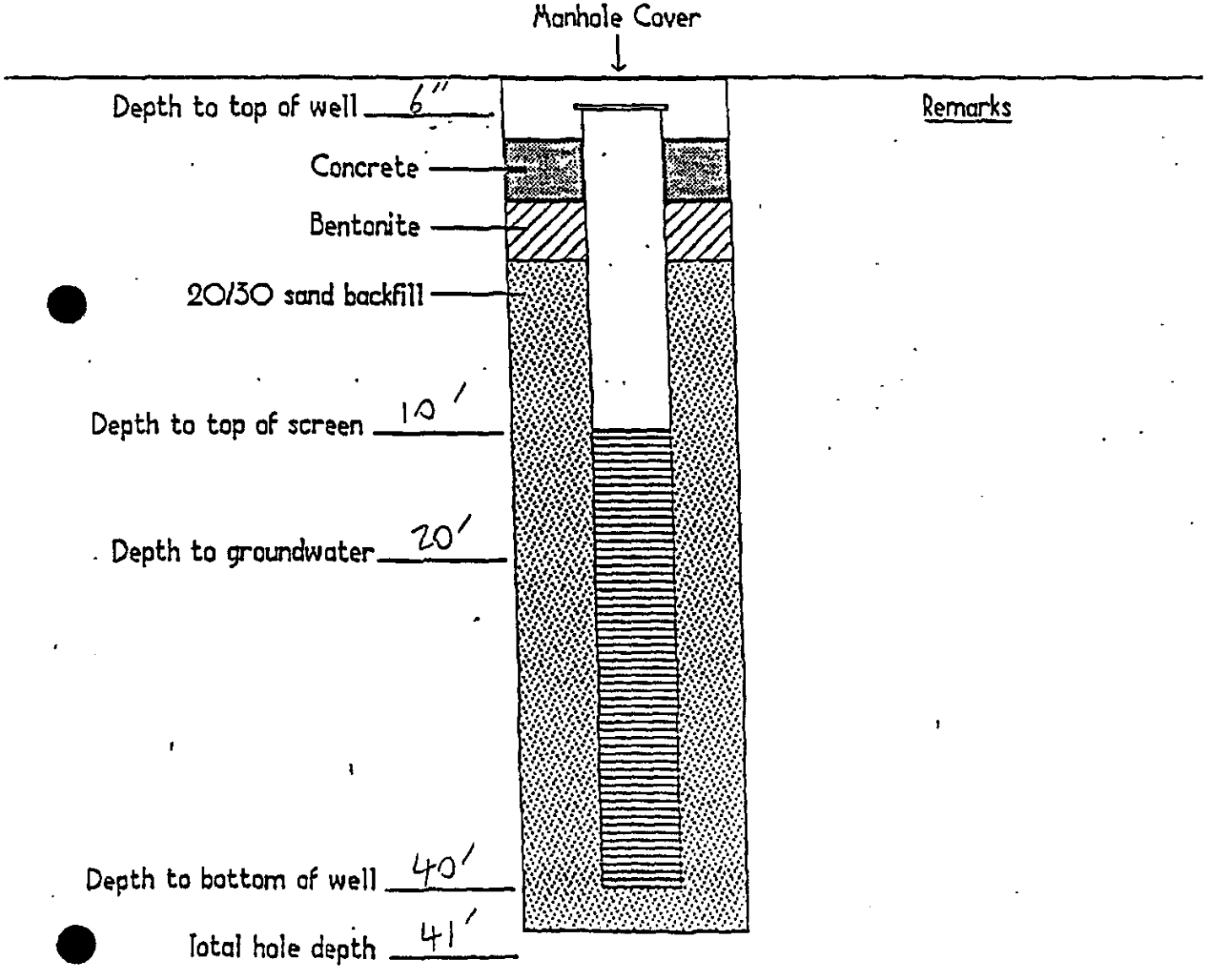
Well Number: MW-1 through MW-3 PSI Number: 378-9102

Project Location: GM Training Center, 1444 Marina Boulevard, San Leandro, CA.

Well Location: See Site Diagram

Driller: Spectrum Drilling Date Installed: 12/6/89 through 12/7/89

Material: 2" diam. sch. 40 PVC



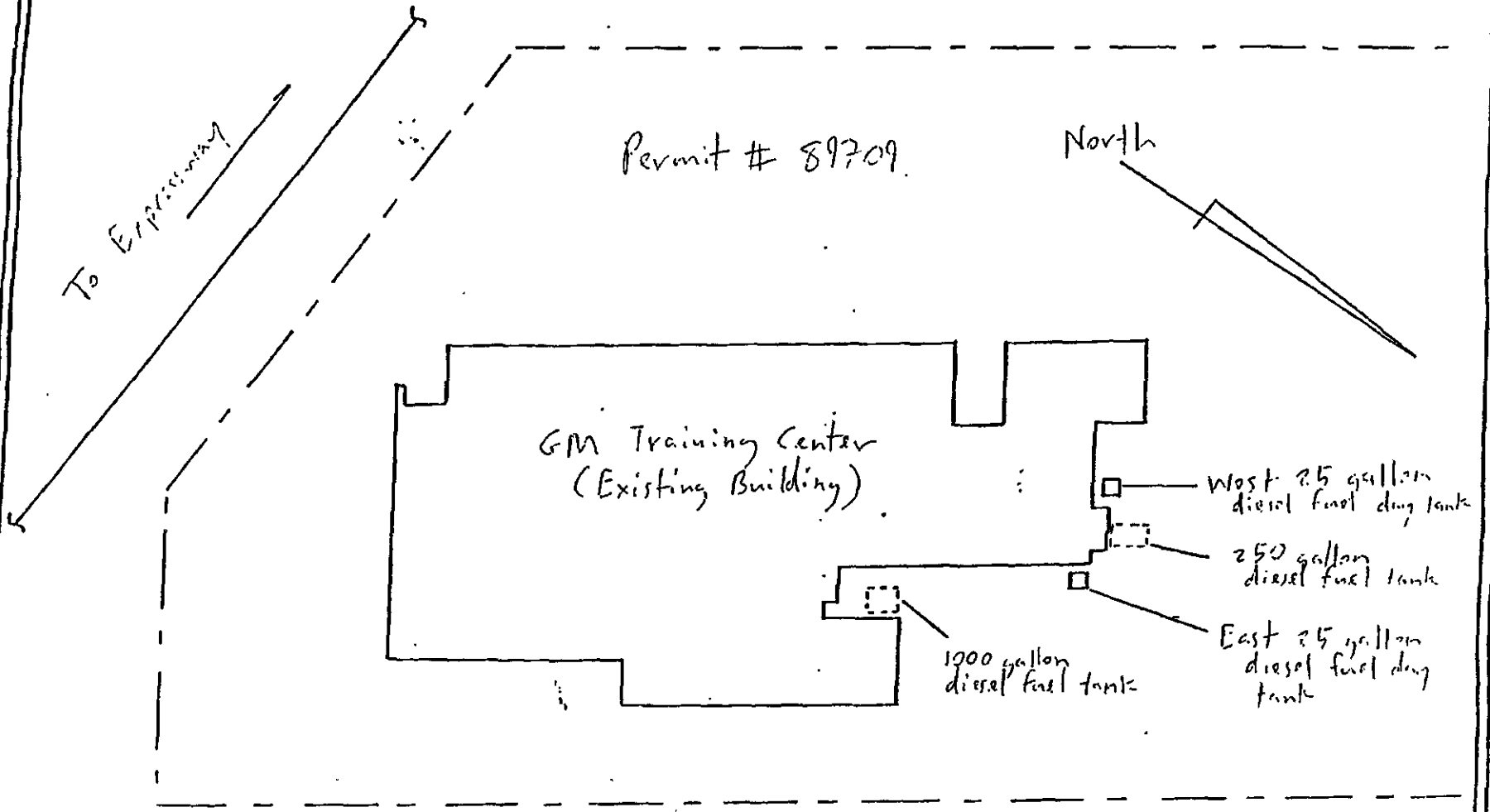
point
813-531-1446

PSI PSI 2S/3W 35L2

~~NFS~~ SERVICES, INC.	~~NFS~~ JOB NO. 7227-01-452B
Project: GM Training Center	Client: Argonaut A,E,& C
Technician: Spectrum Drilling	Water Table: ·20′
Location: 1444 Marina Boulevard San Leandro, California	Date: 12/7/89 Completion Depth: 40′
Type of Test: BTEX, TPH (diesel)	Test Number: MW-2

ELEV.	DESCRIPTION	DEPTH (FT.)	REMARKS BTEX, TPH (diesel) (in ppm)
	brown Clayey Silt	0–4	BTEX = not detected ; TPH = 32.22 ppm
	brownish grey Clayey Silt	4–10	BTEX = not detected ; TPH = not detected
	brown Clayey Silt	10–16	BTEX = not detected ; TPH = not detected
	grey Clayey Silt	16–20	BTEX = not detected ; TPH = not detected
		20–30	Note: water-saturated soil at ·20.5′

Professional Service Industries

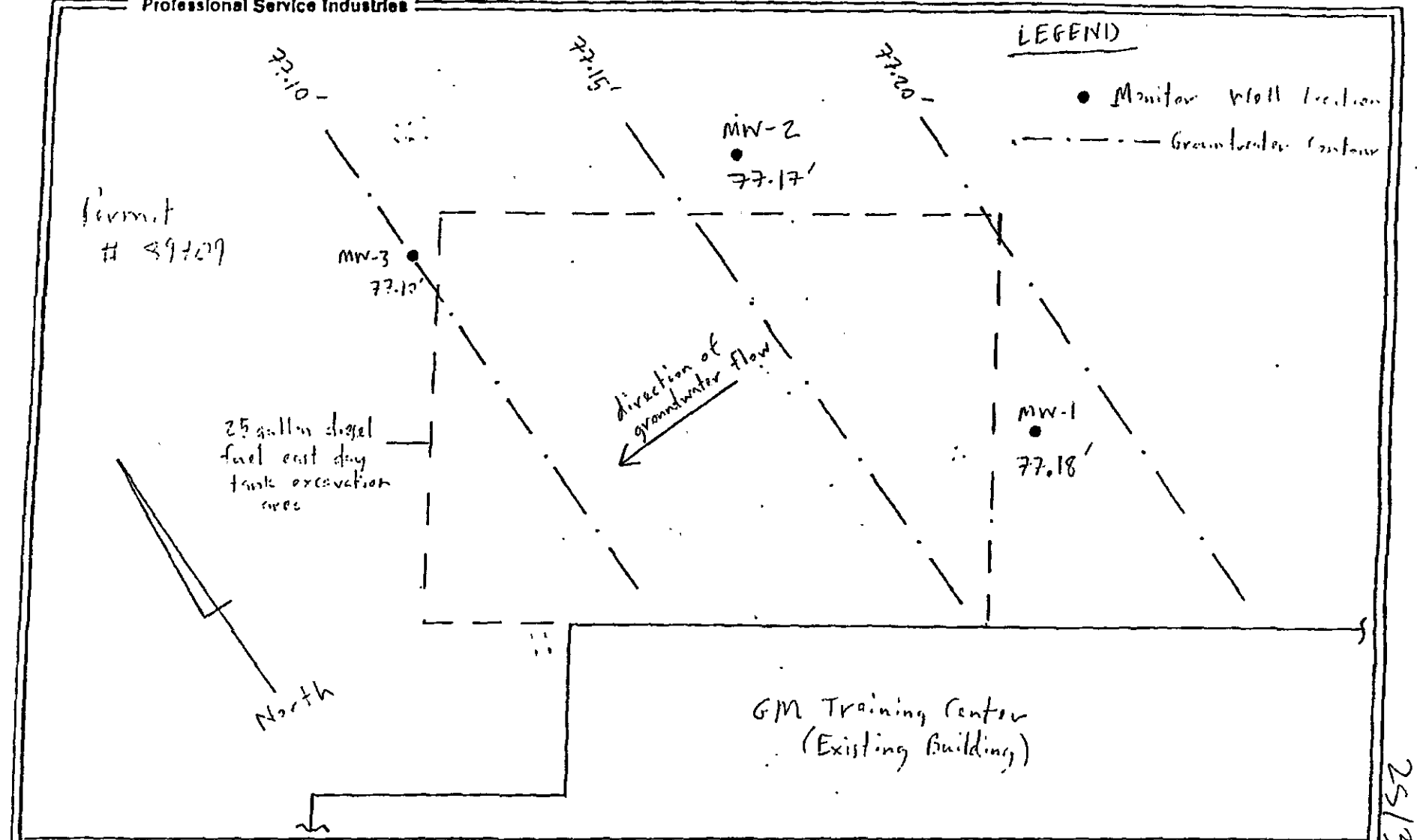


PROJECT NAME		PROJECT NO.
GM Training Center 1414 Marina Boulevard San Leandro, California	Site Diagram Note: Not to Scale	378- DATE 12/6/89

01-4520
2S/3W 35L-2

ms

Professional Service Industries



PROJECT NAME		PROJECT NO.
GM Training Center- 1414 Marina Boulevard San Leandro, California	Modified Site Diagram with Groundwater Gradients Note: Not to Scale	378- DATE 12/6/88

25/3W 35L2

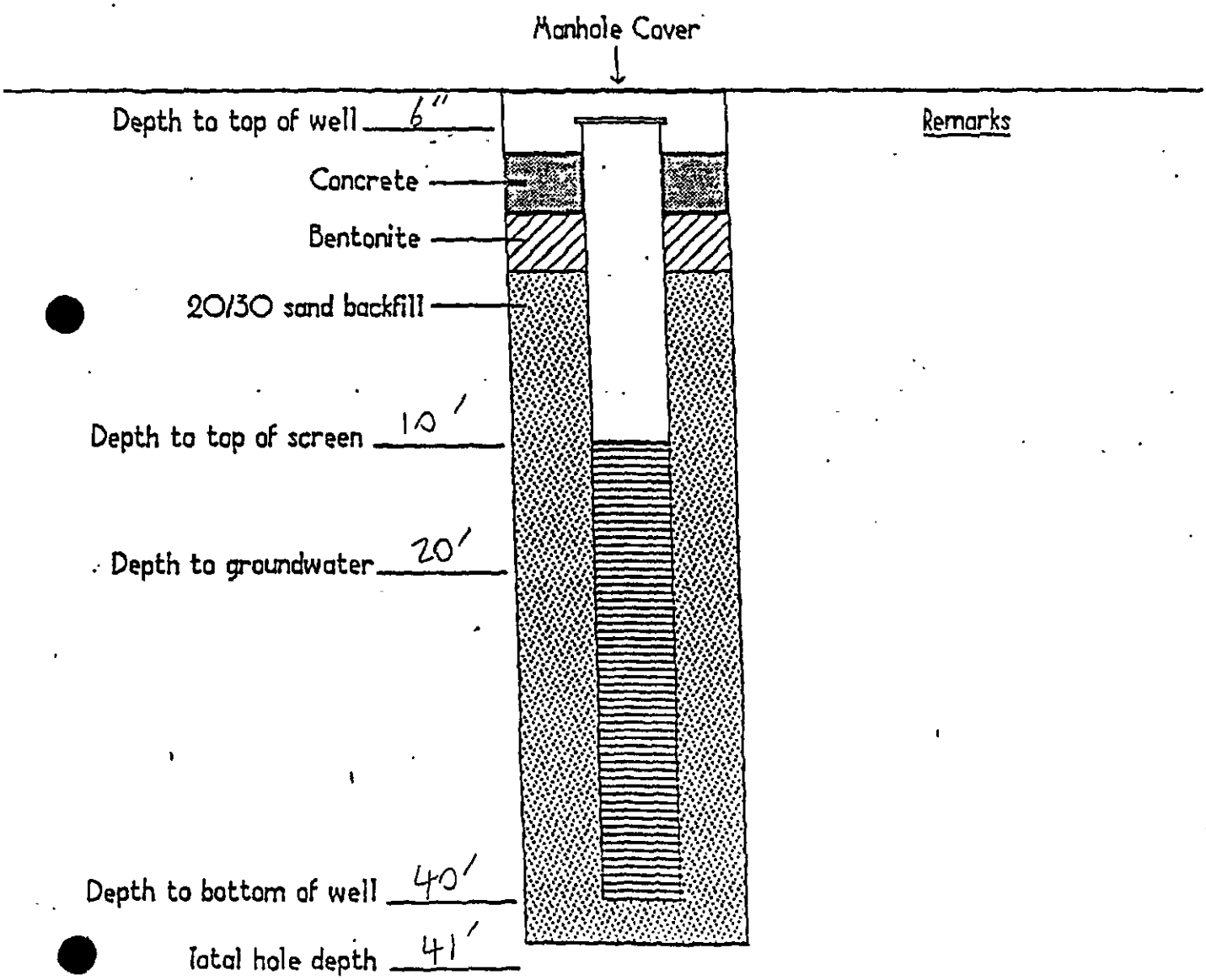
01-4520

01-4520
2S/3W 35L3

Professional Service Industries, Inc.

Field Well Completion Report

Well Number: MW-1 through MW-3 PSI Number: 378-9102
Project Location: GM Training Center, 1444 Marina Boulevard, San Leandro, CA.
Well Location: See Site Diagram
Driller: Spectrum Drilling Date Installed: 12/6/89 through 12/7/89
Material: 2" diam. sch. 40 PVC



Plant
813-531-1446

01-4520

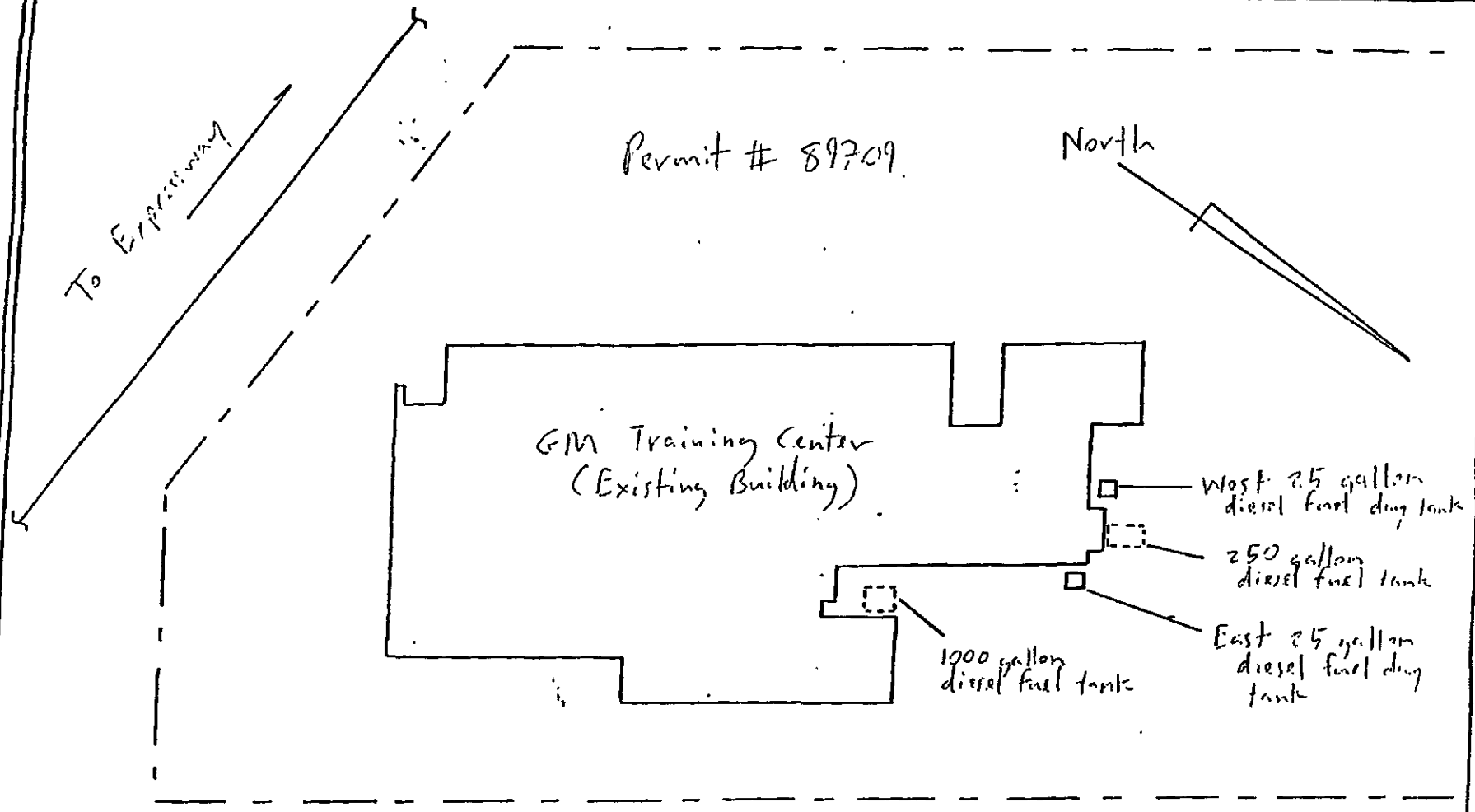
PSI

PSI 2S/3W 35L3

~~NFS~~ SERVICES, INC.	~~NFS~~ JOB NO. 7?:-
Project: GM Training Center	Client: Argonaut A.E.&C
Technician: Spectrum Drilling	Water Table: 20'
Location: 1444 Marina Boulevard San Leandro, California	Date: 12/7/89 Completion Depth: 40'
Type of Test: BTEX, TPH (diesel)	Test Number: MW-3

ELEV.	DESCRIPTION	DEPTH (FT.)	REMARKS BTEX, TPH (diesel) (in ppm)
	rusty brown Silty Gravel	2, 4, 6, 8	BTEX = not detected; TPH = not detected
	grey Silty Clay	10, 12	BTEX = not detected; TPH = not detected
	grey Silty Clay	14, 16, 18	BTEX = not detected; TPH = not detected
	grey Silty Clay	20, 22, 24, 26, 25, 30	BTEX = not detected; TPH = not detected Note: water-saturated soil at 20.5'

Professional Service Industries

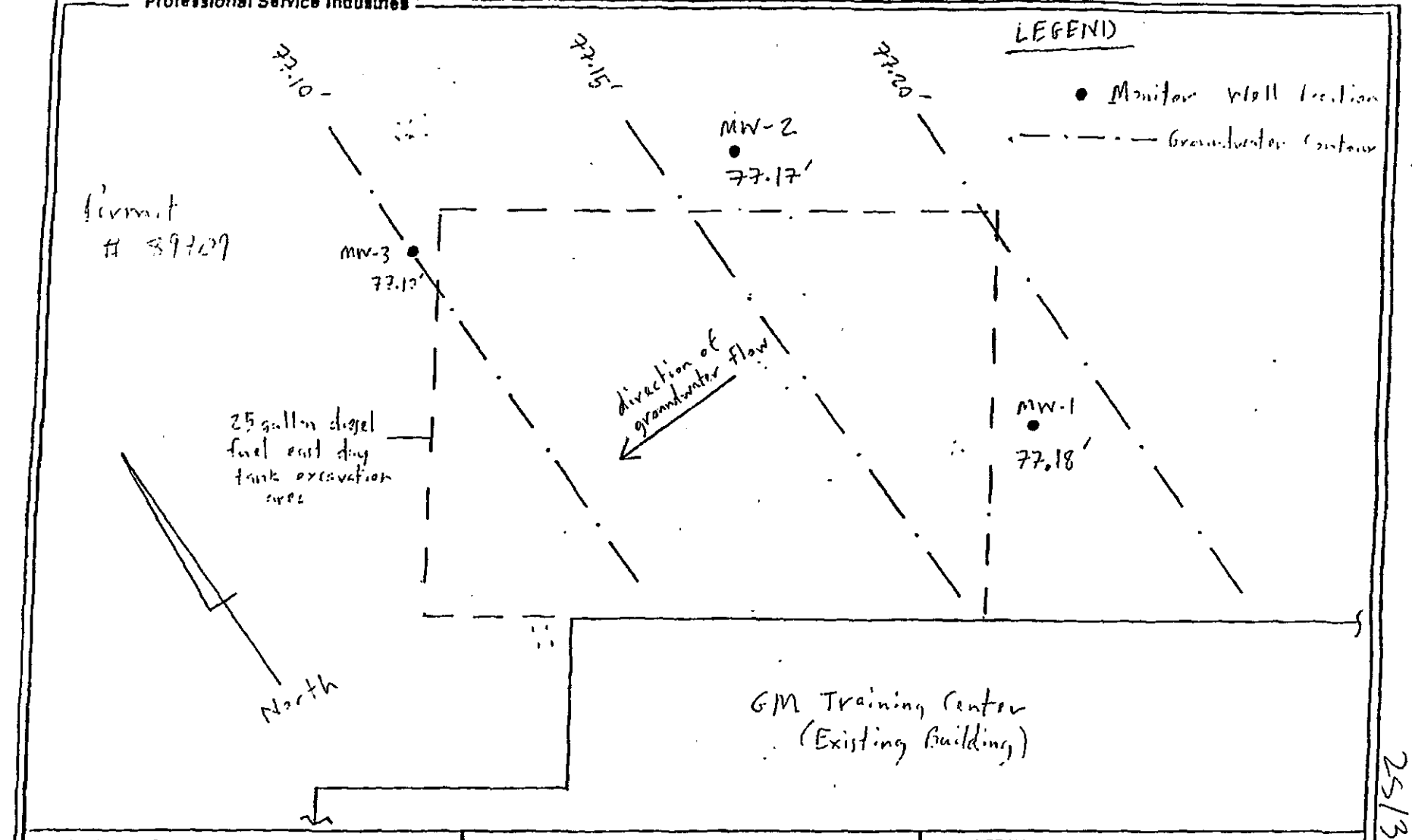


PROJECT NAME		PROJECT NO.
GM Training Center 1414 Marina Boulevard San Leandro, California	Site Diagram Note: Not to Scale	378- DATE 12/6/89

25/3W 35L3

01-4520

Professional Service Industries



Permit # 37429

PROJECT NAME		PROJECT NO.
GM Training Center 1414 Marina Boulevard San Leandro, California	Modified Site Diagram with Groundwater Gradients Note: Not to Scale	378- DATE 12/6/88

25/3W 35L3

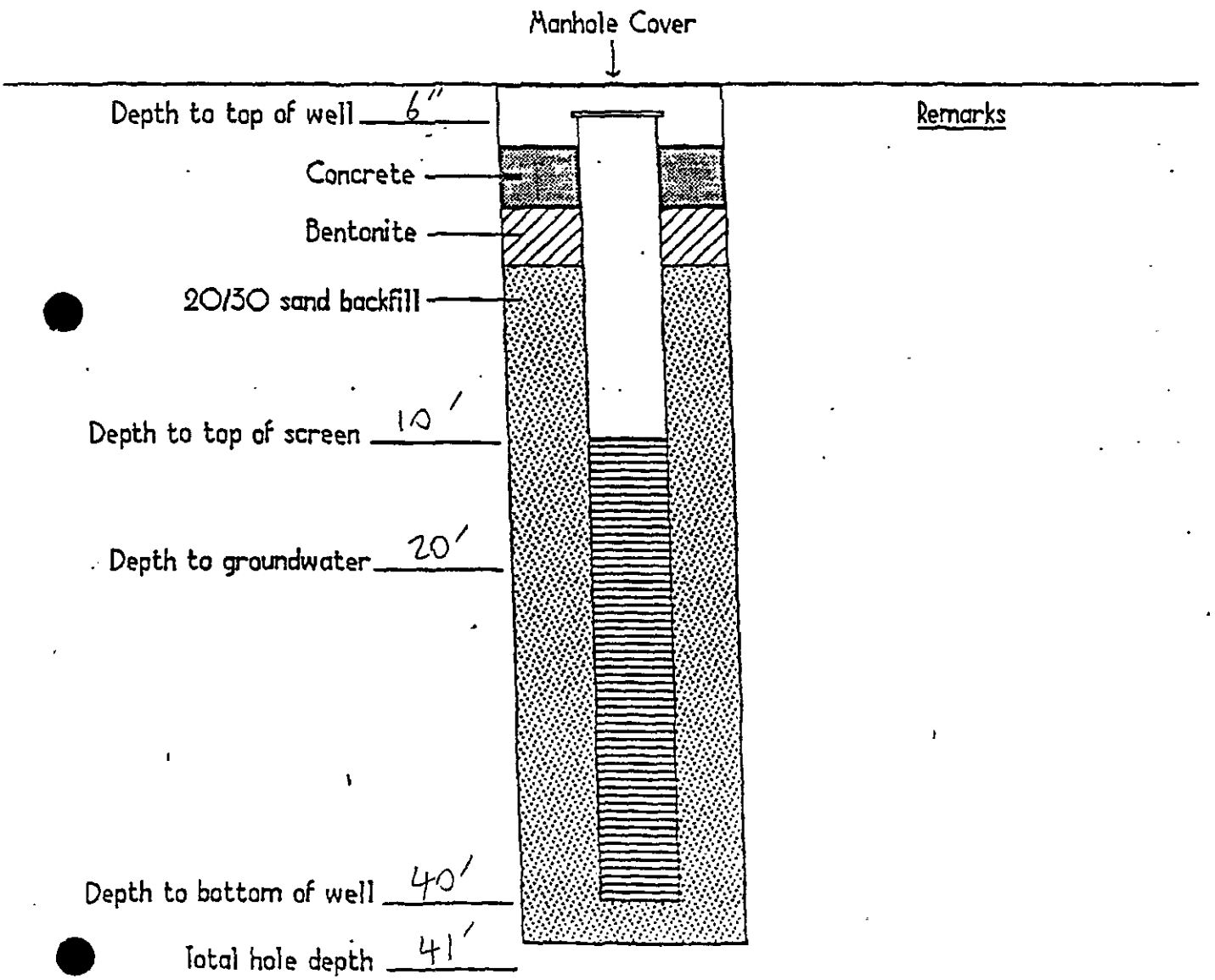
OU4522

(4) 01-452A
2S/3W 35L 1

Professional Service Industries, Inc.

Field Well Completion Report

Well Number: MW-1 through MW-3 PSI Number: 378-9102
Project Location: GM Training Center, 1444 Marina Boulevard, San Leandro, CA.
Well Location: See Site Diagram
Driller: Spectrum Drilling Date Installed: 12/6/89 through 12/7/89
Material: 2" diam. sch. 40 PVC



p 9 of 9
813-531-1446

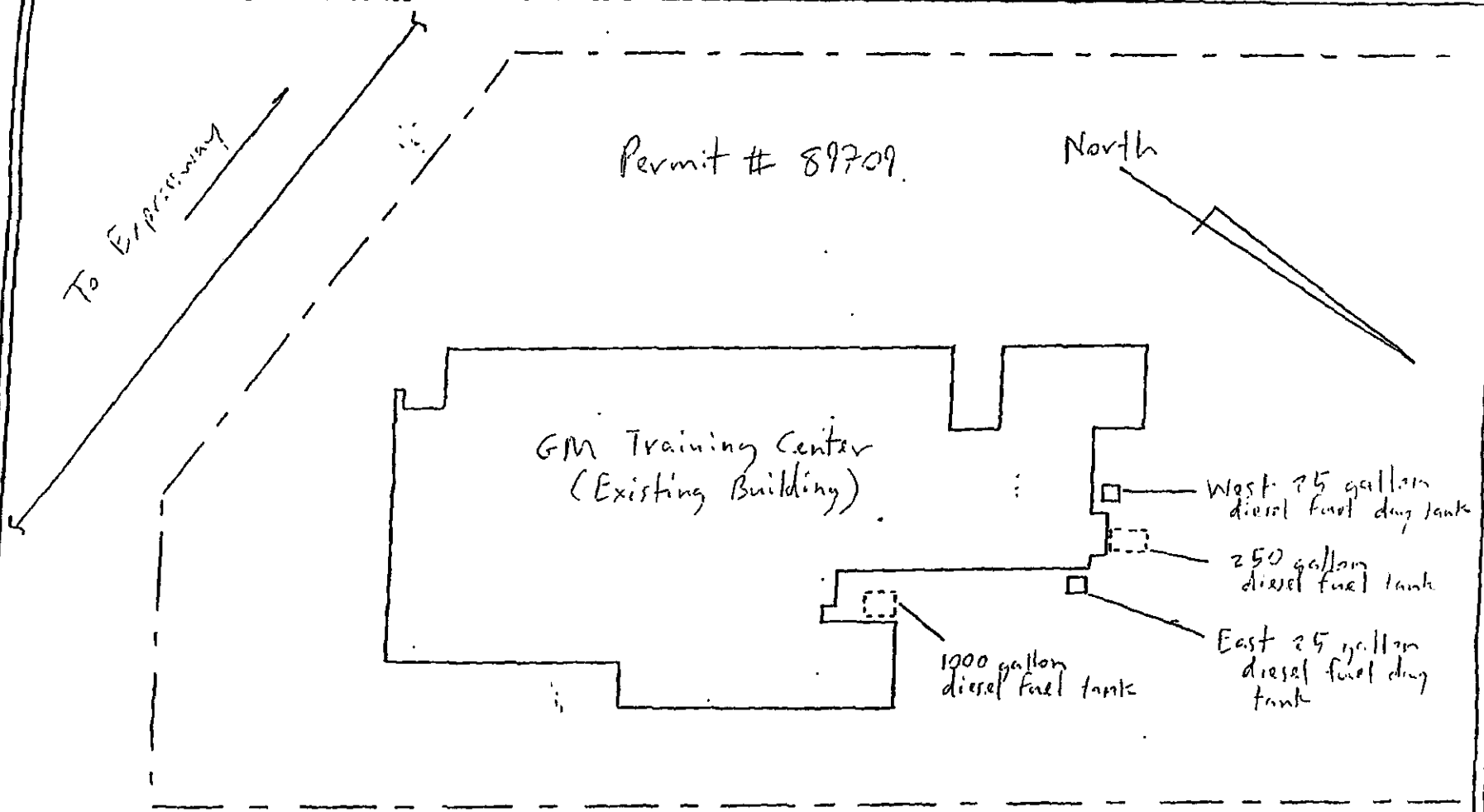
01-4524

PSI PSI 2S/3W 35L1

~~NFS~~ SERVICES, INC.	~~NFS~~ JOB NO. 22-
Project: GM Training Center	Client: Argonaut A,E,& C
Technician: Spectrum Drilling	Water Table: 20'
Location: 1444 Marina Boulevard San Leandro, California	Date: 12/7/89 Completion Depth: 40'
Type of Test: BTEX, TPH (diesel)	Test Number: MW-1

ELEV.	DESCRIPTION	DEPTH (FT.)	REMARKS BTEX, TPH (diesel) (in ppm)
	brown Clayey Silt	0–4	BTEX = not detected; TPH = not detected
	grey Clayey Silt	6–10	BTEX = not detected; TPH = not detected
	grey Clayey Silt	12–16	BTEX = not detected; TPH = not detected
	grey Clayey Silt	18–22	BTEX = not detected; TPH = not detected
		24–30	Note: water-saturated soil at 20.5'

Professional Service Industries



PROJECT NAME		PROJECT NO.
GM Training Center 1414 Marina Boulevard ~~San~~ San Leandro, California	Site Diagram Note: Not to Scale	378- DATE 12/6/89

01-452A
2S/3W 35L1

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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WELL COMPLETION REPORT
(WELL LOGS)

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CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

427175 025 03W 35L22

BASELINE
5900 Hollis Street, Suite D
Emeryville, CA 94608
(415) 420-8686

DRILLING LOG

Location	Safeway, 1111 Marina Boulevard, San Leandro	Boring No.	MW-S4
Driller	Clear Heart Construction	Project No.	S9178-B0
Method	Hollow-stem, continuous flight	Date	2/27/92
Logger	WKS Datum 32.74 ft. msl Bore size 8 inch	Casing size	2 inch

Depth	Graphic	Lithology	Notes
0		Concrete slab	
1	GW	Reddish brown, sandy GRAVEL, baserock	
		Very dark gray to black, silty CLAY, medium-high plasticity, soft, damp	
2	CH		
3	CH	Very dark brown, sandy CLAY, trace gravel, medium plasticity, firm, damp	
4			
	CL	Brown, sandy clayey SILT/sandy silty CLAY, medium to low plasticity, firm, damp	
5			
			3-4-7
6			
7	SW	Yellowish brown, silty, gravelly SAND, very fine-grained, subangular clasts, ¼ to ½ inch diameter, loose, damp	
8	CH	Brown, slightly mottled, sandy CLAY, trace of gravel, high plasticity, very fine-grained, rounded clasts, soft, moist	
9			
10			3-3-3

Scale: 1 inch = 1.5 feet

(S9178-S4.log-3/24/92)

Signature

427175 02S02W35L21M

BASELINE
5900 Hollis Street, Suite D
Emeryville, CA 94608
(415) 420-8686

DRILLING LOG

Location	Safeway, 1111 Marina Boulevard, San Leandro	Boring No.	MW-S4
Driller	Clear Heart Construction	Project No.	S9178-B0
Method	Hollow-stem, continuous flight	Date	2/27/92
Logger	WKS Datum 32.74 ft. msl Bore size 8 inch	Casing size	2 inch

Depth	Graphic	Lithology	Notes
10			
11	CH		
12		Yellowish brown, silty CLAY, slightly mottled, medium- to low-plasticity, soft to firm, some interbedding 1-2 inch thick of gravelly sand, moist-very moist	
13	CL		3-4-7
14 ▼			
15			1-2-3
16			
17			
18	CH	Brown, silty CLAY, trace of gravel, medium- to high-plasticity, firm, moist	2-3-8
19		T.D. = 19.5 ft.	
20			

Scale: 1 inch = 1.5 feet

(S9178-S4.log-3/24/92)

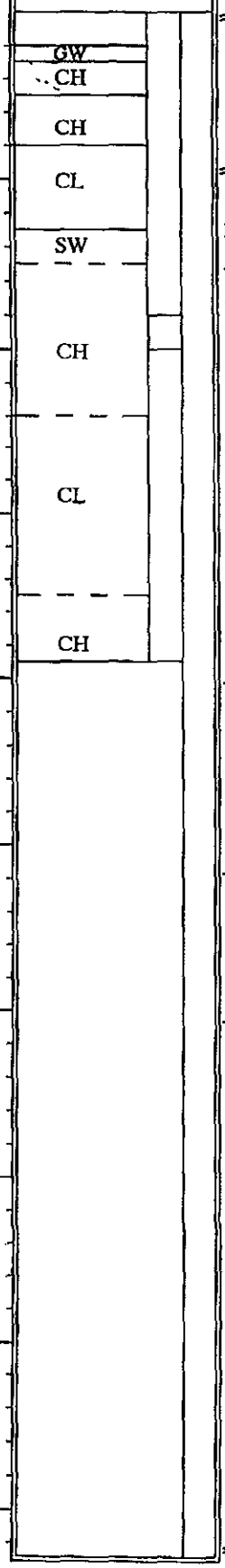
Signature _____

427175 2S02W35L21M

WELL CONSTRUCTION SUMMARY

Project No.: S9178-B0 Well No: MW-S4

Project Name: Safeway
Location: 1111 Marina Boulevard
San Leandro, CA
Date: 2/27/92
Personnel: WKS
Driller: Clear Heart Construction



DRILLING SUMMARY

Drill Rig: Deep rock, 10K
Auger/Bits: Hollow-stem, continuous flight
Drilling Fluid: None
Boring Diameter (inch): 8
Boring Depth (feet): 19.5
Surface Completion: Traffic rated Christy box
Ground Surface Elevation (feet): 32.74
TOC Elevation (feet): 32.49

WELL DESIGN

Basis: X Geologic Log ___ Geophysical Log

Casing Diameter (inch)	Material + Length (feet)	Slot Size	Interval (feet bgs)
2	PVC-8'	--	-0.3-1
2	PVC	--	1-11
2	PVC	0.01"	11-19
Centralizer None			
Filter Material Lonestar #2/16			10-19.5
Bentonite			9-10
Cement			0-9

WATER LEVELS

	Date	Time	Depth (ft bgs)
During Drilling:	2/27/92	9:15	14.0
After completion:	N/A	N/A	N/A
Before development:	3/09/92	10:34	13.68

COMMENTS

CONSTRUCTION TIME LOG

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling:	2/27/92	09:00	2/27/92	10:00
Geophys Logging:				
Casing:	2/27/92	10:05	2/27/92	10:10
Filter Placement:	2/27/92	10:10	2/27/92	10:50
Cementing:	2/27/92	11:20	2/27/92	11:45
Development:	3/09/92	10:40	3/09/92	11:48
Other:				

WELL DEVELOPMENT

Method: Double-diaphragm pump Date: 03/09/92

Time	Gallons	Appearance
10:40	3	Very turbid
10:50	7	Very turbid, well ran dry
11:26	7	Slightly turbid
11:37	9.5	Very slightly turbid
11:48	12	Clear

BASELINE Environmental Consulting
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Emeryville, CA 94608
(415) 420-8686

Signature:

[Scale: 1 inch=5 feet]

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

427176

025 03W 35L22

BASELINE
5900 Hollis Street, Suite D
Emeryville, CA 94608
(415) 420-8686

DRILLING LOG

Location	Safeway, 1111 Marina Boulevard, San Leandro	Boring No.	MW-S5
Driller	Clear Heart Construction	Project No.	S9178-B0
Method	Hollow-stem, continuous flight	Date	2/27/92
Logger	WKS Datum 32.02 ft. msl Bore size 8 inch	Casing size	2 inch

Depth	Graphic	Lithology	Notes
0		Asphalt top	
1	GW	Reddish brown, sandy GRAVEL, dry, baserock	
2	CH	Very dark gray to black, silty CLAY, trace of gravel, medium-high plasticity, soft-firm, damp	
3			
4			
5	SC	Brown, clayey silty SAND, trace of gravel Very fine grained, subangular gravel clasts, up to ½ inch diameter, damp-moist	1-3-2
6			
7			
8		Brown, slightly mottled, clayey SAND, trace of coarse-grained sand, low plasticity, rounded sand grains, vein-lets, moist	
9	SC		2-4-4
10			

Scale: 1 inch = 1.5 feet

(S9178-S5.log-3/24/92)

Signature Jane Medlar

427176

02S03W35L22M

BASELINE
5900 Hollis Street, Suite D
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(415) 420-8686

DRILLING LOG

Location	Safeway, 1111 Marina Boulevard, San Leandro	Boring No.	MW-S5
Driller	Clear Heart Construction	Project No.	S9178-B0
Method	Hollow-stem, continuous flight	Date	2/27/92
Logger	WKS Datum 32.02 ft. msl Bore size 8 inch	Casing size	2 inch

Depth	Graphic	Lithology	Notes
10			
11	SC		
12	CL/ML	Yellowish brown, slightly mottled, silty CLAY/clayey SILT, low plasticity, moist	
13			2-3-5
▼		Yellowish brown, silty SAND, very fine- to fine-grained with some gravel interbedding, subangular-rounded clasts with ½ inch diameter, loose, very moist-wet	
14	SM		
15			
16			
17			
	CH	Brown, silty CLAY, medium-high plasticity, soft-firm, moist	
18			2-3-8
19			
		T.D.= 19.5 ft.	
20			

Scale: 1 inch = 1.5 feet

(S9178-S5.log-3/24/92)

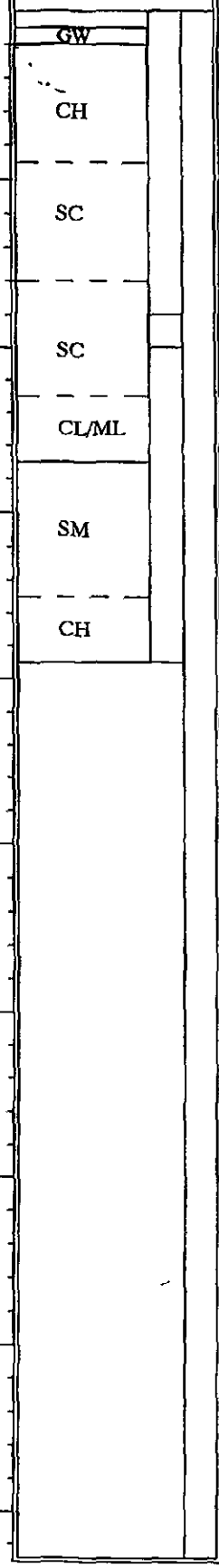
Signature _____

427176 02S03W35L22M

WELL CONSTRUCTION SUMMARY

Project No.: S9178-B0 Well No: MW-S5

Project Name: Safeway
Location: 1111 Marina Boulevard, San Leandro, CA
Date: 2/27/92
Personnel: WKS
Driller: Clear Heart Construction



DRILLING SUMMARY

Drill Rig: Deep Rock, 10k
Auger/Bits: Hollow-stem, continuous flight
Drilling Fluid: None
Boring Diameter (inch): 8
Boring Depth (feet): 19.5
Surface Completion: Traffic rated Christy box
Ground Surface Elevation (feet): 32.02
TOC Elevation (feet): 32.86

WELL DESIGN

Basis: X Geologic Log ___ Geophysical Log

Casing Diameter (inch)	Material + Length (feet)	Slot Size	Interval (feet bgs)
2	PVC	--	-0.3-1
2	PVC	--	1-11
2	PVC	0.01"	11-19
Centralizer	None		
Filter Material	Lonestar #2/16		10-19.5
Bentonite			9-10
Cement			0-9

WATER LEVELS

	Date	Time	Depth (ft bgs)
During Drilling:	2/27/92	13:15	13.5
After completion:	N/A	N/A	N/A
Before development:	3/09/92	12:34	13.40

COMMENTS

CONSTRUCTION TIME LOG

Task	Start Date	Start Time	Finish Date	Finish Time
Drilling:	2/27/92	12:50	2/27/92	13:38
Geophys Logging:				
Casing:	2/27/92	13:51	2/27/92	14:00
Filter Placement:	2/27/92	14:05	2/27/92	14:30
Cementing:	2/27/92	18:20	2/27/92	18:35
Development:	3/09/92	12:35	3/09/92	13:29
Other:				

WELL DEVELOPMENT

Method: Double-diaphragm pump Date: 03/09/92

Time	Gallons	Appearance
12:35	0	Very turbid
12:38	7	Very turbid, well ran dry
12:42	9	Very turbid
12:46	12	Very turbid
12:58	16	Very turbid
13:10	19	Slightly turbid
13:17	22	Very slightly turbid
13:26	26	Very slightly turbid-clear
13:29	29	Clear

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5900 Hollis Street, Suite D
Emeryville, CA 94608
(415) 420-8686

Signature:

[Scale: 1 inch=5 feet]