SITE CONCEPTUAL MODEL UPDATE
FOURTH QUARTER 2006

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

Prepared For:

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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 for the California Regional Water Quality Control Board, San Francisco Bay Region (CRWQCBSFB), the Alameda County Health Care (ACEH) Agency – Department of Health, and the City of San Leandro – Environmental Service Division. This report contains only updates to the Site Conceptual Model Update Third Quarter 2006 report dated 15 November 2006 (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 10 November 2005, or electronically accessed on the Tesoro San Leandro Sharepoint website (https://portal.haleyaldrich.com/sites/ext/San Leandro).

Currently, the groundwater flow is toward the south, which is 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 through MW-5, MW-8, and MW-9 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 wells MW-1 through MW-4, and MW-8 at concentrations greater than the drinking water resource ESL. MTBE is currently detected in well MW-8 at a concentration greater than the drinking water 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.

Based on a leveling off of treatment system performance and indications that laboratory analytical results may be biased low because many of the on-site wells were either vapor extraction or ozone injection points, it was proposed in 1Q2006 to temporarily suspend active remediation to allow an assessment of site rebound and equilibrium concentrations for a six month period. This approach was agreed to by ACEH (letter dated 11 April 2006) and all active remediation systems were shutdown on 12 May 2006. To date, laboratory analytical data indicate a relatively low rebound of gasoline constituent concentrations, which one would expect with the temporary cessation of active remediation. The relatively low post-shutdown concentrations may indicate that only a minimal amount of petroleum compounds are accessible for remediation. It is important to note that most of the current constituent concentrations are at or below values observed before initiation of active remediation in First Quarter 2004. MNA parameter results show that the site is returning to more reducing conditions, but also indicate that the subsurface may not have yet achieved equilibrium conditions. This is particularly demonstrated by a continuing decline in dissolved oxygen concentrations and fluctuating ORP values (i.e., equilibrium conditions require at least two consecutive steady readings).

In summary, based on Third and Fourth Quarter 2006 observations, while the subsurface is not yet at equilibrium, the plume itself appears to be stable. Additional site data demonstrating equilibrium conditions is needed to complete site assessment activities. As a result, Tesoro has requested and received verbal approval from ACEH to extend the temporary suspension of active remediation until at least the Second Quarter of 2007 to allow the site to stabilize. That data will then be utilized to develop a revised site management strategy.

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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.

After collection of the 2Q2006 groundwater samples (12 May 2006) all active remediation systems (i.e., ozone/air sparging and soil vapor extraction) were shut down. The temporary suspension of active remediation for a 6+ month period was agreed to in the Alameda County Health Care Services (ACEH) letter dated 11 April 2006; this approach will allow for an assessment of site rebound and equilibrium contaminant concentrations. Baseline groundwater samples were collected from all monitoring wells immediately prior to shutdown on 12 May 2006, again after 3 months of inactivity (13 August 2006), and again after 6 months of inactivity (20 October 2006). This quarterly report summarizes the results from the third planned sampling event.

Site wells that had been previously used for active remediation (i.e., ozone/air sparging or soil vapor extraction) demonstrated a continued but relatively low increase in contaminant levels when compared to sample results from the 3Q2006 sampling event. This increase in contaminant concentration appears to be directly related to the temporary suspension of active remediation and does not suggest additional contaminant migration. 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 through MW-5 and MW-9 at concentrations greater than the environmental screening level (ESL) for groundwater that is a current or potential drinking water resource. Benzene, toluene, ethylbenzene and total xylenes (BTEX) are currently detected in wells MW-1 through MW-5, and MW-8 at concentrations greater than the drinking water resource ESL. MTBE was also found to exceed the groundwater ESL in well MW-8. 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 or other fuel oxygenates.

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 in Figures 1 and 2, respectively.

4.0 SITE ASSESSMENT ACTIVITIES

No supplemental site assessment activities were performed during the reporting period. 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 20 October, 2006, groundwater levels in monitoring wells MW-1 through MW-9 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.

Data used to prepare the groundwater elevation contour map were obtained from fluid level sensors deployed during the 20 October 2006 sampling event. Groundwater elevation data are summarized in Table 1. The groundwater elevation contour map, using data obtained during the 20 October 2006 sampling event, is shown in Figure 3 and indicates that groundwater flow direction is predominately to the south. Field data sheets from the quarterly monitoring and sampling event are included in Appendix A.

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 inactive remediation to assess equilibrium conditions and potential rebound effects when compared to subsurface conditions from samples collected during periods of active remediation.

Historical and quarterly results of laboratory analysis 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 on Figures 4, 5, 6, and 7, respectively. Copies of the official laboratory

reports and chain of custody records for the Fourth Quarter 2006 quarterly groundwater sampling event are included in Appendix B.

5.3 FINDINGS

On 20 October 2006, groundwater was measured at depths between 11.6 feet and 13.8 feet bgs. Based on previous groundwater elevation data, the groundwater elevation has remained stable. Groundwater flow beneath the site is to the south under a hydraulic gradient less than 0.05 foot per foot, similar to previous quarters. Groundwater monitoring data are presented in Tables 1 and 2, and the groundwater elevation contour map is shown on Figure 3.

Results of laboratory analysis of groundwater samples collected on 20 October 2006, from wells MW-1 through MW-9 are summarized in Table 1 and indicate the following:

- TPH-G was detected in groundwater samples collected from wells MW-1 through MW-5, MW-8, and MW-9 at concentrations ranging from 200 ug/L to 8,800 ug/L. Results show a continued but modest increase in TPH-G concentrations from the Second Quarter 2006 analytical results in most wells, which can be attributed to the temporary suspension of active remediation. Only the results from MW-3 and MW-9 show a slight decrease in concentration, though values are still elevated compared to Second Quarter 2006 results. All other wells were ND (<50 ug/L).

- Benzene was detected in groundwater samples collected from wells MW-2, MW-3, MW-4 and MW-8 at concentrations of 22, 1.9, 2.9 and 1.1 ug/L, respectively. Results show slight increases in contaminant concentration. All other wells were ND (<0.5 ug/L) or less than the GW ESL of 1 ug/L.

- Toluene was not observed in any groundwater samples at a concentration greater than the groundwater ESL of 40 ug/L. Wells MW-1, MW-2 and MW-4 showed Toluene detections ranging from 0.61 ug/L to 28 ug/L; all other wells were ND (<0.5 ug/L).

- Ethylbenzene was detected in groundwater samples collected from wells MW-1, MW-2, and MW-4 at concentrations of 52, 620, and 56 ug/L, respectively. All other wells were ND (<0.5 ug/L) or less than the GW ESL of 30 ug/L.

- Total Xylenes were detected in groundwater samples collected from wells MW-2 and MW-4 at concentrations of 140 and 350 ug/L, respectively. All other wells were ND (<0.5 ug/L) or less than the GW ESL of 20 ug/L.

- MTBE was detected in one groundwater sample at a concentration greater than the groundwater ESL of 5 ug/L (MW-8 at 5.8 ug/L), all other wells were ND (<0.5 ug/L) or less than the GW ESL.

Results of field MNA parameter analysis of groundwater samples collected on 20 October 2006 from wells MW-1 through MW-9 are summarized in Table 2 and indicate the following:

- Dissolved oxygen (DO) concentration and ORP values have not stabilized within on-site monitoring wells. Dissolved oxygen concentrations continue to decrease in all monitoring wells that were previously used as either SVE or ozone/air sparging points, except MW-3, where DO concentrations have increased but are still below 2Q2006 readings. ORP values are fluctuating, having decreased in 3Q2006 and increased in 4Q2006, in all wells formerly used as either SVE or ozone/air sparging points.

- MNA parameters do not suggest the presence of large amounts of residual source. Specifically, many of the on-site wells show both positive DO and ORP; if significant source material were present, DO less than 0.1 mg/L and negative ORP values would be expected.

- Other MNA parameters have also not stabilized further supporting the assessment that the site has not yet achieved equilibrium conditions.

The changes observed in both the MNA and groundwater monitoring parameters indicate that the site is returning to, but has not yet achieved, equilibrium conditions. The groundwater monitoring analytical trends show a continued but modest increase in concentrations, though less than the expected rebound, while MNA parameters have not yet stabilized.

6.0 SITE CONCEPTUAL MODEL OVERVIEW AND UPDATE

Currently, the groundwater flow is toward the south, which is consistent with recent monitoring events, and consistent with the previous SCM for the site. During the Second Quarter 2006 active remediation was temporarily suspended to conduct an assessment of site rebound and conditions under equilibrium state.

7.0 QUARTERLY REMEDIAL PROGRESS OF SOIL VAPOR EXTRACTION SYSTEM

7.1 OPERATIONS UPDATE

Active SVE remediation was temporarily suspended on 12 May 2006 and has remained off to conduct an assessment of site rebound and conditions under equilibrium state.

8.0 QUARTERLY REMEDIAL PROGRESS OF GROUNDWATER TREATMENT SYSTEM

8.1 OPERATIONS UPDATE

Active ozone/air sparging was temporarily suspended on 12 May 2006 and has remained off to conduct an assessment of site rebound and conditions under equilibrium state (i.e., stable DO and ORP readings).

9.0 PROPOSED WORK ACTIVITIES

RDM, Haley & Aldrich, and Tesoro propose the following work activities for the First Quarter of 2007:

- 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.

- Based on the preliminary assessment (analytical results from groundwater samples collected 13 August 2006 and 20 October 2006) that the site has not yet achieved equilibrium conditions, Tesoro requested and received verbal approval from ACEH to extend the temporary suspension of active remediation until the Second Quarter of 2007. Extending the temporary suspension period will provide insight with respect to the following:
    - The current site equilibrium conditions as measured by stable TPH-G, BTEX, MTBE concentrations and MNA parameter values.
    - Whether equilibrium plume conditions are appropriate for continuation of the historical remedial approach (i.e., SVE, air/ozone injection).
    - On-site groundwater quality when groundwater levels return to seasonal highs, typically observed in February – April.
    - The static water levels in key wells within the monitoring network to determine groundwater flow gradient and direction while the system is at equilibrium.

- Use laboratory and field data to assess whether the site has achieved equilibrium conditions or if another period of monitoring is required.

- If the Second Quarter 2007 data indicate the site has achieved equilibrium conditions, recommend revised site management strategies.

10.0 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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11.0 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
	08/13/06		13.08	22.39	<0.5	0.57	40	12	5,200	<0.5	ND	No sheen
	10/20/06		13.58	21.89	<0.5	0.61	52	16	5,300	<0.5	ND	No sheen

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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
	08/13/06		12.80	22.31	17	6.4	520	160	7,700	3.4	ND	No sheen
	10/20/06		13.31	21.80	22	7.6	620	140	8,800	3.1	ND	No sheen

TABLE 1

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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
	08/13/06		12.66	22.18	2.2	0.62	1.6	1.0	1,700	1.1	5.5[c]	No sheen
	10/20/06		13.19	21.65	1.9	<0.5	<0.5	<0.5	1,200	1.6	ND	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
	08/13/06		13.30	22.30	2.5	20	41	240	1,200	2.0	ND	No sheen
	10/20/06		13.78	21.55	2.9	28	56	350	1,500	2.7	ND	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
	08/13/06		13.05	22.04	<0.5	<0.5	0.58	<0.5	140	0.66	ND	No sheen
	10/20/06		13.52	21.57	0.76	<0.5	2.8	1.1	320	1.40	5.9[c]	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
	08/13/06		11.08	21.66	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	10/20/06		11.58	21.16	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	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
	08/13/06		11.88	21.76	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	10/20/06		12.32	21.32	<0.5	<0.5	<0.5	<0.5	<50	0.54	ND	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
	08/13/06		13.83	22.25	0.51	<0.5	0.84	0.51	77	6.1	ND	No sheen
	10/20/06		14.33	21.75	1.1	<0.5	1.8	0.94	100	5.8	6.5[c]	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
	08/13/06		12.66	21.97	<0.5	<0.5	1.7	<0.5	1,000	<0.5	ND	No sheen
	10/20/06		13.14	21.49	<0.5	<0.5	0.58	<0.5	490	<0.5	ND	No sheen

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)	ORP	Specific Conductivity	Temperature	Dissolved CO_2 (ppm)	Ferrous Iron (Fe^{+2})	Total Alkalinity (ppm)	Total Organic Carbon (ppm)	Total Iron (ppm)
MW-1	05/12/06	7.01	2.97	-23	277	18.3	41	0.6	120	11	1.36
	08/13/06	6.97	1.11	-84	227	66.6	26	1.2	94	2.7	14.7
		6.88	1.07	-81	232	67.6		1.4			
		6.84	1.00	-89	228	66.3		1.4			
	10/20/06	6.87	0.17	131	233	71.9	19	0.6	94	2.5	0.83
		6.87	0.26	146	237	71.9		0.6			
		6.86	0.18	152	238	71.7		0.6			
MW-2	05/12/06	7.38	7.51	82	332	18.1	59	0.0	68	3.9	0.703
	08/13/06	6.70	0.65	-113	239	72.8	26	2.0	120	3.2	25.5
		6.71	0.67	-119	240	73.0		1.8			
		6.71	0.72	-120	239	73.2		1.8			
	10/20/06	6.93	0.06	132	272	72.1	24	1.2	120	3.3	21.4
		6.85	0.04	140	267	72.3		1.2			
		6.82	0.04	138	267	72.5		1.2			
MW-3	05/12/06	6.84	2.21	-48	283	19.1	42	1.0	76	3.8	1.23
	08/13/06	6.82	0.51	-199	276	69.4	20	1.6	94	2.4	3.47
		6.79	0.52	-185	274	71.9		1.4			
		6.72	0.47	-183	262	72.5		1.4			
	10/20/06	6.87	0.58	-32	297	75.1	21	0.6	118	2.5	2.65
		6.80	0.62	-38	298	75.9		0.6			
		6.78	0.63	-33	301	76.2		0.6			
MW-4	05/12/06	7.59	9.65	40	534	19.8	3.9	0.0	190	2.4	95
	08/13/06	7.08	2.41	-14	509	68.5	20	NM	180	3.7	308
		7.04	2.86	-17	475	68.2		NM			
		7.17	2.88	-14	499	68.0		NM			
	10/20/06	6.99	0.56	92	630	74.0	29	0.0	198	3.5	105
		7.00	0.44	94	622	73.9		0.0			
		7.03	0.54	91	642	75.1		0.0			
MW-5	05/12/06	7.28	22.41	173	538	20.0	12	0.0	250	1.90	0.36
	08/13/06	6.90	2.28	79	689	71.8	23	0.0	350	2.5	2.49
		6.86	2.16	75	668	72.7		0.0			
		6.87	1.92	7.2	659	72.0		0.0			
	10/20/06	6.98	1.28	88	776	70.2	53	0.0	344	2.6	8.73
		6.92	0.34	96	761	69.8		0.0			
		6.93	0.30	92	758	71.8		0.0			
		6.62	0.29	89	756	72.6		0.0			
MW-6	05/12/06	7.02	4.30	53	1079	17.9	160	0.2	510	3.9	<0.1
	08/13/06	6.87	2.58	47	1067	67.7	81	0.0	480	4.9	<0.1
		6.91	2.36	44	1045	67.1		0.0			
		6.86	2.42	42	1052	66.9		0.0			
	10/20/06	7.07	3.58	-73	1120	68.5	100	0.2	500	5.0	1.04
		7.04	3.12	-86	1150	68.9		0			
		6.97	3.46	-62	1115	69.1		0.2			

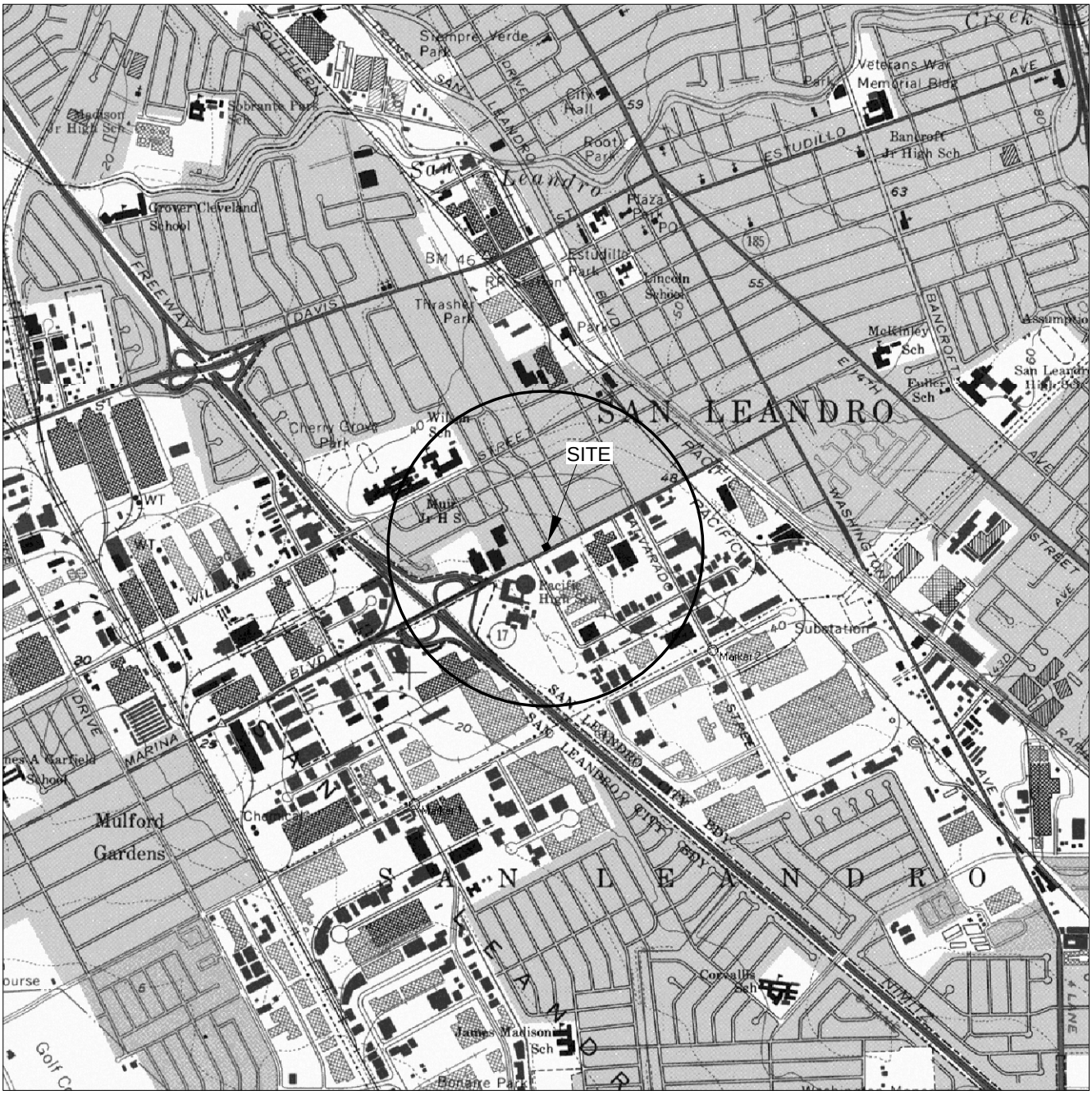
TABLE 2

MNA MONITORING

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

Monitoring Well	Date	pH	D.O. (ppm)	ORP	Specific Conductivity	Temperature	Dissolved CO_2 (ppm)	Ferrous Iron (Fe^{+2})	Total Alkalinity (ppm)	Total Organic Carbon (ppm)	Total Iron (ppm)
MW-7	05/12/06	7.04	2.02	12	425	20.1	65	0.0	170	2.1	<0.1
	08/13/06	6.73	0.86	44	455	70.0	42	0.0	180	2.0	0.732
		6.68	0.91	43	455	70.4		0.0			
		6.66	0.96	46	458	7.09		0.0			
	10/20/06	7.07	2.92	130	467	69.4	50	0.0	188	1.9	0.44
		6.87	3.13	142	492	70.3		0.0			
		6.84	3.07	126	493	71.8		0.0			
MW-8	05/12/06	6.99	5.60	-13	846	18.9	87	0.0	290	2.90	<0.1
	08/13/06	6.86	0.89	-30	716	70.1	97	0.6	370	3.6	2.67
		6.86	0.84	-32	742	69.9		0.6			
		6.86	0.80	-35	787	70.9		0.6			
	10/20/06	6.91	0.07	49	714	68.6	110	0.5	368	3.1	3.56
		6.88	0.06	48	710	68.5		0.5			
		6.87	0.04	45	718	68.5		0.5			
MW-9	05/12/06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/13/06	7.02	1.50	1.50	413	68.9	21	0.0	180	2.6	4.69
		7.01	1.99	1.99	410	68.9		0.0			
		6.99	2.16	2.16	412	68.9		0.0			
		6.98	2.18	2.18	416	68.8		0.0			
	10/20/06	7.06	0.11	97	429	73.1	23	0.0	178	3.2	14.4
		7.01	0.12	96	423	71.9		0.0			
		6.99	0.13	99	422	71.4		0.0			

ppm = parts per million



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

QUADRANGLE LOCATION

SCALE 1:24,000

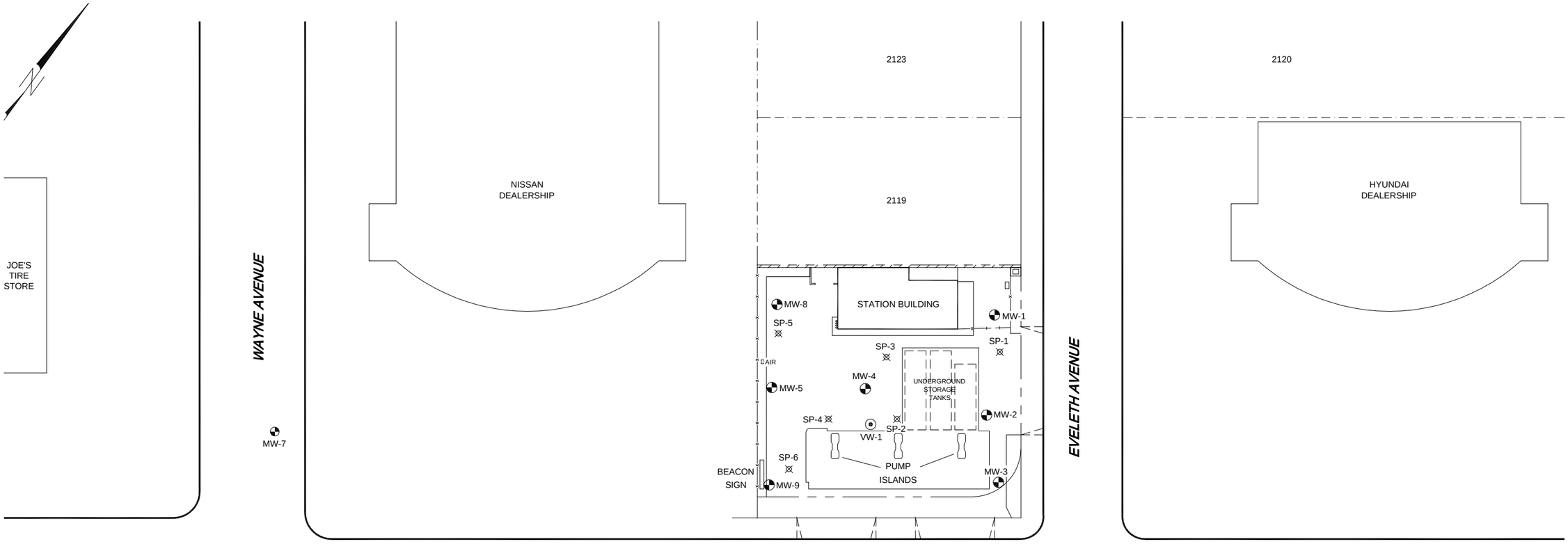
FIGURE 1

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

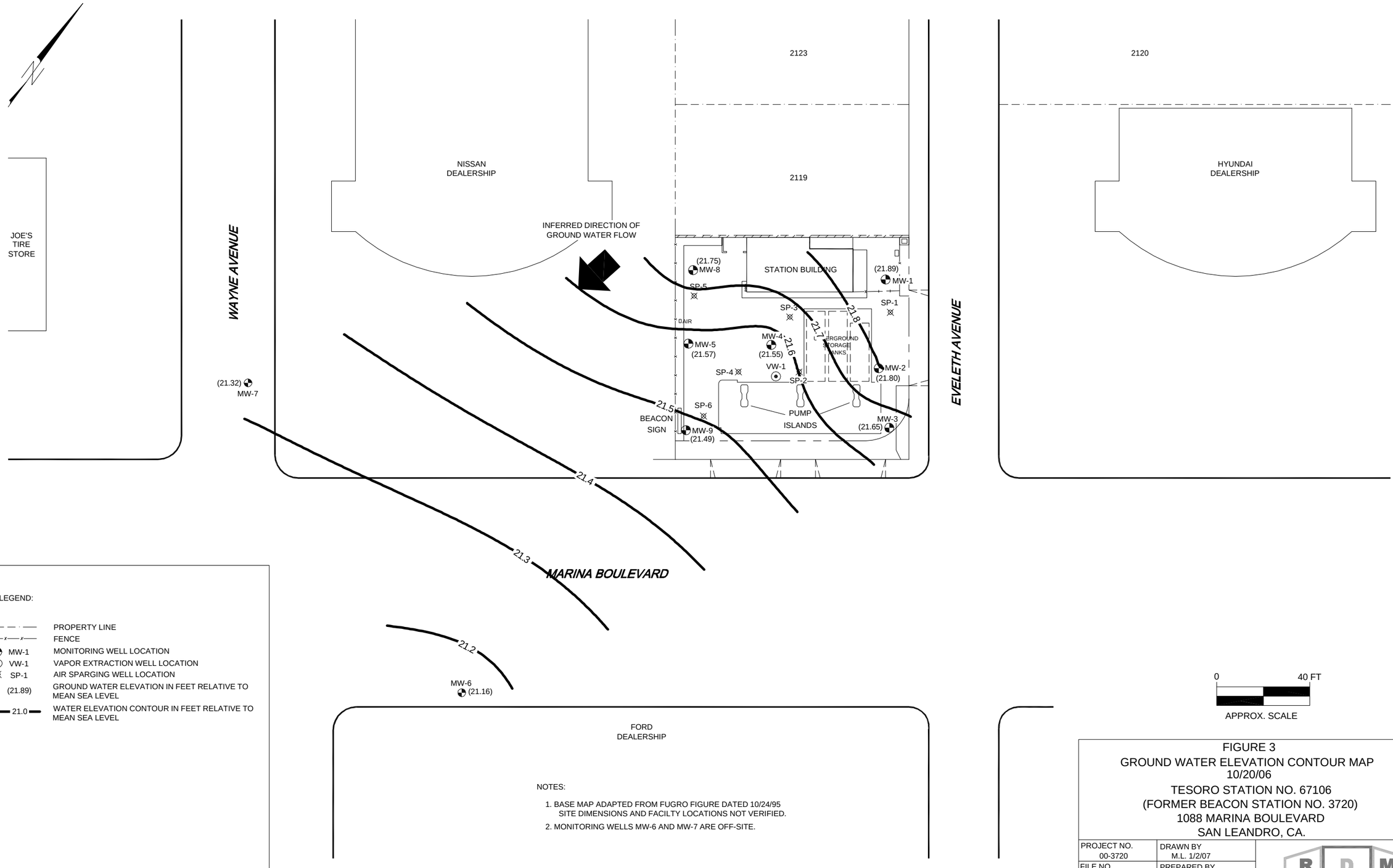
FIGURE 2

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
(21.89)	GROUND WATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL
21.0	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.

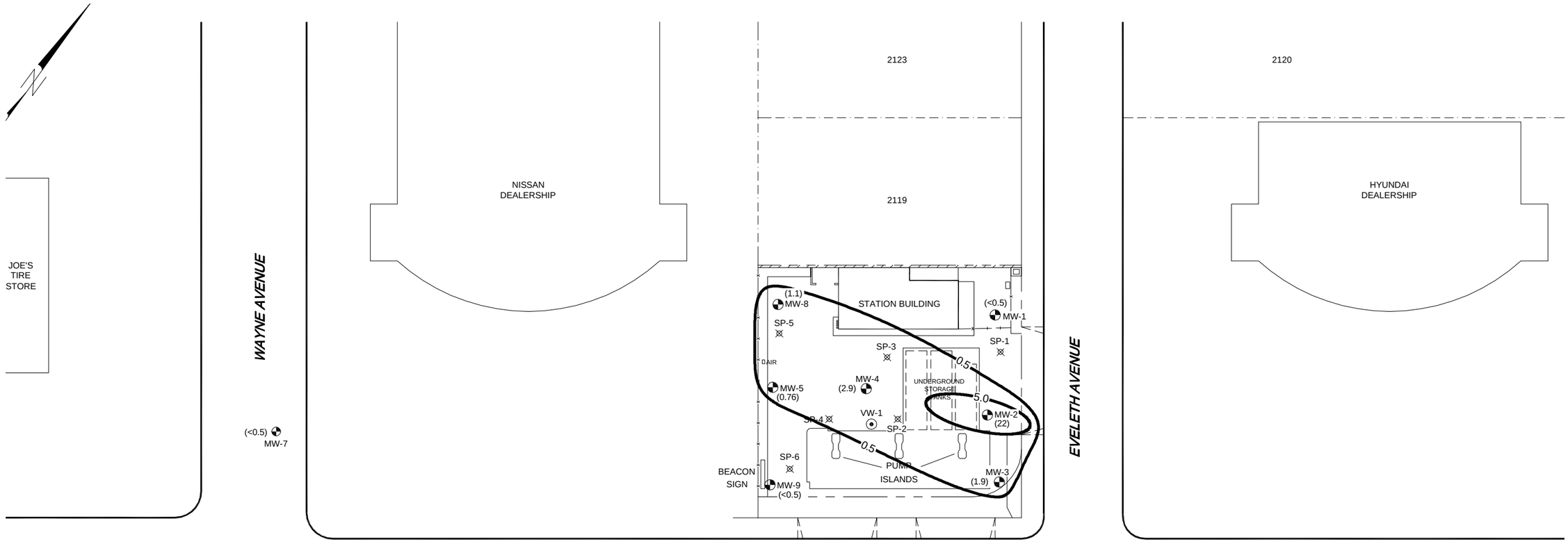
0 40 FT

APPROX. SCALE

FIGURE 3
GROUND WATER ELEVATION CONTOUR MAP
10/20/06
TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 1/2/07
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
(22)	BENZENE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
5.0	BENZENE ISOCONCENTRATION CONTOUR

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

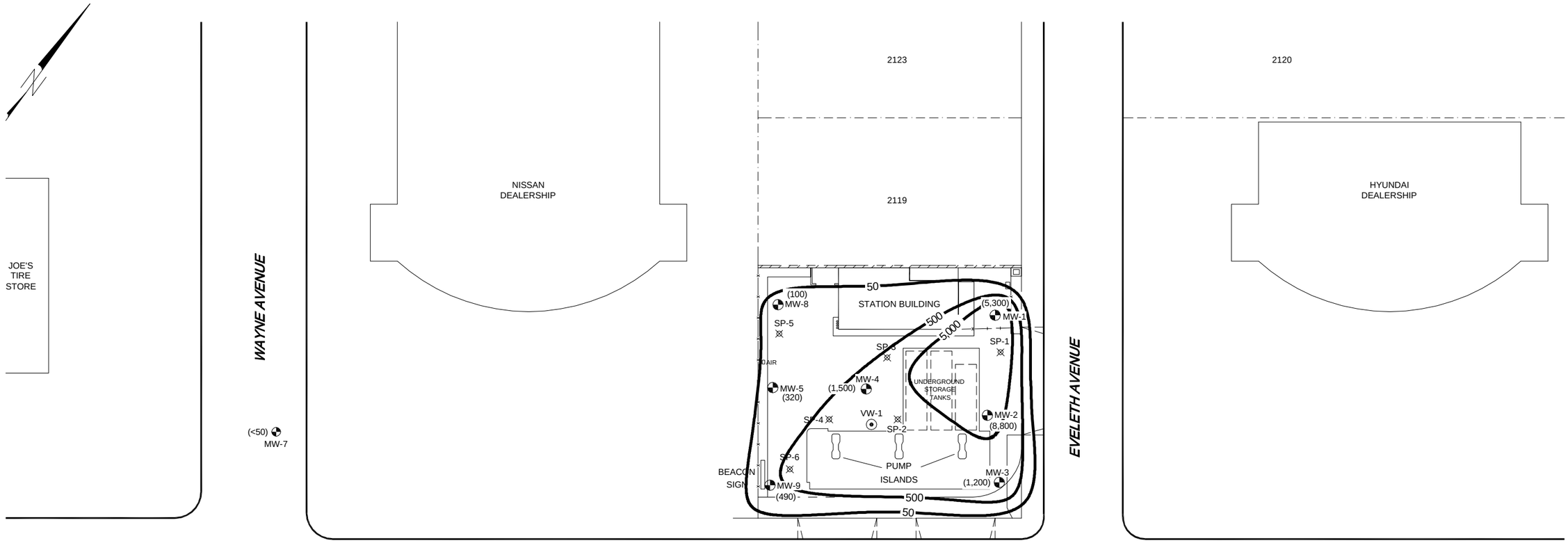
APPROX. SCALE

FIGURE 4
BENZENE ISO-CONCENTRATION MAP
10/20/06

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

PROJECT NO. 00-3720	DRAWN BY M.L. 1/2/07
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
(8,800)	TPHg CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
500	TPHg ISOCONCENTRATION CONTOUR

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

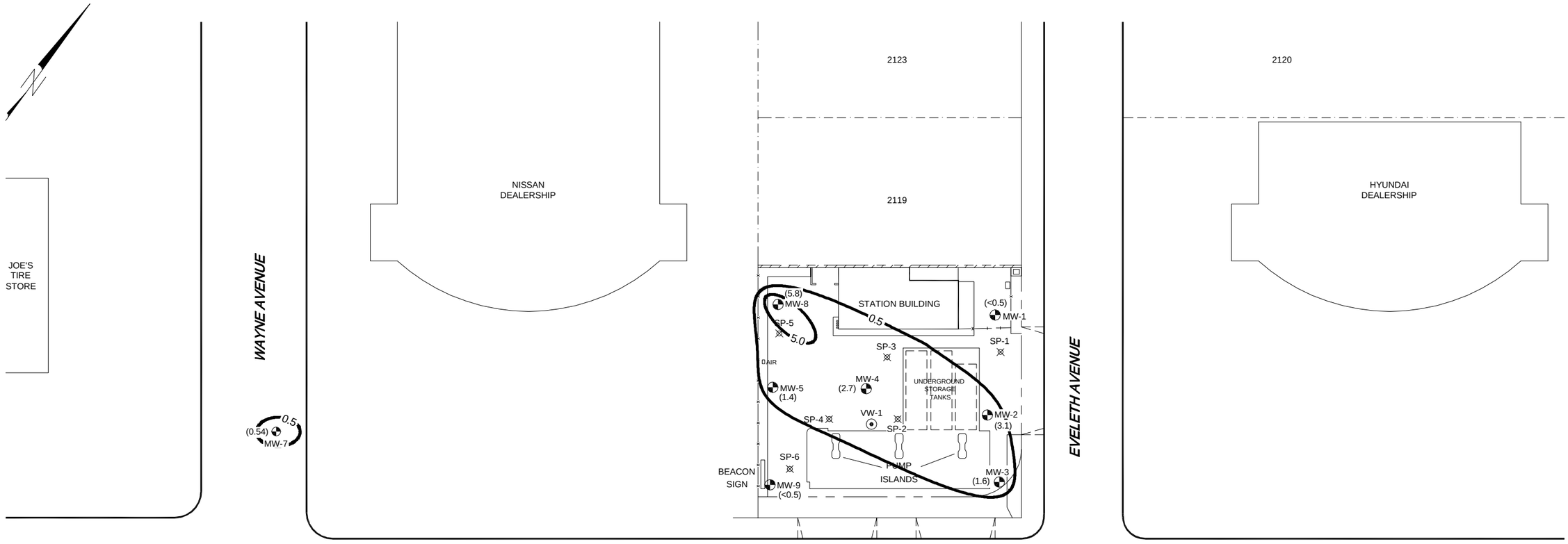
APPROX. SCALE

FIGURE 5
TPHg ISOCONCENTRATION MAP
10/20/06

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

PROJECT NO. 00-3720	DRAWN BY M.L. 1/2/07
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
(5.8)	MTBE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
5.0	MTBE ISOCONCENTRATION CONTOUR

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

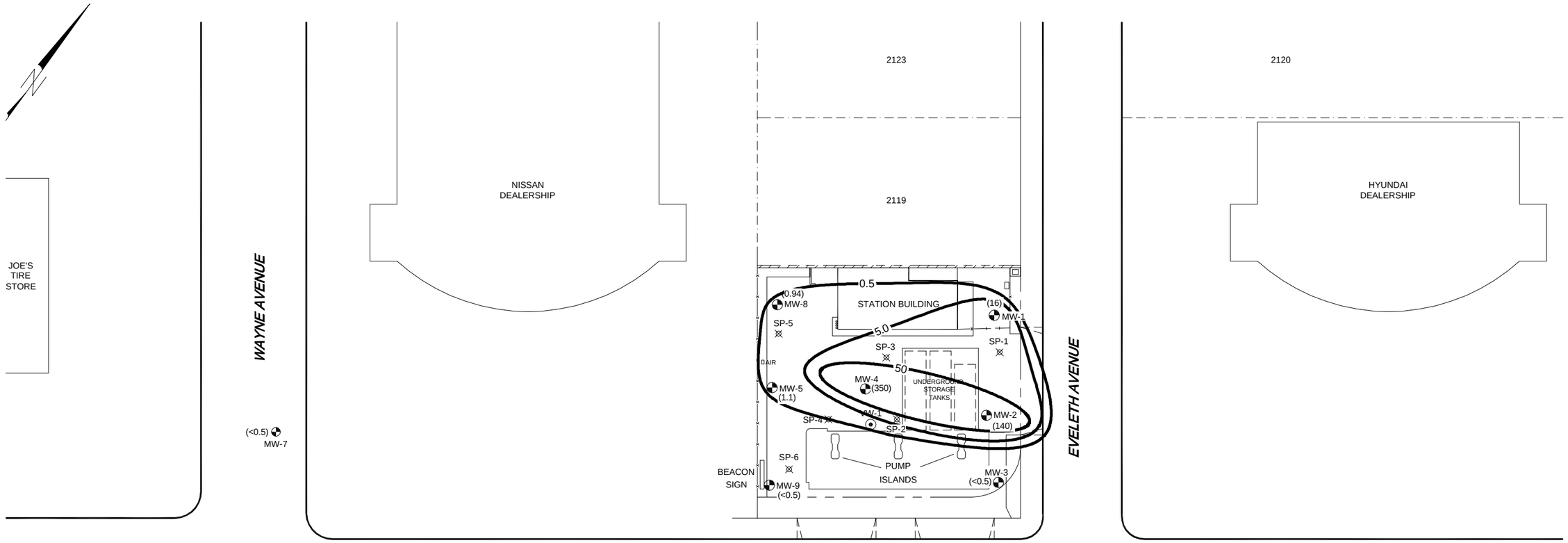
APPROX. SCALE

FIGURE 6
MTBE ISOCONCENTRATION MAP
10/20/06

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

PROJECT NO. 00-3720	DRAWN BY M.L. 1/2/07
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
(350)	XYLENES CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
5.0	XYLENES ISOCONCENTRATION CONTOUR

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
10/20/06

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

PROJECT NO. 00-3720	DRAWN BY M.L. 1/2/07
FILE NO. 00-3720-11	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM 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: 10/20/2006

Technicians : MJ/DH

Project Number: 02-67106

Well Number	Sample Order	Time	Depth to Water	Total Depth	Depth to Product	Product Thickness	Comments
MW-1	9	0846	13.58	27.24			2"
MW-2	8	0842	13.31	22.31			2"
MW-3	6	0836	13.19	28.4			2"
MW-4	7	0840	13.78	27.45			2"
MW-5	3	0829	13.52	28.8			2"
MW-6	1	0821	11.58	14.86			2" - H_2O @ Casing level.
MW-7	2	0825	12.32	25.45			2"
MW-8	5	0834	14.33	28.05			2"
MW-9	4	0832	13.14	24.6			4"

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro	Sample Data:	10/20/2006
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:	0846 hours
Standing water	Yes No	above or below casing	
Top of well level	Yes No	Remark:	
Well cap & locked	Yes No	Remark:	OS Inc
Height of Riser	10"		
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	X

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

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	6.56
Time:	0846	Time:		Actual Purge	7.00
Depth of Well	27.24	Depth to Water			
Depth to Water	13.58				

Sample

Start Purge 1325 Sample Time 1340

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1325	71.9	6.87	233	0.17	131	0.6		1
1332	71.9	6.87	237	0.26	146	0.6		2
1334	71.7	6.86	238	0.18	152	0.6		3

Sample Appearance: Clear. Lock: N/A

Equipment Replacement

Lock	N/A	Well Cap	ok	Bolts	ok	Box	ok

Remarks:

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro	Sample Data:	10/20/2006
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:	0842 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	Not Marked

Purging/Sampling Equipment

Purging -

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

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

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	4.32
Time:	0842	Time:		Actual Purge	4.50
Depth of Well	22.31	Depth to Water			
Depth to Water	13.31				

Sample

Start Purge 1300 Sample Time 1310

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1303	72.1	6.93	272	0.06	132	1.2		1
1305	72.3	6.85	267	0.04	140	1.2		2
1307	72.5	6.82	267	0.04	138	1.2		3

Sample Appearance Cloudy Lock ok

Equipment Replacement

Lock	ok	Well Cap	ok	Bolts	ok	Box	ok

Remarks:

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro	Sample Data:	10/20/2006
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:	0836 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	X

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

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	7.30
Time:	0836	Time:		Actual Purge	7.50
Depth of Well	28.40	Depth to Water			
Depth to Water	13.19				

Sample

Start Purge 1137 Sample Time 1150

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1143	75.1	6.87	297	0.58	-32	0.6		1
1147	75.9	6.80	298	0.62	-38	0.6		2
1152	76.2	6.78	301	0.63	-33	0.6		3

Sample Appearance Clear. Lock ok

Equipment Replacement

Lock	ok	Well Cap	ok	Bolts	ok	Box	ok

Remarks:

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro	Sample Data:	10/20/2006
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:	0840 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	Yes (No)	Remark:	O/S Inc
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	X

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

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	6.56
Time:	0840	Time:		Actual Purge	6.50
Depth of Well	27.45	Depth to Water			
Depth to Water	13.78				

Sample

Start Purge: 1215 Sample Time: 1245

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1220	74.0	6.99	630	0.56	92	0.0		1
1224	73.9	7.00	622	0.44	94	0.0		2
1240	75.1	7.13	642	0.54	91	0.0		3

Sample Appearance: Cloudy. Lock: N/A.

Equipment Replacement

Lock	N/A.	Well Cap	ok	Bolts	-4	Box	ok

Remarks: 1220 - well dewatered @ 4.5g. Allow 10 min recharge.
1240 - well dewatered @ 6.5g.

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro	Sample Data:	10/20/2006
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:	0829 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	Yes (No)	Remark:	O/S Inc
Height of Riser	2"		
Well Box 8" 12" (24")		Type of well box	NA Marked

Purging/Sampling Equipment

Purging -

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

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

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	7.33
Time:	0829	Time:		Actual Purge	10.00
Depth of Well	28.80	Depth to Water			
Depth to Water	13.52				

Sample

Start Purge: 1006 Sample Time: 1025

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1011	70.2	6.98	776	1.28	88	0.0		1
1014	69.8	6.97	761	0.34	96	0.0		2
1017	71.8	6.93	758	0.30	92	0.0		3
1021	72.6	6.92	756	0.29	89	0.0		4

Sample Appearance: Cloudy. Lock: N/A

Equipment Replacement

Lock	N/A.	Well Cap	ok	Bolts	-4	Box	ok

Remarks:

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro	Sample Data:	10/20/2006
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:	0821 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	6"		
Well Box	8" (12") 24"	Type of well box	Pomco

Purging/Sampling Equipment

Purging -

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

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

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	1.57
Time:	0821	Time:		Actual Purge	1.75
Depth of Well	14.86	Depth to Water			
Depth to Water	11.58				

Sample

Start Purge	0905	Sample Time	0920

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
0907	68.5	7.07	1120	3.58	-73	0.2		1
0912	68.9	7.04	1150	3.12	-86	0.0		2
0915	69.1	6.97	1115	3.46	-62	0.2		3

Sample Appearance	Clear.	Lock	ok

Equipment Replacement

Lock	ok	Well Cap	ok	Bolts	-3	Box	ok

Remarks:

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro	Sample Data:	10/20/2006
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:	0825 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	10"		
Well Box	8" (12") 24"	Type of well box	Pomco

Purging/Sampling Equipment

Purging -

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

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

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	6.30
Time:	0825	Time:		Actual Purge	6.50
Depth of Well	25.45	Depth to Water			
Depth to Water	12.32				

Sample

Start Purge	0935	Sample Time	0952

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
0938	69.4	7.07	467	2.92	130	0.0		1
0941	70.3	6.87	492	3.13	142	0.0		2
0945	71.8	6.84	493	3.07	126	0.0		3

Sample Appearance	Clear.	Lock	ok

Equipment Replacement

Lock	ok	Well Cap	ok	Bolts	-3	Box	ok

Remarks:

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro	Sample Data:	10/20/2006
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:	0834 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	6"		
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	X

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

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	6.59
Time:	0834	Time:		Actual Purge	7.00
Depth of Well	28.05	Depth to Water			
Depth to Water	14.33				

Sample

Start Purge	1116	Sample Time	1130

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1120	66.6	6.91	714	0.07	49	0.5		1
1123	68.5	6.88	710	0.06	48	0.5		2
1125	68.5	6.87	718	0.04	45	0.5		3

Sample Appearance	Clear	Lock	ok

Equipment Replacement

Lock	ok	Well Cap	ok	Bolts	-2	Box	ok

Remarks:

RDM ENVIRONMENTAL

SAMPLE INFORMATION SHEET

Client:	Tesoro	Sample Data:	10/20/2006
Site:	Tesoro Station 67106	Project Number:	02-67106
	1088 Marina Blvd., San Leandro, CA	**Well Designation:**	MW-9
Signature:			

Well Box Condition/Traffic

Traffic Control	(Yes) No	Time:	0832 hours
Standing water	Yes (No)	above or below casing	
Top of well level	(Yes) No	Remark:	
Well cap & locked	Yes (No)	Remark:	A/S Tank
Height of Riser	6"		
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	X

Sampling -

Disposable Bailer	X	Teflon Bailer		Disposable Tubing	

Well Purging

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

Initial Measurement		Recharge Measurement		Calculated Purge	22.35
Time:	0832	Time:		Actual Purge	23.00
Depth of Well	24.40	Depth to Water			
Depth to Water	13.14				

Sample

Start Purge: 1036 Sample Time: 1106

Time	Temperature	pH	E.C.	D.O.	ORP	Fe+2		Volume
1044	73.1	7.06	429	0.11	97	0.0		1
1055	71.9	7.01	423	0.10	96	0.0		2
1103	71.4	6.99	422	0.13	99	0.0		3

Sample Appearance: Clear Lock: N/A

Equipment Replacement

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

Remarks:

Appendix B

Official Laboratory Analytical Results –
Quarterly Ground Water Samples

KIFF Analytical LLC

Report Number : 52899
Date : 10/26/2006

Richard Munsch
RDM Environmental
6280 Brookshire Drive
Rocklin, CA 95677

Subject : 9 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 : 52899

Date : 10/26/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-1** Matrix : Water Lab Number : 52899-01

Sample Date :10/20/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Toluene	**0.61**	0.50	ug/L	EPA 8260B	10/25/2006
Ethylbenzene	**52**	0.50	ug/L	EPA 8260B	10/25/2006
Total Xylenes	**16**	0.50	ug/L	EPA 8260B	10/25/2006
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	10/25/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	10/25/2006
Ethanol	**< 5.0**	5.0	ug/L	EPA 8260B	10/25/2006
TPH as Gasoline	**5300**	100	ug/L	EPA 8260B	10/26/2006
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	10/25/2006
4-Bromofluorobenzene (Surr)	94.4		% Recovery	EPA 8260B	10/25/2006

Approved By: Joel Kiff

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

KIFF Analytical LLC

Report Number : 52899

Date : 10/26/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-2** Matrix : Water Lab Number : 52899-02

Sample Date :10/20/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**22**	1.5	ug/L	EPA 8260B	10/25/2006
Toluene	**7.6**	1.5	ug/L	EPA 8260B	10/25/2006
Ethylbenzene	**620**	1.5	ug/L	EPA 8260B	10/25/2006
Total Xylenes	**140**	1.5	ug/L	EPA 8260B	10/25/2006
Methyl-t-butyl ether (MTBE)	**3.1**	1.5	ug/L	EPA 8260B	10/25/2006
Diisopropyl ether (DIPE)	**< 1.5**	1.5	ug/L	EPA 8260B	10/25/2006
Ethyl-t-butyl ether (ETBE)	**< 1.5**	1.5	ug/L	EPA 8260B	10/25/2006
Tert-amyl methyl ether (TAME)	**< 1.5**	1.5	ug/L	EPA 8260B	10/25/2006
Tert-Butanol	**< 7.0**	7.0	ug/L	EPA 8260B	10/25/2006
Methanol	**< 150**	150	ug/L	EPA 8260B	10/25/2006
Ethanol	**< 15**	15	ug/L	EPA 8260B	10/25/2006
TPH as Gasoline	**8800**	150	ug/L	EPA 8260B	10/25/2006
Toluene - d8 (Surr)	97.9		% Recovery	EPA 8260B	10/25/2006
4-Bromofluorobenzene (Surr)	94.7		% Recovery	EPA 8260B	10/25/2006

Approved By: Joel Kiff

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

KIFF Analytical LLC

Report Number : 52899

Date : 10/26/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-3** Matrix : Water Lab Number : 52899-03

Sample Date :10/20/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1.9**	0.50	ug/L	EPA 8260B	10/25/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Methyl-t-butyl ether (MTBE)	**1.6**	0.50	ug/L	EPA 8260B	10/25/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	10/25/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	10/25/2006
Ethanol	**< 5.0**	5.0	ug/L	EPA 8260B	10/25/2006
TPH as Gasoline	**1200**	50	ug/L	EPA 8260B	10/25/2006
Toluene - d8 (Surr)	92.1		% Recovery	EPA 8260B	10/25/2006
4-Bromofluorobenzene (Surr)	95.0		% Recovery	EPA 8260B	10/25/2006

Approved By: Joel Kiff

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

KIFF Analytical LLC

Report Number : 52899

Date : 10/26/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-4** Matrix : Water Lab Number : 52899-04

Sample Date :10/20/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**2.9**	0.50	ug/L	EPA 8260B	10/25/2006
Toluene	**28**	0.50	ug/L	EPA 8260B	10/25/2006
Ethylbenzene	**56**	0.50	ug/L	EPA 8260B	10/25/2006
Total Xylenes	**350**	0.50	ug/L	EPA 8260B	10/25/2006
Methyl-t-butyl ether (MTBE)	**2.7**	0.50	ug/L	EPA 8260B	10/25/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	10/25/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	10/25/2006
Ethanol	**< 5.0**	5.0	ug/L	EPA 8260B	10/25/2006
TPH as Gasoline	**1500**	50	ug/L	EPA 8260B	10/25/2006
Toluene - d8 (Surr)	97.8		% Recovery	EPA 8260B	10/25/2006
4-Bromofluorobenzene (Surr)	97.0		% Recovery	EPA 8260B	10/25/2006

Approved By: Joel Kiff

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

KIFF Analytical LLC

Report Number : 52899

Date : 10/26/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-5** Matrix : Water Lab Number : 52899-05

Sample Date :10/20/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.76**	0.50	ug/L	EPA 8260B	10/25/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Ethylbenzene	**2.8**	0.50	ug/L	EPA 8260B	10/25/2006
Total Xylenes	**1.1**	0.50	ug/L	EPA 8260B	10/25/2006
Methyl-t-butyl ether (MTBE)	**1.4**	0.50	ug/L	EPA 8260B	10/25/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Tert-Butanol	**5.9**	5.0	ug/L	EPA 8260B	10/25/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	10/25/2006
Ethanol	**< 5.0**	5.0	ug/L	EPA 8260B	10/25/2006
TPH as Gasoline	**320**	50	ug/L	EPA 8260B	10/25/2006
Toluene - d8 (Surr)	98.2		% Recovery	EPA 8260B	10/25/2006
4-Bromofluorobenzene (Surr)	94.8		% Recovery	EPA 8260B	10/25/2006

Approved By: Joel Kiff

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

KIFF Analytical LLC

Report Number : 52899

Date : 10/26/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-6** Matrix : Water Lab Number : 52899-06

Sample Date :10/20/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	10/25/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	10/25/2006
Ethanol	**< 5.0**	5.0	ug/L	EPA 8260B	10/25/2006
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	10/25/2006
Toluene - d8 (Surr)	96.6		% Recovery	EPA 8260B	10/25/2006
4-Bromofluorobenzene (Surr)	91.8		% Recovery	EPA 8260B	10/25/2006

Approved By: Joel Kiff

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

KIFF Analytical LLC

Report Number : 52899

Date : 10/26/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-7** Matrix : Water Lab Number : 52899-07

Sample Date :10/20/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Methyl-t-butyl ether (MTBE)	**0.54**	0.50	ug/L	EPA 8260B	10/25/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	10/25/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	10/25/2006
Ethanol	**< 5.0**	5.0	ug/L	EPA 8260B	10/25/2006
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	10/25/2006
Toluene - d8 (Surr)	96.5		% Recovery	EPA 8260B	10/25/2006
4-Bromofluorobenzene (Surr)	92.0		% Recovery	EPA 8260B	10/25/2006

Approved By: Joel Kiff

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

KIFF Analytical LLC

Report Number : 52899

Date : 10/26/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-8** Matrix : Water Lab Number : 52899-08

Sample Date :10/20/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1.1**	0.50	ug/L	EPA 8260B	10/25/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Ethylbenzene	**1.8**	0.50	ug/L	EPA 8260B	10/25/2006
Total Xylenes	**0.94**	0.50	ug/L	EPA 8260B	10/25/2006
Methyl-t-butyl ether (MTBE)	**5.8**	0.50	ug/L	EPA 8260B	10/25/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	10/25/2006
Tert-Butanol	**6.5**	5.0	ug/L	EPA 8260B	10/25/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	10/25/2006
Ethanol	**< 5.0**	5.0	ug/L	EPA 8260B	10/25/2006
TPH as Gasoline	**100**	50	ug/L	EPA 8260B	10/25/2006
Toluene - d8 (Surr)	98.1		% Recovery	EPA 8260B	10/25/2006
4-Bromofluorobenzene (Surr)	91.8		% Recovery	EPA 8260B	10/25/2006

Approved By: Joel Kiff

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

KIFF Analytical LLC

Report Number : 52899

Date : 10/26/2006

Project Name : **67106**

Project Number : **67106**

Sample : **MW-9** Matrix : Water Lab Number : 52899-09

Sample Date :10/20/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/24/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/24/2006
Ethylbenzene	**0.58**	0.50	ug/L	EPA 8260B	10/24/2006
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/24/2006
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/24/2006
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/24/2006
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	10/24/2006
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	10/24/2006
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	10/24/2006
Methanol	**< 50**	50	ug/L	EPA 8260B	10/24/2006
Ethanol	**< 5.0**	5.0	ug/L	EPA 8260B	10/24/2006
TPH as Gasoline	**490**	50	ug/L	EPA 8260B	10/24/2006
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	10/24/2006
4-Bromofluorobenzene (Surr)	92.2		% Recovery	EPA 8260B	10/24/2006

Approved By: Joel Kiff

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

Report Number : 52899

Date : 10/26/2006

QC Report : Method Blank Data

Project Name : **67106**

Project Number : **67106**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/25/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/25/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/25/2006
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	10/25/2006
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/25/2006
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/25/2006
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	10/25/2006
Methanol	< 50	50	ug/L	EPA 8260B	10/25/2006
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	10/25/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/25/2006
Toluene - d8 (Surr)	97.0		%	EPA 8260B	10/25/2006
4-Bromofluorobenzene (Surr)	93.6		%	EPA 8260B	10/25/2006

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

Report Number : 52899

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 10/26/2006

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	52902-08	<0.50	39.9	39.8	39.3	39.3	ug/L	EPA 8260B	10/25/06	98.4	98.9	0.560	70-130	25
Toluene	52902-08	<0.50	39.9	39.8	39.6	39.1	ug/L	EPA 8260B	10/25/06	99.3	98.4	0.852	70-130	25
Tert-Butanol	52902-08	<5.0	200	199	202	202	ug/L	EPA 8260B	10/25/06	101	101	0.0515	70-130	25
Methyl-t-Butyl Ether	52902-08	<0.50	39.9	39.8	37.8	38.2	ug/L	EPA 8260B	10/25/06	94.6	96.0	1.49	70-130	25
Benzene	52907-05	<0.50	40.0	40.0	43.7	43.4	ug/L	EPA 8260B	10/24/06	109	108	0.662	70-130	25
Toluene	52907-05	<0.50	40.0	40.0	42.2	38.1	ug/L	EPA 8260B	10/24/06	105	95.3	10.1	70-130	25
Tert-Butanol	52907-05	42	200	200	255	251	ug/L	EPA 8260B	10/24/06	106	105	1.81	70-130	25
Methyl-t-Butyl Ether	52907-05	21	40.0	40.0	69.9	69.6	ug/L	EPA 8260B	10/24/06	123	122	0.726	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 52899

QC Report : Laboratory Control Sample (LCS)

Date : 10/26/2006

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	10/25/06	98.1	70-130
Toluene	40.0	ug/L	EPA 8260B	10/25/06	98.5	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/25/06	100	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/25/06	94.7	70-130
Benzene	40.0	ug/L	EPA 8260B	10/24/06	107	70-130
Toluene	40.0	ug/L	EPA 8260B	10/24/06	107	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/24/06	108	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/24/06	107	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 : 52899

Date : 10/26/2006

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	10/20/2006		10/20/2006		10/20/2006		10/20/2006		10/20/2006		10/20/2006		10/20/2006		10/20/2006	
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	1.5	**22**	0.50	**1.9**	0.50	**2.9**	0.50	**0.76**	0.50	ND	0.50	ND	0.50	**1.1**
Toluene	EPA 8260B	ug/L		0.50	**0.61**	1.5	**7.6**	0.50	ND	0.50	**28**	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L		0.50	**52**	1.5	**620**	0.50	ND	0.50	**56**	0.50	**2.8**	0.50	ND	0.50	ND	0.50	**1.8**
Total Xylenes	EPA 8260B	ug/L		0.50	**16**	1.5	**140**	0.50	ND	0.50	**350**	0.50	**1.1**	0.50	ND	0.50	ND	0.50	**0.94**
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L		0.50	ND	1.5	**3.1**	0.50	**1.6**	0.50	**2.7**	0.50	**1.4**	0.50	ND	0.50	**0.54**	0.50	**5.8**
Diisopropyl ether (DIPE)	EPA 8260B	ug/L		0.50	ND	1.5	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	1.5	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	1.5	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	7.0	ND	5.0	ND	5.0	ND	5.0	**5.9**	5.0	ND	5.0	ND	5.0	**6.5**
Methanol	EPA 8260B	ug/L		50	ND	150	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50	ND
Ethanol	EPA 8260B	ug/L		5.0	ND	15	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L		100	**5300**	150	**8800**	50	**1200**	50	**1500**	50	**320**	50	ND	50	ND	50	**100**
Toluene - d8 (Surr)	EPA 8260B	%			99.5		97.9		92.1		97.8		98.2		96.6		96.5		98.1
4-Bromofluorobenzene (Surr)	EPA 8260B	%			94.4		94.7		95.0		97.0		94.8		91.8		92.0		91.8

MRL = Method Reporting Limit
ND = Not Detected

Approved By,

Joel Kiff

KIFF Analytical LLC

Analysis Summary

Report Number : 52899

Date : 10/26/2006

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

Project Name :67106
Project Number : 67106

			Sample Name	MW-9
			Sample Date	10/20/2006
Analyte	Method	Units	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	ND
Toluene	EPA 8260B	ug/L	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.50	**0.58**
Total Xylenes	EPA 8260B	ug/L	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	ND
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	ND
Methanol	EPA 8260B	ug/L	50	ND
Ethanol	EPA 8260B	ug/L	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L	50	**490**
Toluene - d8 (Surr)	EPA 8260B	%		99.0
4-Bromofluorobenzene (Surr)	EPA 8260B	%		92.2

MRL = Method Reporting Limit
ND = Not Detected

Approved By,

Joel Kiff

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

Calscience
Environmental
Laboratories, Inc.

October 30, 2006

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

Subject: **Calscience Work Order No.: 06-10-1306**
Client Reference: 67106

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/24/2006 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 subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

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

Sincerely,

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: 10/24/06
Work Order No: 06-10-1306
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	**06-10-1306-1**	**10/20/06**	**Aqueous**	**10/25/06**	**10/26/06**	**061025L02**

Parameter	Result	RL	DF	Qual	Units
Iron	0.829	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-2	**06-10-1306-2**	**10/20/06**	**Aqueous**	**10/25/06**	**10/26/06**	**061025L02**

Parameter	Result	RL	DF	Qual	Units
Iron	21.4	0.1	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-3	**06-10-1306-3**	**10/20/06**	**Aqueous**	**10/25/06**	**10/26/06**	**061025L02**

Parameter	Result	RL	DF	Qual	Units
Iron	2.65	0.10	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-4	**06-10-1306-4**	**10/20/06**	**Aqueous**	**10/25/06**	**10/26/06**	**061025L02**

Parameter	Result	RL	DF	Qual	Units
Iron	105	0.100	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-5	**06-10-1306-5**	**10/20/06**	**Aqueous**	**10/25/06**	**10/26/06**	**061025L02**

Parameter	Result	RL	DF	Qual	Units
Iron	8.73	0.10	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-6	**06-10-1306-6**	**10/20/06**	**Aqueous**	**10/25/06**	**10/26/06**	**061025L02**

Parameter	Result	RL	DF	Qual	Units
Iron	1.04	0.10	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: 10/24/06
Work Order No: 06-10-1306
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	**06-10-1306-7**	**10/20/06**	**Aqueous**	**10/25/06**	**10/26/06**	**061025L02**

Parameter	Result	RL	DF	Qual	Units
Iron	0.440	0.100	1		mg/L

MW-8	**06-10-1306-8**	**10/20/06**	**Aqueous**	**10/25/06**	**10/26/06**	**061025L02**

Parameter	Result	RL	DF	Qual	Units
Iron	3.56	0.10	1		mg/L

MW-9	**06-10-1306-9**	**10/20/06**	**Aqueous**	**10/25/06**	**10/26/06**	**061025L02**

Parameter	Result	RL	DF	Qual	Units
Iron	14.4	0.1	1		mg/L

Method Blank	**097-01-003-6,576**	**N/A**	**Aqueous**	**10/25/06**	**10/26/06**	**061025L02**

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: 10/24/06
Work Order No: 06-10-1306

Project: 67106

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-1	**06-10-1306-1**	**10/20/06**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	2.5	0.5	1		mg/L	N/A	10/25/06	EPA 415.1
Alkalinity, Total (as CaCO3)	94.0	1.0	1		mg/L	N/A	10/24/06	SM 2320B

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-2	**06-10-1306-2**	**10/20/06**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	3.3	0.5	1		mg/L	N/A	10/25/06	EPA 415.1
Alkalinity, Total (as CaCO3)	120	5.0	1		mg/L	N/A	10/24/06	SM 2320B

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-3	**06-10-1306-3**	**10/20/06**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	2.5	0.5	1		mg/L	N/A	10/25/06	EPA 415.1
Alkalinity, Total (as CaCO3)	118	5.0	1		mg/L	N/A	10/24/06	SM 2320B

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-4	**06-10-1306-4**	**10/20/06**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	3.5	0.5	1		mg/L	N/A	10/25/06	EPA 415.1
Alkalinity, Total (as CaCO3)	198	5.0	1		mg/L	N/A	10/24/06	SM 2320B

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: 10/24/06
Work Order No: 06-10-1306

Project: 67106

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-5	**06-10-1306-5**	**10/20/06**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	2.6	0.5	1		mg/L	N/A	10/25/06	EPA 415.1
Alkalinity, Total (as CaCO3)	344	5.0	1		mg/L	N/A	10/24/06	SM 2320B

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-6	**06-10-1306-6**	**10/20/06**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	5.0	0.5	1		mg/L	N/A	10/25/06	EPA 415.1
Alkalinity, Total (as CaCO3)	500	5.0	1		mg/L	N/A	10/24/06	SM 2320B

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-7	**06-10-1306-7**	**10/20/06**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	1.9	0.5	1		mg/L	N/A	10/25/06	EPA 415.1
Alkalinity, Total (as CaCO3)	188	5.0	1		mg/L	N/A	10/24/06	SM 2320B

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-8	**06-10-1306-8**	**10/20/06**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	3.1	0.5	1		mg/L	N/A	10/25/06	EPA 415.1
Alkalinity, Total (as CaCO3)	368	5.0	1		mg/L	N/A	10/24/06	SM 2320B

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: 10/24/06
Work Order No: 06-10-1306

Project: 67106

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-9	**06-10-1306-9**	**10/20/06**	**Aqueous**

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Carbon, Total Organic	3.2	0.5	1		mg/L	N/A	10/25/06	EPA 415.1
Alkalinity, Total (as CaCO3)	178	5.0	1		mg/L	N/A	10/24/06	SM 2320B

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	10/25/06	EPA 415.1
Alkalinity, Total (as CaCO3)	ND	1.0	1		mg/L	N/A	10/24/06	SM 2320B

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: 10/24/06
Work Order No: 06-10-1306
Preparation: EPA 3010A Total
Method: EPA 6010B

Project 67106

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW-1	**Aqueous**	**ICP 3300**	**10/25/06**	**10/26/06**	**061025S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Iron	133	140	65-149	2	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: 06-10-1306

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	06-10-1372-3	10/25/06	N/A	109	108	70-130	1	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: 06-10-1306

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	06-10-1053-2	10/24/06	460	460	0	0-25	
Bicarbonate (as CaCO3)	SM 2320B	06-10-1053-2	10/24/06	460	460	0	0-25	
Carbonate (as CaCO3)	SM 2320B	06-10-1053-2	10/24/06	ND	ND	NA	0-25	
Hydroxide (as CaCO3)	SM 2320B	06-10-1053-2	10/24/06	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Kiff Analytical		Date Received:	N/A
2795 2nd Street, Suite 300		Work Order No:	06-10-1306
Davis, CA 95616-6593		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project: 67106

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-6,576	**Aqueous**	**ICP 3300**	**10/26/06**	**061025-I-02**	**061025L02**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Iron	0.500	0.538	108	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 06-10-1306

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	099-05-097-2,436	10/25/06	N/A	5.0	5.4	108	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 06-10-1306

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. 1306

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Troy Turpen

EDF Report? __ Yes _X_No

Company/Address: Kiff Analytical, LLC

Phone No.: | FAX No.:

Project Number: 67106 | P.O. No.: 52899

Project Name: 67106

Project Address:

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

EDF Deliverable to (Email Address): inbox@kiffanalytical.com

E-mail address: inbox@kiffanalytical.com

Analysis Request

Date due: October 30, 2006

For Lab Use Only

Sample Designation	Sampling		Container					Preservative					Matrix			Alkalinity (SM 2320B)	Total Organic Carbon (EPA 415.1)	Total Iron (EPA 6010)						Date due:	For Lab Use Only
	Date	Time	VOA	Poly	Sleeve	Glass		HNO3	H2SO4	Na2S2O3	ZnAc2 & NaOH	NONE	WATER	SOIL	Air										
MW-1	10/20/06	13:40		2		1		1	1			1	X			X	X	X						X	
MW-2	10/20/06	13:10		2		1		1	1			1	X			X	X	X						X	
MW-3	10/20/06	11:56		2		1		1	1			1	X			X	X	X						X	
MW-4	10/20/06	12:45		2		1		1	1			1	X			X	X	X						X	
MW-5	10/20/06	10:25		2		1		1	1			1	X			X	X	X						X	
MW-6	10/20/06	9:20		2		1		1	1			1	X			X	X	X						X	
MW-7	10/20/06	9:52		2		1		1	1			1	X			X	X	X						X	
MW-8	10/20/06	11:30		2		1		1	1			1	X			X	X	X						X	
MW-9	10/20/06	11:06		2		1		1	1			1	X			X	X	X						X	

Relinquished by: [signature] Kiff Analytical	Date 102306	Time 1900	Received by:	Remarks:
Relinquished by:	Date	Time	Received by:	
Relinquished by: [signature]	Date 10-24-06	Time 8:30	Received by Laboratory: [signature]	Bill to: Accounts Payable

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 06 - 10-1306

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: KIFF ANALYTICAL **DATE:** 10-24-06

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):

3.0 °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: WB

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: ✓ No (Not Intact) : _____ Not Present: _____

Initial: WB

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: WB

COMMENTS:

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

October 31, 2006

CLS Work Order #: CPJ0933
COC #: 52899

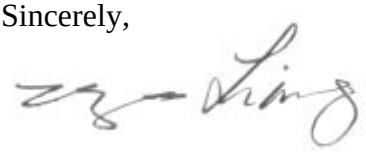
Troy Turpen
KIFF Analytical
2795 Second St. Suite 300
Davis, CA 95616

Project Name: 67106

Enclosed are the results of analyses for samples received by the laboratory on 10/23/06 12:55. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

KIFF Analytical	Project: 67106	
2795 Second St. Suite 300	Project Number: 67106	**CLS Work Order #: CPJ0933**
Davis, CA 95616	Project Manager: Troy Turpen	COC #: 52899

CPJ0933

KIFF Analytical LLC

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

California Lab Services
3249 Fitzgerald Rd.
Rancho Cordova, CA 95742
tel: (916) 638-7301 COC# 52899 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:
Phone No.: FAX No.:
Project Number: 67106
P.O. No.: 52899
EDF Deliverable to (Email Address):
Project Name: 67106
E-mail address: inbox@kiffanalytical.com
Project Address:

Sample Designation	Sampling Date	Sampling Time	Container: Glass Jar	Container: Poly	Container: Amber	Preservative: HCl	Preservative: HNO3	Preservative: Na2S2O3	Preservative: NONE	Matrix: WATER	Matrix: SOIL	Analysis Request: Dissolved CO_2 (SM 4500C)	Date due: October 30, 2006	For Lab Use Only
MW-1	10/20/06	13:40		1					1	X		X	X	
MW-2	10/20/06	13:10		1					1	X		X	X	
MW-3	10/20/06	11:56		1					1	X		X	X	
MW-4	10/20/06	12:45		1					1	X		X	X	
MW-5	10/20/06	10:25		1					1	X		X	X	
MW-6	10/20/06	9:20		1					1	X		X	X	
MW-7	10/20/06	9:52		1					1	X		X	X	
MW-8	10/20/06	11:30		1					1	X		X	X	
MW-9	10/20/06	11:06		1					1	X		X	X	

Relinquished by: Michelle Spencer Kiff Analytical	Date 102306	Time 1255	Received by:	Remarks:
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date	Time	Received by Laboratory: Jon R 10-23-6 1255	Bill to: Accounts Payable

p.1 5302974802 Kiff Analytical Oct 23 06 12:21p

CALIFORNIA LABORATORY SERVICES

KIFF Analytical
2795 Second St. Suite 300
Davis, CA 95616

Project: 67106
Project Number: 67106
Project Manager: Troy Turpen

CLS Work Order #: CPJ0933
COC #: 52899

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (CPJ0933-01) Water	**Sampled: 10/20/06 13:40**	**Received: 10/23/06 12:55**							
Carbon Dioxide as CO2	**19**	5.0	mg/L	1	CP08216	10/23/06	10/24/06	SM 4500C	
MW-2 (CPJ0933-02) Water	**Sampled: 10/20/06 13:10**	**Received: 10/23/06 12:55**							
Carbon Dioxide as CO2	**24**	5.0	mg/L	1	CP08216	10/23/06	10/24/06	SM 4500C	
MW-3 (CPJ0933-03) Water	**Sampled: 10/20/06 11:56**	**Received: 10/23/06 12:55**							
Carbon Dioxide as CO2	**21**	5.0	mg/L	1	CP08216	10/23/06	10/24/06	SM 4500C	
MW-4 (CPJ0933-04) Water	**Sampled: 10/20/06 12:45**	**Received: 10/23/06 12:55**							
Carbon Dioxide as CO2	**29**	5.0	mg/L	1	CP08216	10/23/06	10/24/06	SM 4500C	
MW-5 (CPJ0933-05) Water	**Sampled: 10/20/06 10:25**	**Received: 10/23/06 12:55**							
Carbon Dioxide as CO2	**53**	5.0	mg/L	1	CP08216	10/23/06	10/24/06	SM 4500C	
MW-6 (CPJ0933-06) Water	**Sampled: 10/20/06 09:20**	**Received: 10/23/06 12:55**							
Carbon Dioxide as CO2	**100**	5.0	mg/L	1	CP08216	10/23/06	10/24/06	SM 4500C	
MW-7 (CPJ0933-07) Water	**Sampled: 10/20/06 09:52**	**Received: 10/23/06 12:55**							
Carbon Dioxide as CO2	**50**	5.0	mg/L	1	CP08216	10/23/06	10/24/06	SM 4500C	
MW-8 (CPJ0933-08) Water	**Sampled: 10/20/06 11:30**	**Received: 10/23/06 12:55**							
Carbon Dioxide as CO2	**110**	5.0	mg/L	1	CP08216	10/23/06	10/24/06	SM 4500C	
MW-9 (CPJ0933-09) Water	**Sampled: 10/20/06 11:06**	**Received: 10/23/06 12:55**							
Carbon Dioxide as CO2	**23**	5.0	mg/L	1	CP08216	10/23/06	10/24/06	SM 4500C	

KIFF Analytical
2795 Second St. Suite 300
Davis, CA 95616

Project: 67106
Project Number: 67106
Project Manager: Troy Turpen

CLS Work Order #: CPJ0933
COC #: 52899

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CP08216 - General Preparation										
Blank (CP08216-BLK1)				Prepared: 10/23/06 Analyzed: 10/24/06						
Carbon Dioxide as CO2	ND	5.0	mg/L							

CALIFORNIA LABORATORY SERVICES

10/31/06 12:02

KIFF Analytical	Project: 67106	
2795 Second St. Suite 300	Project Number: 67106	**CLS Work Order #: CPJ0933**
Davis, CA 95616	Project Manager: Troy Turpen	COC #: 52899

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

KIFF Analytical LLC

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

SRG # / Lab No. 52899

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Richard Munsch	California EDF Report? ☐ Yes ☐ No
Company / Address: RDM Env.	Sampling Company Log Code:
Phone #: 916 415 1134 / Fax #: 916 415 1154	Global ID:
Project #: 671106 / P.O. #: —	EDF Deliverable To (Email Address):
Project Name: 671106	Sampler Signature:
Project Address: 1068 Marina Blvd San Leandro, CA	

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Sleeve	Poly	Glass	Tedlar	Preservative: HCl	HNO_3	None	H_2SO_4	Matrix: Water	Soil	Air	Analysis Request: 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 (CCR)	Alkalinity	T.O.C	Iron	Diss. CO2	TAT: 12 hr ☐ 24 hr ☐ 48 hr ☐ 72 hr ☒ 1 wk	For Lab Use Only
MW-1	10/20/06	1340	3		3	1		3	1	2	1	X					X	X		X								X	X	X	X		01
MW-2		1310																																02
MW-3		1156																																03
MW-4		1245																																04
MW-5		1025																																05
MW-6		0920																																06
MW-7		0952																																07
MW-8		1130																																08
MW-9	↓	1100	↓		↓	↓		↓	↓	↓	↓	↓					↓	↓		↓								↓	↓	↓	↓		09

Relinquished by:	Date	Time	Received by:
Douglas Hoff			
	102306	1114	Michelle Spencer, Kiff Analytical

Remarks: STAT

Email Copy to RDM

Bill to: Rob Donovan / Tesoro Refg.

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
-.4	MAS	102306	1425	IR-5	(Yes) / No

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