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By Alameda County Environmental Health at 1:30 pm, Apr 01, 2013



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29 March 2013

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

Subject: Report Submittal
44 Lewelling Boulevard, San Lorenzo, California
Tesoro No. 67107 (Former Beacon 3721); ACEH Case No. RO0498

Dear Mr. Wickham:

Enclosed please find a copy of the requested reports requested in your letter dated 31 December 2012 for the subject site located at 44 Lewelling Boulevard in San Lorenzo, California. The following reports are being submitted by Arctos Environmental on behalf of Tesoro Environmental Resources Company:

- Second Quarter 2011 Semiannual Groundwater Monitoring Report
- Fourth Quarter 2011 Semiannual Groundwater Monitoring Report
- Second Quarter 2012 Semiannual Groundwater Monitoring Report
- Request for Closure and Fourth Quarter 2012 Groundwater Monitoring Report

Based on my inquiry of the person or persons directly responsible for gathering the information contained in this report, I believe the information was prepared by qualified personnel who properly gathered and evaluated the information, and that the information submitted is, to the best of my knowledge and belief, true, correct, and complete. Please feel free to call me at 253/896-8700 or Michael Purchase of Arctos Environmental at 510/525-2180 with questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jeffrey M. Baker".

Jeffrey M. Baker, P.E.
Supervisor, Environmental
Compliance & Remediation
Tesoro Companies, Inc.

Attachments

CC: Arctos – Michael Purchase



Arctos Environmental
1332 Peralta Avenue 510 525-2180 PHONE
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15 July 2011
Project No. 01ZO

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

**Subject: Second Quarter 2011 Semiannual Groundwater Monitoring Report
44 Lewelling Boulevard, San Lorenzo, California
Tesoro No. 67107 (Former Beacon 3721); ACEH Case No. RO0498**

Dear Mr. Wickham:

Arctos Environmental (Arctos), on behalf of Tesoro Environmental Resources Company (Tesoro), has prepared this letter report summarizing project activities for the second quarter 2011 at the subject site (Figure 1).

Executive Summary

Arctos conducted semiannual groundwater monitoring on 4 and 5 April 2011 as approved by Alameda County Environmental Health (ACEH) in a letter dated 28 April 2011. Total petroleum hydrocarbons as gasoline (TPHg), benzene, and methyl tert-butyl ether (MTBE) concentrations continue to show decreasing concentrations for both onsite and offsite wells. Offsite benzene and MTBE concentrations have remained below the Environmental Screening Levels (ESLs) during the last 6 quarters of monitoring. A comparison of current and historical maximum hydrocarbon concentrations show a decrease of 95 to 100 percent on site and 86 to 100 percent off site.

Based on the monitoring results and significant concentration decreases, Arctos stopped oxygen injection on 15 May 2011. The ACEH approved stopping injection in the letter dated 28 April 2011.

Site Background

A site background, which summarizes regional and site geology and hydrogeology and previous investigation and remediation, can be viewed at the project internet web site at

https://portal.haleyaldrich.com/sites/ext/San_Lorenzo with a username and password provided by Tesoro.

Field Activities

Arctos's subcontractor, Confluence Environmental, Inc. (Confluence), of Sacramento, California, performed the annual groundwater monitoring event on 4 and 5 April 2011. Samples were collected from wells MW-1, MW-2, MW-3R, MW-4, MW-6, MW-7, MW-10 through MW-12, RW-1, RW-2, and PT-1 (Figure 2). Groundwater monitoring was performed in accordance with the approved monitoring plan, Regional Water Quality Control Board guidelines, and the quality assurance/quality control (QA/QC) procedures in Attachment A. Field data sheets are in Attachment B.

Analytical Program

The groundwater samples were analyzed in accordance with the analytical plan in Attachment A.

Groundwater Results

Groundwater elevations were recorded at approximately 31.0 to 32.9 feet above mean sea level (12.0 to 16.7 feet below ground surface; Table 1). Water elevations increased between 1.3 and 2.1 feet since January 2011. Water elevations were at their seasonally high levels in April 2011 and the highest reported in 5 years. Seasonally high water levels were last recorded at the current high elevations in April 2006.

Water level data indicated that the general direction of water flow was toward the southwest with an estimated gradient of 0.007 (1 foot/140 feet; Figure 2). April 2011 groundwater elevations and gradient were generally consistent with historical data (Attachment C).

The highest TPHg concentration of 4,000 micrograms per liter ($\mu\text{g/l}$) was at offsite well MW-10. Well MW-3R had the highest onsite TPHg and MTBE concentrations of 980 and 14 $\mu\text{g/l}$, respectively. Only onsite wells MW-3R and RW-1 had benzene concentrations (71 and 26 $\mu\text{g/l}$, respectively) above the ESL of 1 $\mu\text{g/l}$. Benzene, MTBE, and tert-butyl alcohol (TBA) were below the ESLs for offsite wells during the semiannual monitoring event and have been since July 2009.

The following table summarizes TPHg, benzene, and MTBE concentrations for onsite well MW-3R and offsite well MW-10 for the current period and previous monitoring period when water elevations were at their current levels (April 2006).

Well	Sample Date	TPHg (µg/l)	Benzene (µg/l)	MTBE (µg/l)
MW-3R	4/28/06	8,200	510	81
	4/6/11	980	71	14
MW-10	4/28/06	5,800	3.1	38
	4/5/11	4,000	ND ^(a)	1.7

(a) Not detected

Groundwater analytical results are summarized in Table 2. Figures 3, 4, and 5 show isoconcentration contours for TPHg, benzene, and MTBE, respectively. Figures 6A through 6G illustrate the change in groundwater quality with time for TPHg, benzene, and MTBE at wells MW-1, MW-3R, RW-1, RW-2, PT-1, MW-10, and MW-11. Historical analytical results are in Attachment D and the laboratory reports and chain-of-custody forms are in Attachment E.

Trend Analysis

Trend analysis results show decreasing trends for TPHg, benzene, and MTBE for the seven wells with concentrations above the ESLs, except for MTBE at well PT-1. PT-1 shows a stable trend for MTBE over the past 12 monitoring events (since September 2008) with concentrations steadily decreasing since February 2010. Both offsite wells MW-10 and MW-11 show decreasing trends for TPHg, the only petroleum hydrocarbon above the ESL off site. Trend analysis procedures and results are summarized in Attachment F.

Oxygen Injection Status

The operation of the oxygen injection system was stopped on 15 May 2011 after approval from ACEH in a letter dated 28 April 2011. Arctos recommended stopping oxygen injection in the first quarter 2011 status report based on (1) significantly reduced concentrations at and downgradient of the site, (2) decreasing concentrations trends, and (3) limited effectiveness of oxygen injection.

Conclusions and Recommendations

Results of the groundwater sampling indicate the following conclusions:

- Offsite benzene and MTBE concentrations have remained below ESLs since the third quarter 2006 and second quarter 2009 sampling events, respectively

- Petroleum hydrocarbon compounds show statistically decreasing or stable trends for wells above the ESLs with reductions from 95 to 100 percent on site and 86 to 100 percent off site

Arctos recommends continuing semiannual groundwater sampling to confirm decreasing groundwater concentrations before evaluating the site for closure.

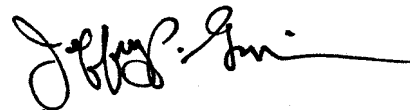
If you have questions or comments, please call Mike Purchase at 510/525-2180 or Jeff Gwinn at 562/988-2755.

Very truly yours,

ARCTOS ENVIRONMENTAL



Michael P. Purchase, P.E.
Senior Project Manager



Jeffrey P. Gwinn, P.E.
Vice President

Copy: Jeffrey M. Baker – Tesoro Companies, Inc.

- Attachments:
- Table 1 – Well and Groundwater Elevations
 - Table 2 – Grounwater Monitoring Analytical Results
 - Figure 1 – Site Location Map
 - Figure 2 – Site Plan
 - Figure 3 – TPHg Concentration Contours in Groundwater
 - Figure 4 – Benzene Concentration Contours in Groundwater
 - Figure 5 – MTBE Concentration Contour in Groundwater
 - Figures 6A through 6G – TPHg, Benzene, and MTBE Concentrations with Groundwater Elevations for Wells MW-1, MW-3R, RW-1, RW-2, PT-1, MW-10, and MW-11
 - Attachment A – Groundwater Sampling QA/QC Procedures
 - Attachment B – Field Data Sheets
 - Attachment C – Historical Groundwater Elevations
 - Attachment D – Historical Groundwater Analytical Results
 - Attachment E – Laboratory Analytical Report and Chain-of-Custody Form
 - Attachment F – Trend Analysis
 - Attachment G – Waste Manifests

TABLE 1

**WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107**

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation^(a) (feet MSL)	Water Table Elevation^(b) (feet MSL)
MW-1	4/13/10	14.68	46.36	31.68
	7/6/10	15.82		30.54
	10/27/10	17.03		29.33
	1/25/11	15.61		30.75
	4/5/11	13.96		32.40
MW-2	4/13/10	13.55	45.61	32.06
	7/6/10	14.96		30.65
	10/27/10	16.18		29.43
	1/25/11	14.73		30.88
	4/5/11	12.85		32.76
MW-3R	4/13/10	13.50	45.16	31.66
	7/6/10	14.70		30.46
	10/27/10	15.90		29.26
	1/25/11	14.50		30.66
	4/5/11	12.72		32.44
MW-4	4/13/10	15.80	47.36	31.56
	7/6/10	16.82		30.54
	10/27/10	18.02		29.34
	1/25/11	16.64		30.72
	4/5/11	14.95		32.41
MW-5	4/13/10	14.60	46.50	31.90
	7/6/10	15.83		30.67
	10/27/10	17.08		29.42
	1/25/11	15.56		30.94
	4/5/11	13.84		32.66
MW-6	4/13/10	9.57	45.17	35.60
	7/6/10	14.50		30.67
	10/27/10	15.78		29.39
	1/25/11	14.19		30.98
	4/5/11	12.25		32.92

TABLE 1

**WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107**

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation^(a) (feet MSL)	Water Table Elevation^(b) (feet MSL)
MW-7	4/13/10	17.70	44.24	26.54
	7/6/10	14.00		30.24
	10/27/10	15.21		29.03
	1/25/11	13.81		30.43
	4/5/11	11.96		32.28
MW-8	4/13/10	13.87	44.95	31.08
	7/6/10	15.00		29.95
	10/27/10	16.20		28.75
	1/25/11	15.15		29.80
	4/5/11	13.02		31.93
MW-9	4/13/10	16.20	47.65	31.45
	7/6/10	17.20		30.45
	10/27/10	18.40		29.25
	1/25/11	17.00		30.65
	4/5/11	15.50		32.15
MW-10	4/13/10	14.08	45.04	30.96
	7/6/10	15.05		29.99
	10/27/10	16.20		28.84
	1/25/11	14.90		30.14
	4/5/11	13.40		31.64
MW-11	4/13/10	17.24	47.69	30.45
	7/6/10	18.05		29.64
	10/27/10	19.10		28.59
	1/25/11	17.92		29.77
	4/5/11	16.67		31.02
MW-12	4/13/10	16.28	47.27	30.99
	7/6/10	17.19		30.08
	10/27/10	18.30		28.97
	1/25/11	17.05		30.22
	4/5/11	15.60		31.67
RW-1	4/13/10	14.30	45.86	31.56
	7/6/10	15.48		30.38
	10/27/10	16.70		29.16

TABLE 1

**WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107**

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation^(a) (feet MSL)	Water Table Elevation^(b) (feet MSL)
RW-1 (cont.)	1/25/11	15.25	45.86	30.61
	4/5/11	13.43		32.43
RW-2	4/13/10	14.90	46.40	31.50
	7/6/10	15.95		30.45
	10/27/10	17.17		29.23
	1/25/11	15.74		30.66
	4/5/11	14.13		32.27
OS-1	1/25/11	16.53	47.19	30.66
OS-2	1/25/11	16.15	46.79	30.64
OS-3	1/25/11	14.94	45.68	30.74
OS-4	1/25/11	15.34	46.02	30.68
PT-1	7/6/10	16.10	46.48	30.38
	10/27/10	17.27		29.21
	1/25/11	15.85		30.63
	4/5/11	14.20		32.28

- (a) Elevation of PVC well casing (north edge) surveyed relative to mean sea level (MSL).
Wells were surveyed by Cross Land Surveying, Inc., per AB 2886 requirements on 26 September 2008.
- (b) Difference between "PVC Casing Elevation" and "Depth to Water."

TABLE 2
GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

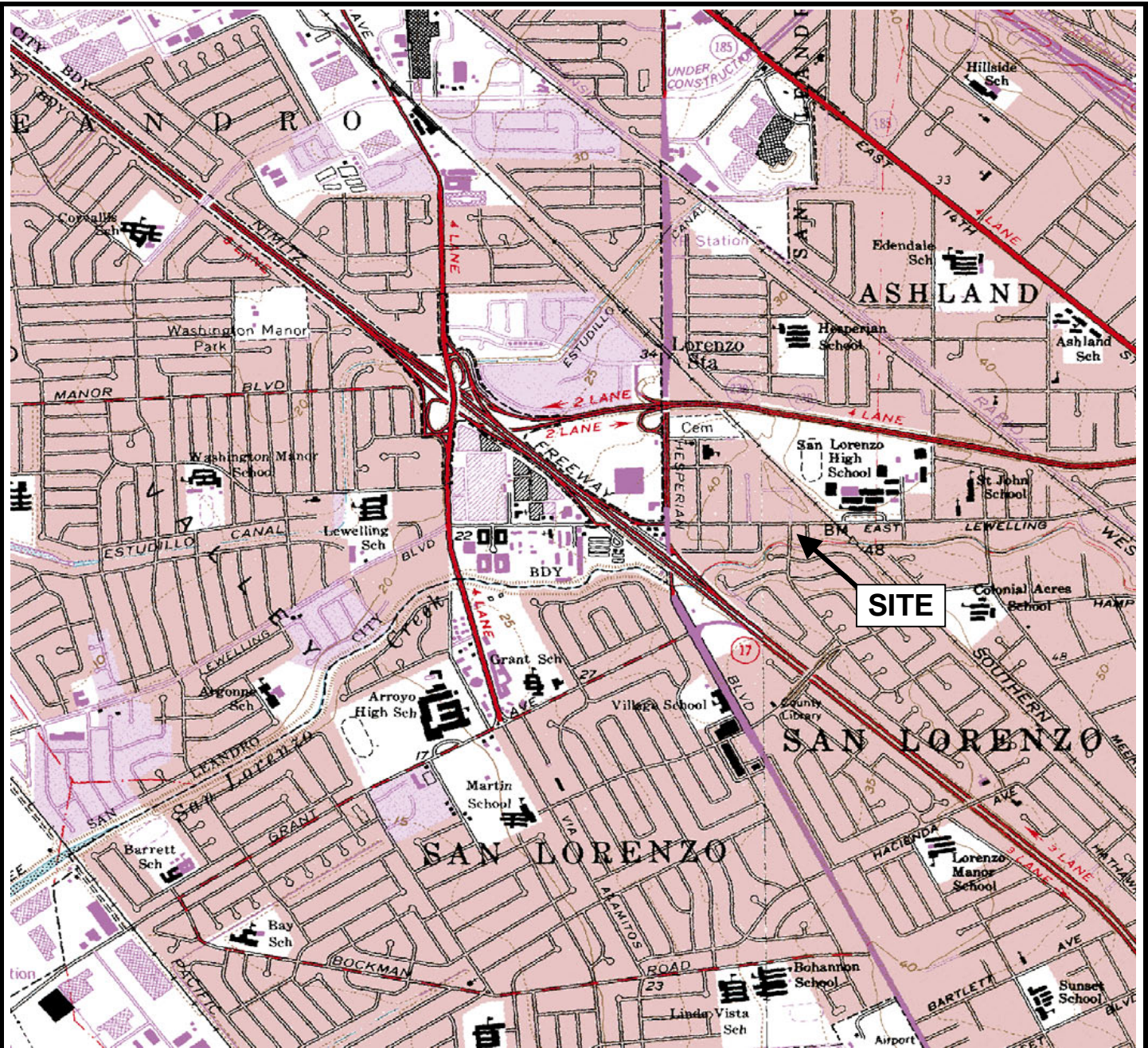
Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-1	4/13/10	ND<50 ^(e)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.9	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/6/10	160	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.1	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	200	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	140	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.8	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/5/11	63	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.59	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-2	4/13/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/6/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/5/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-3R	4/14/10	840	81	1.4	62	22	16	ND<0.5	ND<0.5	ND<0.5	16
	7/7/10	570	59	0.94	21	6.0	13	ND<0.5	ND<0.5	ND<0.5	16
	10/27/10	420	24	0.56	2.1	0.83	12	ND<0.5	ND<0.5	ND<0.5	14
	1/25/11	1,100	64	1.1	40	9.4	9.8	ND<0.5	ND<0.5	ND<0.5	14
	4/6/11	980	71	1.2	43	14	14	ND<0.5	ND<0.5	ND<0.5	11
MW-4	4/13/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/6/10	ND<50	ND<0.5	ND<0.5	0.62	0.83	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.65	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/5/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-5	4/13/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-6	4/14/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/6/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.64	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/6/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-7	4/13/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/5/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-8	4/13/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-9	4/14/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-10	4/14/10	4,300	ND<0.5	ND<0.5	24	6.9	0.80	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/7/10	3,600	ND<0.5	ND<0.5	2.0	9.1	1.8	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	2,900	ND<0.5	ND<0.5	ND<0.5	2.0	0.88	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	3,500	ND<0.5	ND<0.5	1.6	2.1	0.59	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/5/11	4,000	ND<0.5	0.55	34	11	1.7	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-11	4/14/10	260	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.77	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/7/10	400	ND<0.5	ND<0.5	ND<0.5	0.80	1.9	ND<0.5	ND<0.5	ND<0.5	ND<5

TABLE 2

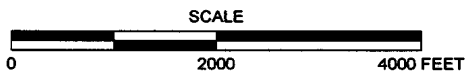
**GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107**

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-11 (cont.)	10/27/10	130	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.74	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/25/11	240	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.77	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/5/11	250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-12	4/13/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/5/11	53	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
RW-1	4/13/10	ND<50	4.2	ND<0.5	4.8	1.1	9.7	ND<0.5	ND<0.5	ND<0.5	7.5
	7/6/10	ND<50	0.82	ND<0.5	ND<0.5	ND<0.5	8.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/28/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.4	ND<0.5	ND<0.5	ND<0.5	6.6
	1/25/11	230	17	ND<0.5	1.2	ND<0.5	9.6	ND<0.5	ND<0.5	ND<0.5	9.3
	4/5/11	410	26	0.52	7.6	3.9	8.3	ND<0.5	ND<0.5	ND<0.5	8.1
RW-2	4/14/10	390	ND<0.5	ND<0.5	ND<0.5	1.1	0.97	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/7/10	380	ND<0.5	ND<0.5	ND<0.5	0.79	0.82	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/28/10	220	ND<0.5	ND<0.5	ND<0.5	0.67	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/25/11	460	ND<0.5	ND<0.5	ND<0.5	0.70	0.52	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/6/11	280	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
OS-1	1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
OS-2	1/25/11	1,200	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5
OS-3	1/25/11	140	13	ND<0.5	3.1	0.64	25	ND<0.5	ND<0.5	ND<0.5	6.7
OS-4	1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5
PT-1	4/14/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	7/6/10	61	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	10/28/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	4/6/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5

- (a) Samples collected before January 2008 reported by others; data provided by RDM Environmental, Inc. (RDM), Fourth Quarter 2007 Groundwater Monitoring Report.
- (b) Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, xylenes, methyl tert-butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), tert-butyl alcohol (TBA), analyzed by EPA Method 8260; reported in micrograms per liter (µg/l).
- (c) Environmental Screening Levels (ESLs) taken from Regional Water Quality Control Board, San Francisco Bay Region, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Volume 1: Summary Tier 1 Lookup tables dated November 2007.
- (d) NE - Not established.
- (e) ND - Not detected at the reporting limit listed.



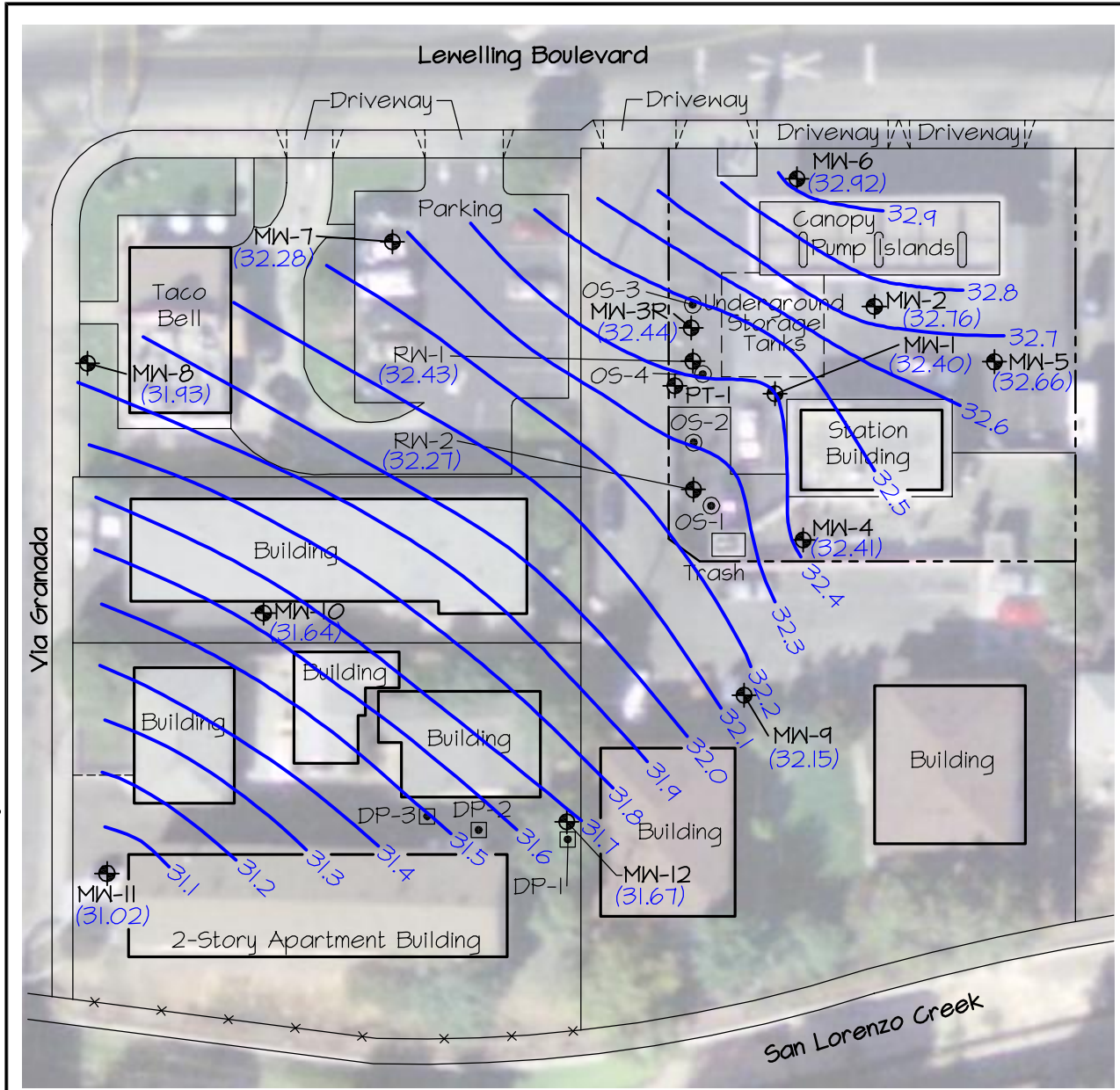
SITE



REFERENCE
 7.5 MINUTE USGS TOPOGRAPHIC MAPS OF
 SAN LEANDRO AND HAYWARD, CALIFORNIA QUADRANGLES
 DATE: 1959, PHOTOREVISED 1980
 SCALE = 1:24,000

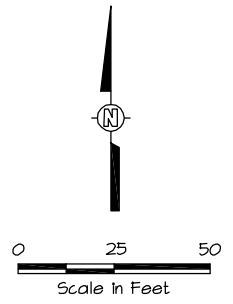
ARCTOS ENVIRONMENTAL			
TESORO - SAN LORENZO, 67107			
SITE LOCATION MAP			
PROJECT NO. 01ZO	DRAWN BY MP	CHECKED BY MP	APPROVED BY JG
FILE NO. Site Map.xls	FIGURE 1		

01Z011B0513.dwg
6/28/2011 12:39PM



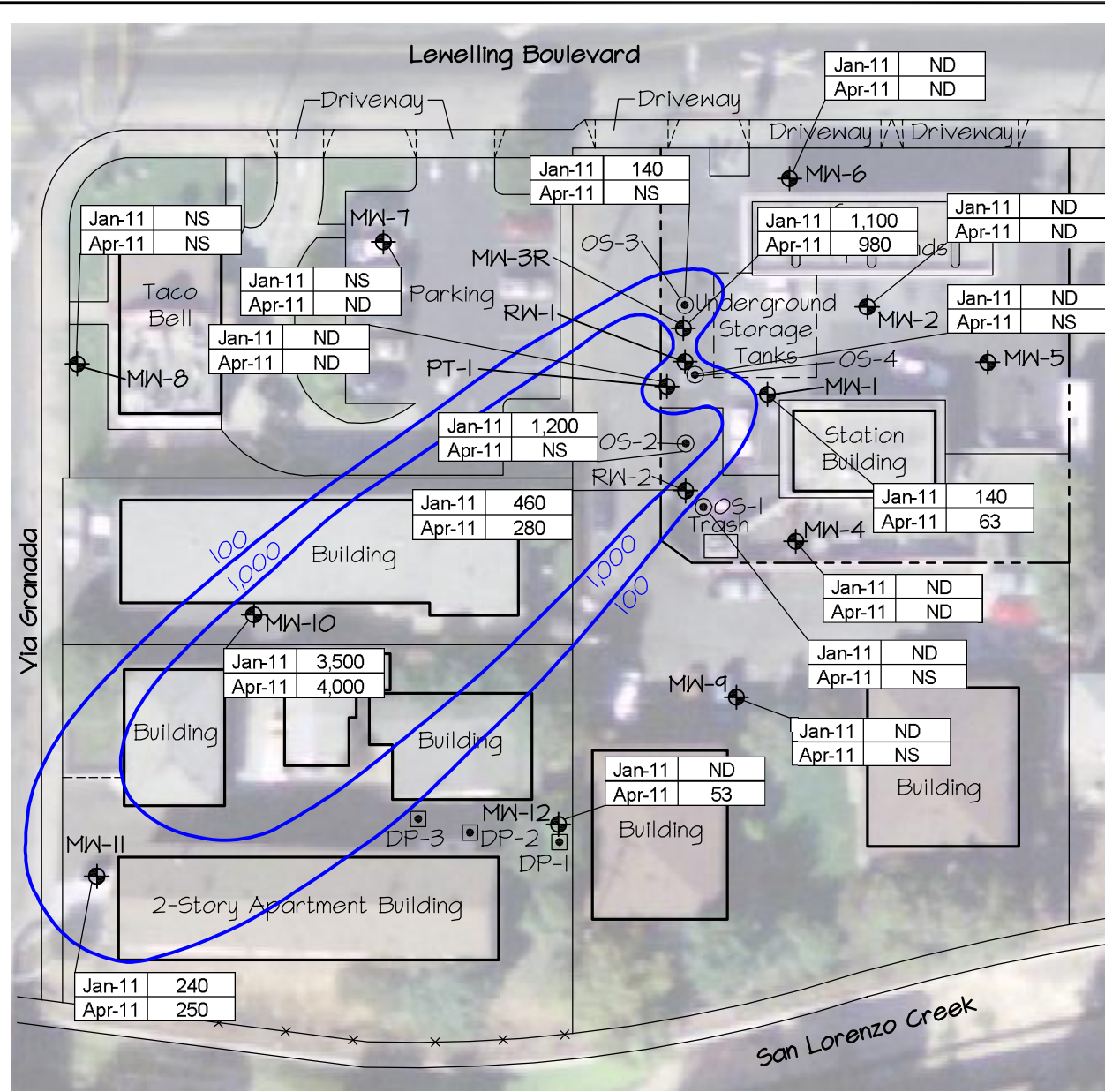
Legend

- MW-1 Monitoring Well with 5 April 2011 Groundwater Elevation (Feet MSL) (32.40)
- DP-1 Soil Boring
- OS-1 Oxygen Injection Well
- 31.1 Groundwater Elevation Contour (Feet MSL)



REVISION	REVISIONS			
	NO.	BY	DATE	DESCRIPTION
13	10	MY	9/14/10	Third Quarter 2010 Status Report
	11	MY	11/18/10	Fourth Quarter 2010 Status Report
	12	MY	2/14/11	First Quarter 2011 Status Report
	13	MY	6/20/11	Second Quarter 2011 Status Report

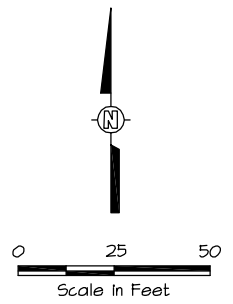
ARCTOS ENVIRONMENTAL			
TESORO - SAN LORENZO			
SITE PLAN			
PROJECT NO. OIZO	DRAWN BY MY	CHECKED BY MP	APPROVED BY JPG
FILE NO. OIZO11B0513.DWG		FIGURE 2	



Legend

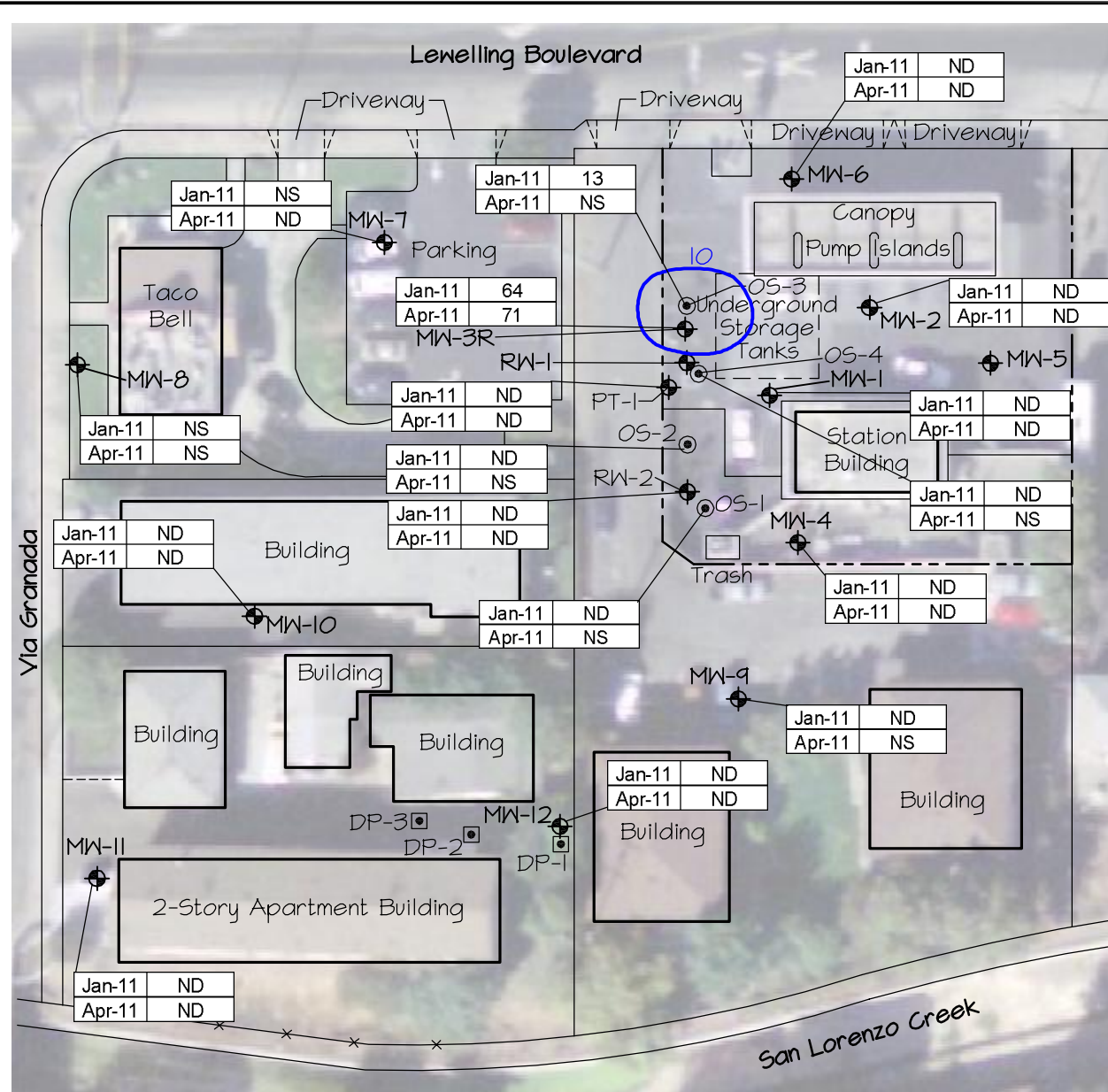
- MW-I Monitoring Well with 25 January and 5 or 6 April 2011 Total Petroleum Hydrocarbons as Gasoline (TPHg) Results in $\mu\text{g/l}$
- DP-I Soil Boring
- OS-I Oxygen Injection Well
- ND Not Detected

100 TPHg Concentration Contour ($\mu\text{g/l}$), Queried Where Uncertain



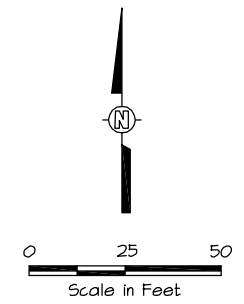
REVISION	REVISIONS			
	NO.	BY	DATE	DESCRIPTION
13	10	MY	9/14/10	Third Quarter 2010 Status Report
	11	MY	11/12/10	Fourth Quarter 2010 Status Report
	12	MY	2/14/11	First Quarter 2011 Status Report
	13	MY	6/20/11	Second Quarter 2011 Status Report

ARCTOS ENVIRONMENTAL			
TESORO - SAN LORENZO			
TPHg CONCENTRATION CONTOURS IN GROUNDWATER			
PROJECT NO. O1ZO	DRAWN BY MY	CHECKED BY MP	APPROVED BY JPG
FILE NO. O1ZO11B0213.DWG		FIGURE 3	



Legend

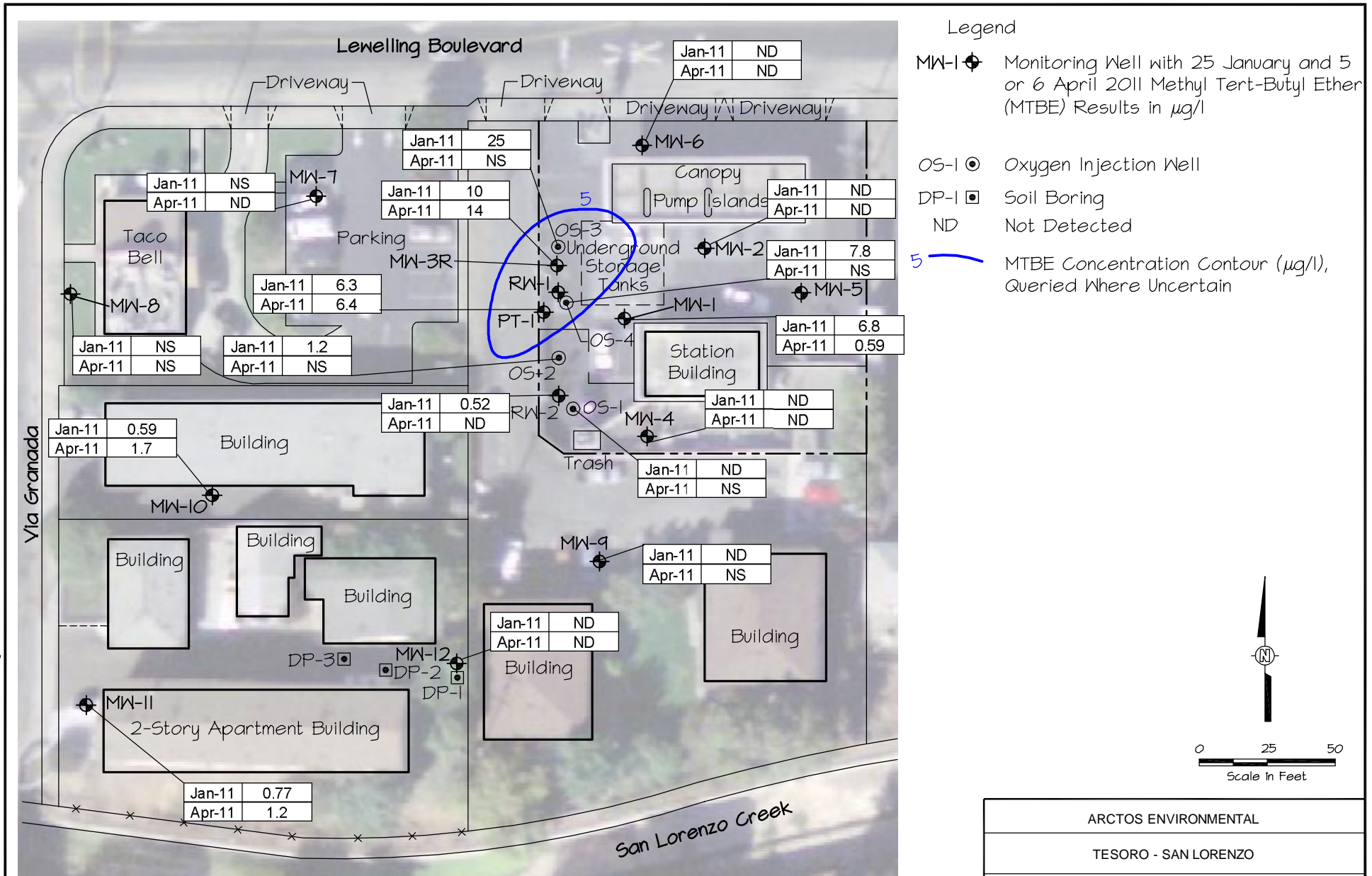
- MW-I Monitoring Well with 25 January and 5 or 6 April 2011 Benzene Results in $\mu\text{g/l}$
- OS-I Oxygen Injection Well
- DP-I Soil Boring
- ND Not Detected
- 10 Benzene Concentration Contour ($\mu\text{g/l}$), Queried Where Uncertain



REVISION	REVISIONS			
	NO.	BY	DATE	DESCRIPTION
13	10	MY	9/14/10	Third Quarter 2010 Status Report
	11	MY	11/12/10	Fourth Quarter 2010 Status Report
	12	MY	2/14/11	First Quarter 2011 Status Report
	13	MY	6/20/11	Second Quarter 2011 Status Report

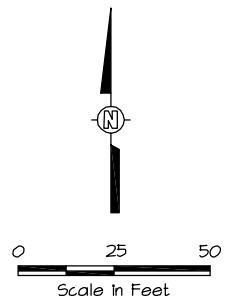
ARCTOS ENVIRONMENTAL			
TESORO - SAN LORENZO			
BENZENE CONCENTRATION CONTOURS IN GROUNDWATER			
PROJECT NO. O1ZO	DRAWN BY MY	CHECKED BY MP	APPROVED BY JPG
FILE NO. O1ZO11B0313.DWG		FIGURE 4	

6/29/2011 10:28AM 01Z011B0413.dwg



Legend

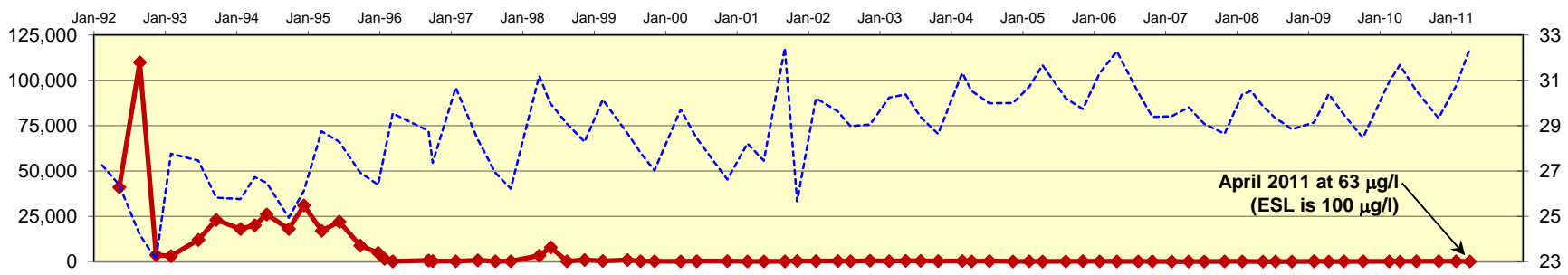
- MW-I Monitoring Well with 25 January and 5 or 6 April 2011 Methyl Tert-Butyl Ether (MTBE) Results in µg/l
- OS-I Oxygen Injection Well
- DP-I Soil Boring
- ND Not Detected
- 5 MTBE Concentration Contour (µg/l), Queried Where Uncertain



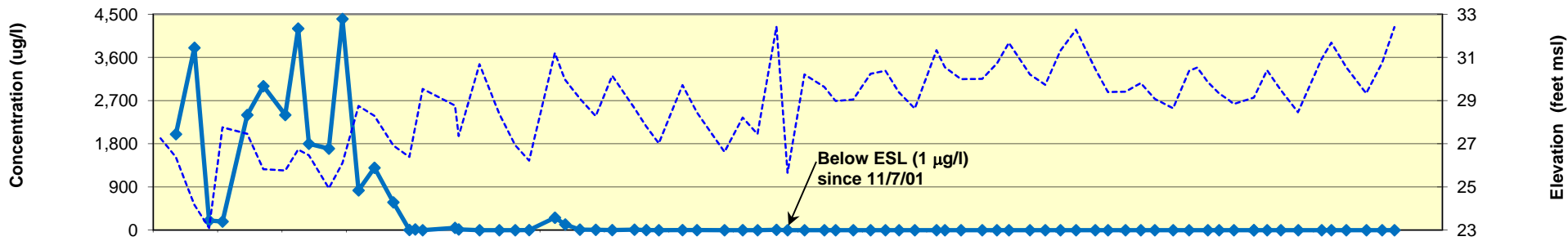
REVISION	REVISIONS			
	NO.	BY	DATE	DESCRIPTION
13	10	MY	9/14/10	Third Quarter 2010 Status Report
	11	MY	11/12/10	Fourth Quarter 2010 Status Report
	12	MY	2/14/11	First Quarter 2011 Status Report
	13	MY	6/20/11	Second Quarter 2011 Status Report

ARCTOS ENVIRONMENTAL			
TESORO - SAN LORENZO			
MTBE CONCENTRATION CONTOUR IN GROUNDWATER			
PROJECT NO. OIZO	DRAWN BY MY	CHECKED BY MP	APPROVED BY JPG
FILE NO. OIZO11B0413.DWG		FIGURE 5	

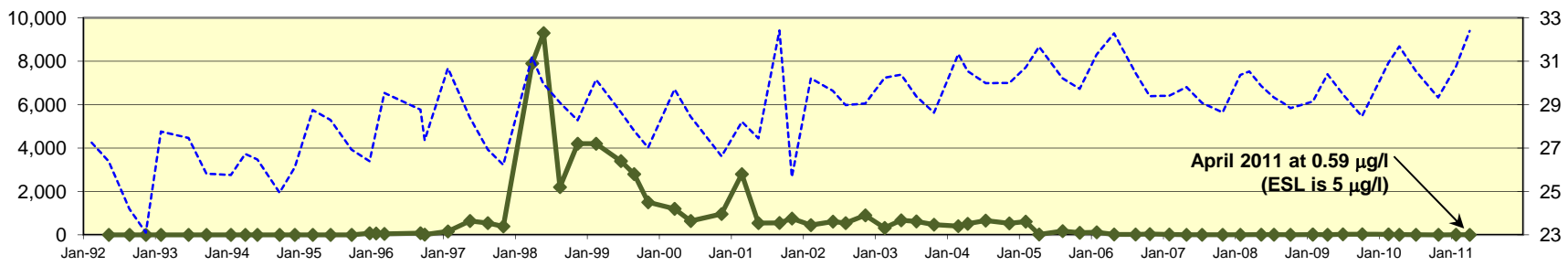
TPHg and Groundwater Elevation



Benzene and Groundwater Elevation



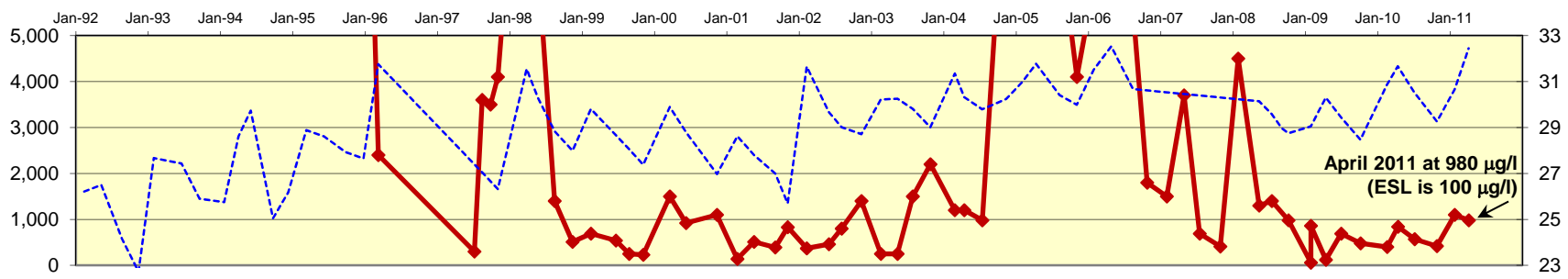
MTBE and Groundwater Elevation



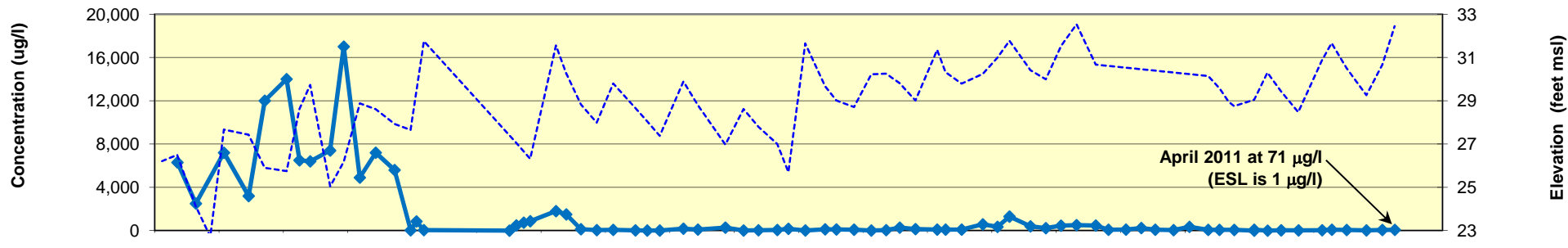
Date

◆ TPHg
 ◆ Benzene
 ◆ MTBE
 - - - Groundwater Elevation

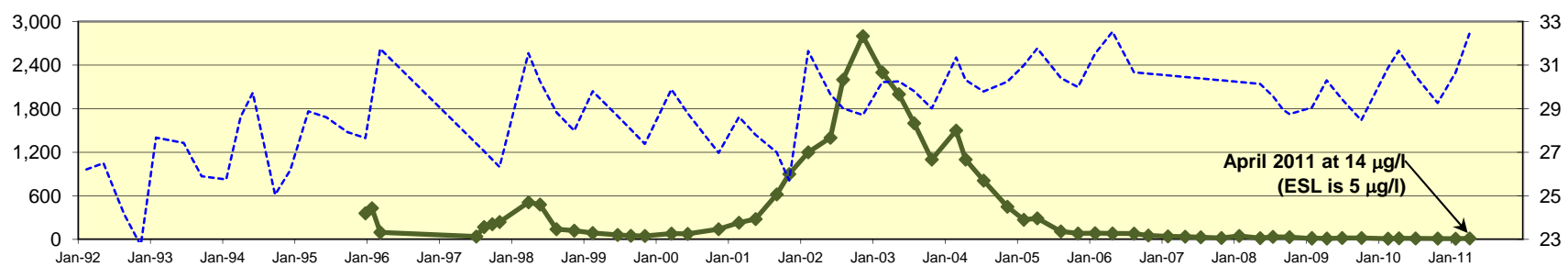
TPHg and Groundwater Elevation



Benzene and Groundwater Elevation



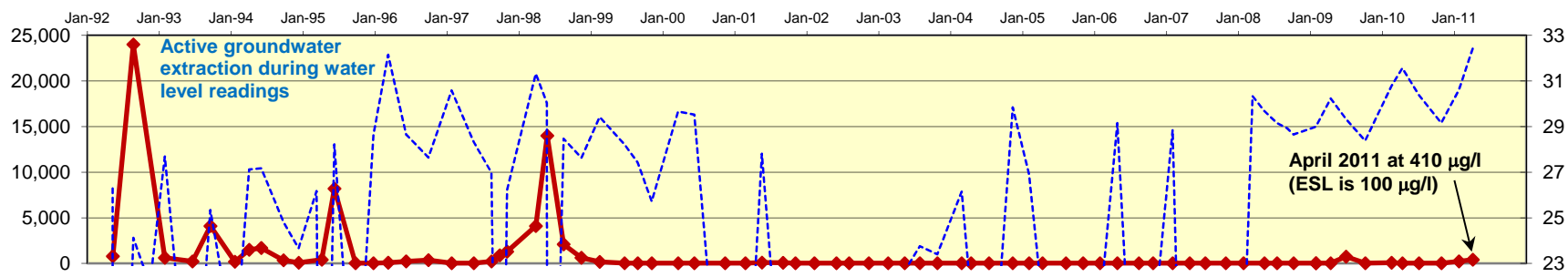
MTBE and Groundwater Elevation



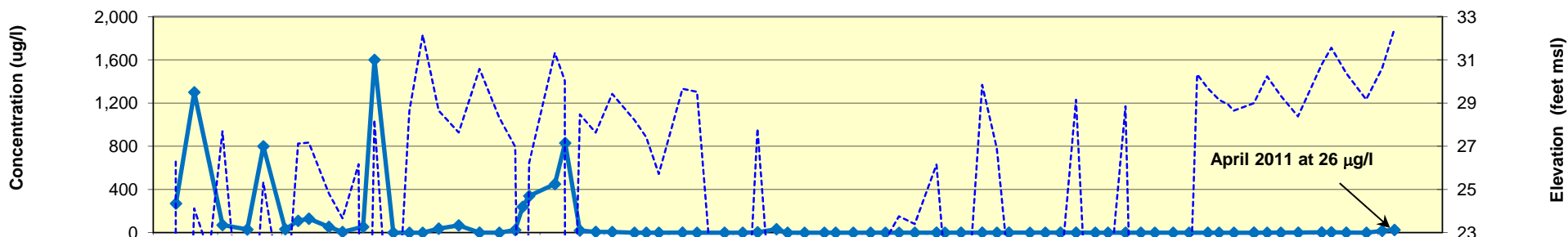
Date

◆ TPHg
 ◆ Benzene
 ◆ MTBE
 - - - - Groundwater Elevation

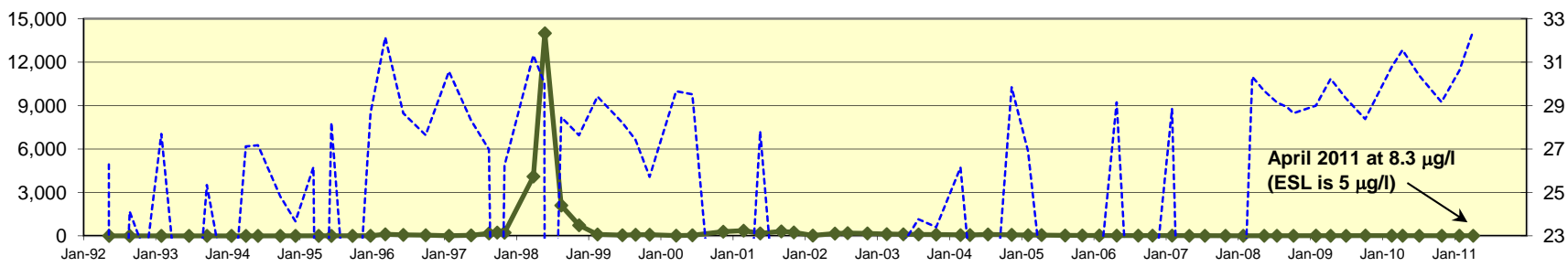
TPHg and Groundwater Elevation



Benzene and Groundwater Elevation



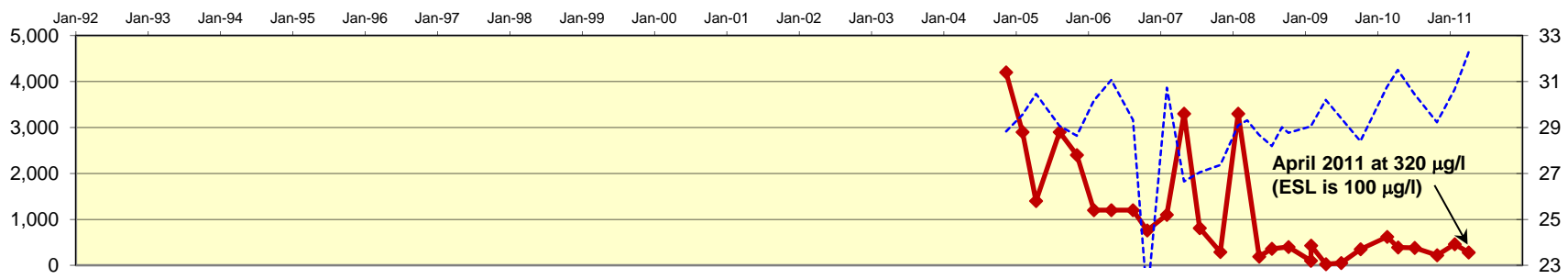
MTBE and Groundwater Elevation



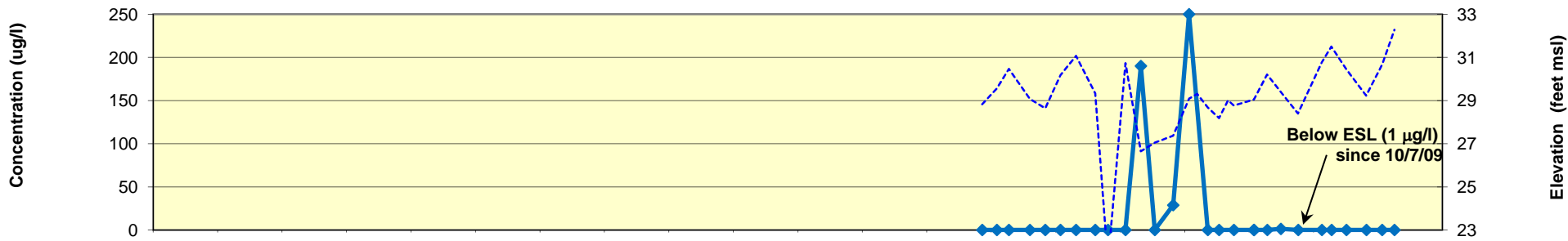
Date

◆ TPHg
 ◆ Benzene
 ◆ MTBE
 - - - - Groundwater Elevation

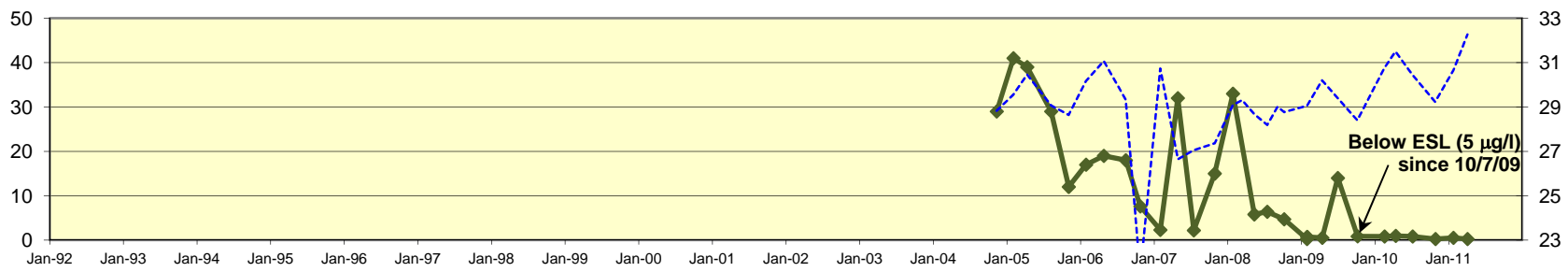
TPHg and Groundwater Elevation



Benzene and Groundwater Elevation



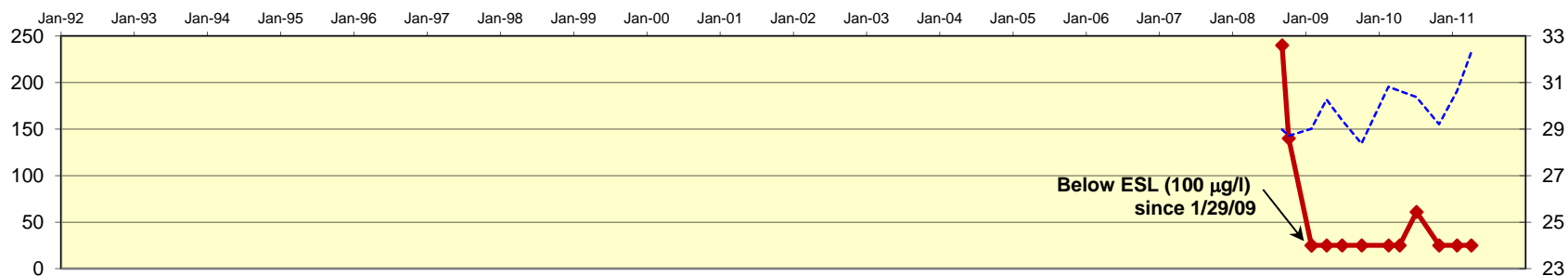
MTBE and Groundwater Elevation



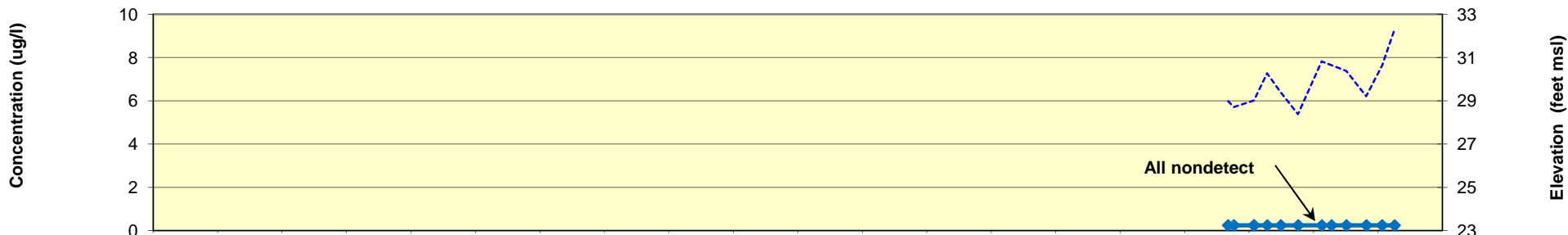
Date

◆ TPHg
 ◆ Benzene
 ◆ MTBE
 - - - - Groundwater Elevation

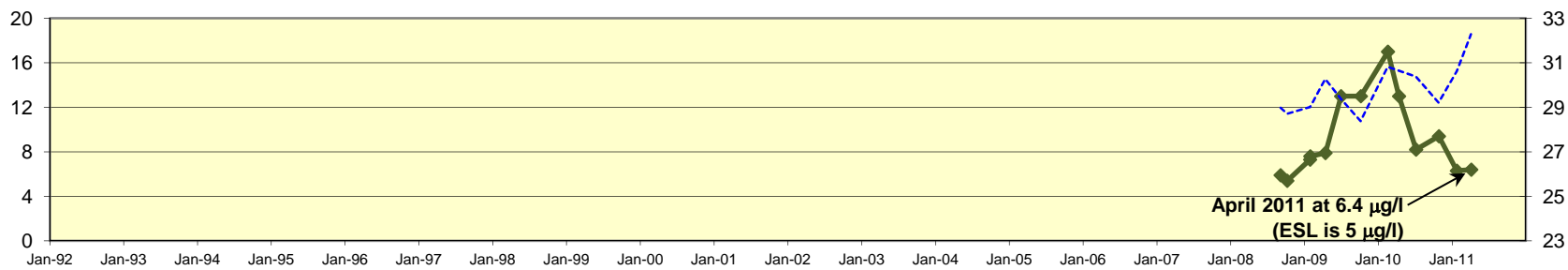
TPHg and Groundwater Elevation



Benzene and Groundwater Elevation



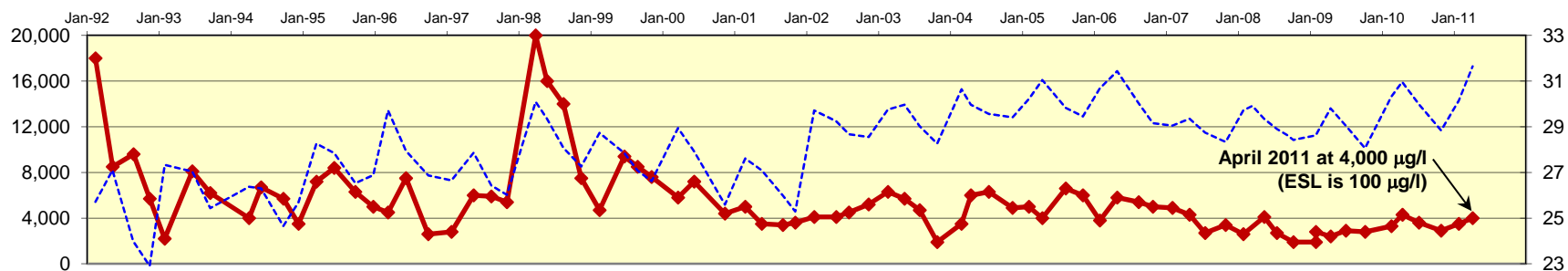
MTBE and Groundwater Elevation



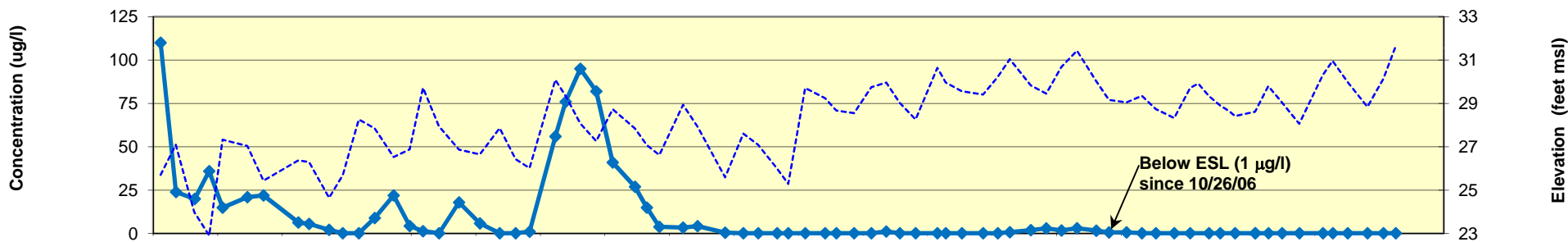
Date

◆ TPHg
 ◆ Benzene
 ◆ MTBE
 - - - - Groundwater Elevation

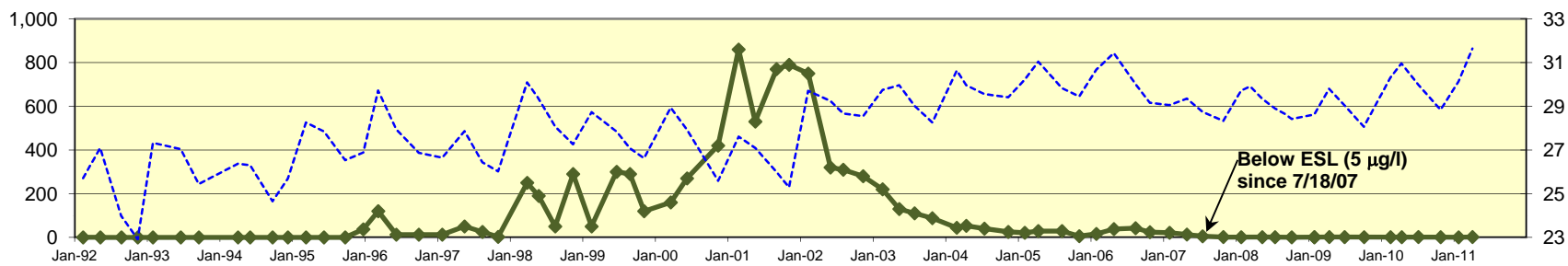
TPHg and Groundwater Elevation



Benzene and Groundwater Elevation



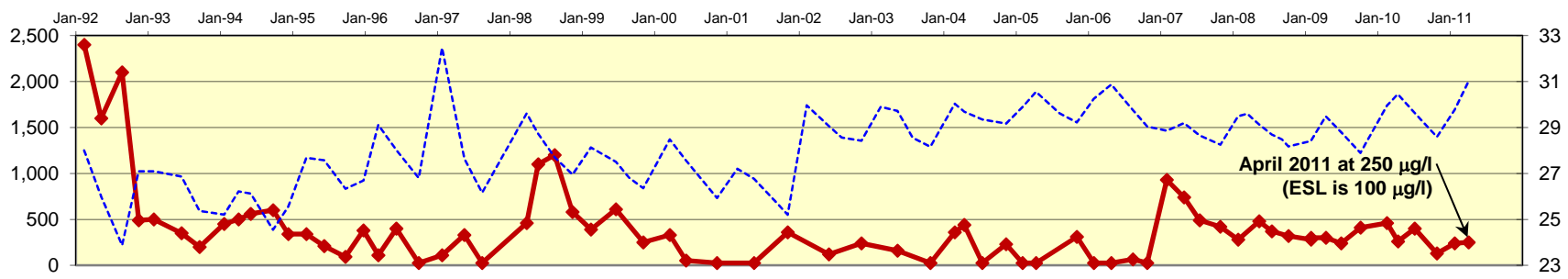
MTBE and Groundwater Elevation



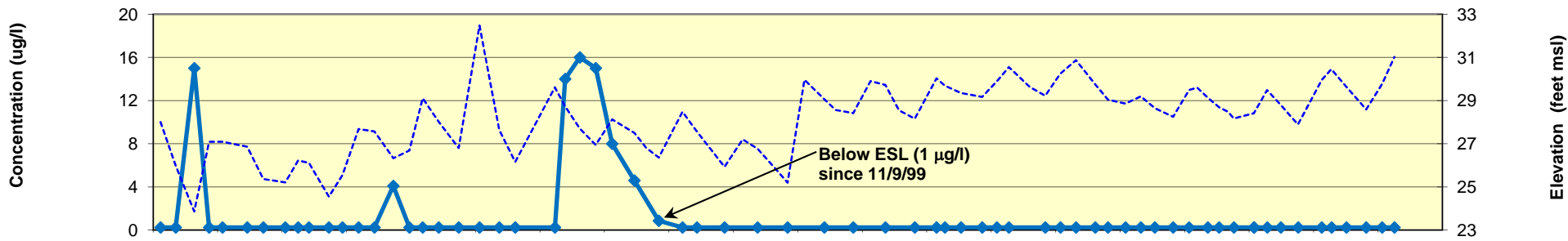
Date

◆ TPHg
 ◆ Benzene
 ◆ MTBE
 - - - Groundwater Elevation

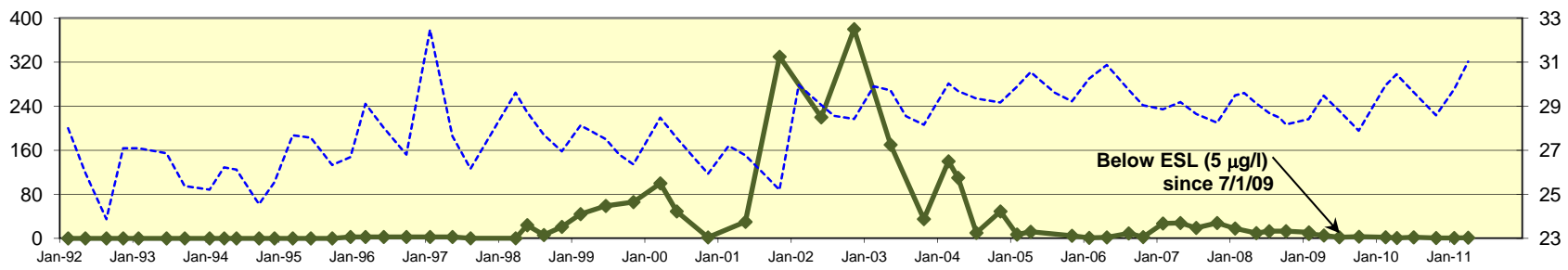
TPHg and Groundwater Elevation



Benzene and Groundwater Elevation



MTBE and Groundwater Elevation



Date

◆ TPHg
 ◆ Benzene
 ◆ MTBE
 - - - Groundwater Elevation

ATTACHMENT A
GROUNDWATER SAMPLING QA/QC PROCEDURES

ATTACHMENT A
GROUNDWATER SAMPLING QA/QC PROCEDURES

Monitoring Plan

Arctos conducted groundwater monitoring in accordance with the following monitoring plan approved by Alameda County Environmental Health (ACEH) in a 28 April 2011 letter:

Well Designation	Location	Sampling Frequency
MW-1	Upgradient	Semiannual (2nd and 4th quarters)
MW-3R, RW-1, RW-2, and PT-1	On site	
MW-10 and MW-11	Downgradient	
MW-2, MW-4, and MW-6	Upgradient and cross gradient	Annual (2nd quarter)
MW-7 and MW-12	Downgradient	

Analytical Plan

Groundwater samples were analyzed by Kiff Analytical LLC (Kiff), a State-certified laboratory in Davis, California for total petroleum hydrocarbons as gasoline (TPHg); benzene, toluene, ethylbenzene, and total xylenes (BTEX); methyl tert-butyl ether (MTBE); and other oxygenates using EPA Method 8260B.

Arctos, as Tesoro's Authorized Responsible Party for the site, electronically submitted the groundwater monitoring results to the State Water Resources Control Board (SWRCB). The data were submitted in the State-mandated EDF format, in accordance with Assembly Bill 2886 requirements for underground storage tank (UST) sites in California. The EDFs including laboratory analytical data and quarterly groundwater elevations were transmitted through the Geotracker web portal

Purge-and-Bail Sampling

The depth to groundwater and total well depth were measured before sampling using an electronic water well sounder. Before sampling, at least 3 casing volumes were purged from each monitoring well using a submersible pump. Throughout purging, pH, conductivity, turbidity, and temperature were measured and recorded for the evacuated groundwater. These measurements were used to confirm that the well was purged sufficiently. Water samples were generally collected after the measurements of pH, conductivity, and temperature had stabilized to within 10 percent of the previous readings. Copies of the well purging and sampling logs are provided in Attachment B.

Sampling was performed with a new 1-1/2-inch-diameter disposable polyethylene bailer suspended from new nylon line. The bailer was equipped with a bottom-release device. Groundwater was collected with the bailer from just below the water surface in each monitoring well. Water samples were collected from the bailers in new 40-milliliter glass bottles provided by the analytical laboratory. The samples were collected so that no headspace was present in each bottle. The preservatives necessary for the analyses performed were provided in the glass bottles by the analytical laboratory.

The collected water samples were placed in sealable plastic bags and packed on ice in a portable ice chest immediately after collection. Samples were delivered within 24 to 48 hours to the analytical laboratory. Additional field procedures, including the use of sample identification labels and chain-of-custody forms, were followed to track sample collection and delivery.

General Field Quality Assurance/Control (QA/QC) Procedures

Chain-of-Custody Records

Chain-of-custody records were completed before samples were packaged for shipment. One copy of these records was placed in the project file. A second copy accompanied samples during transportation to the laboratory. The individual in the analytical laboratory who accepted responsibility for samples signed and dated the chain-of-custody record.

Equipment Decontamination Procedures

Field equipment was decontaminated between sampling events using the following procedures:

1. Rinsed with water using a brush to remove soil and mud.
2. Washed with non-phosphate detergent and water using a brush.
3. Rinsed with deionized or distilled water.
4. Rinsed again with deionized or distilled water.
5. Air dried.

Additional decontamination procedures are presented below:

1. Personnel dressed in suitable personal protective equipment (PPE) to reduce personal exposure.
2. Equipment that would be damaged by water (such as the battery portion of water level indicator or the pH and conductivity meters) was carefully

wiped clean using a sponge and dried with new paper towels. Care was taken to prevent damage to the equipment.

3. When conducting a groundwater sampling event, evacuation and sampling equipment was decontaminated before sampling operations, between each well, and at the end of the sampling event. If dedicated equipment was used, it was rinsed with deionized water.
4. Detergent waters and rinse waters were replaced periodically depending on level of contamination. Used detergent and rinse waters were contained in 55-gallon drums approved by the Department of Transportation (DOT) or holding tanks for storage.

Personal Decontamination Procedures

At a minimum, field personnel followed the following decontamination procedures:

1. Wore appropriate gloves
2. Washed hands thoroughly with soap and water
3. Avoided unnecessary contact with groundwater.

The site health and safety plan was reviewed for site-specific personal decontamination procedures.

Wastewater and Solid Waste Storage and Disposal

Small volumes of used wash and rinse solutions were collected during field work and transported to a central decontamination area. This wastewater was containerized in labeled 55-gallon DOT drums or holding tanks and stored in a secured area at the site. At the completion of field investigation activities or a groundwater sampling event, samples from the 55-gallon drums or holding tanks were collected and analyzed in accordance with the work or sampling plans. Once the analytical results were obtained, the Project Manager determined the appropriate disposal method for this wastewater. Non-hazardous waste manifests are included in Attachment G.

Solid wastes such as used personal protective equipment, paper towels, trash bags, and any other solid debris were collected for disposal. Because the sampled groundwater was not a hazardous waste, the solid wastes were disposed with the onsite trash.

Field Investigation Documentation Procedures

Field personnel followed documentation procedures developed for site investigation work. The procedures served to (1) provide a record of the activities performed in the field and

(2) permit identification of samples and tracking of their status in the field, during shipment, and at the laboratory. All documentation was recorded with waterproof ink.

Groundwater sampling activities were documented on daily field reports and on the well purge and sample log.

Health and Safety

Arctos used a site-specific health and safety plan (HSP) with procedures that were followed by field personnel for equipment safety, medical surveillance, personal protection, air quality monitoring, exposure control, emergency response, and general work practices during field activities. Before beginning work at the site, a site safety meeting was conducted. Field personnel reviewed the HSP and signed the accompanying acknowledgment form before initiating field activities. Field personnel were required to comply with the HSP throughout performance of site assessment activities.

Analytical QA/QC Procedures

Laboratory analytical QA/QC procedures included (1) preparing and analyzing laboratory samples to assess the performance of the analytical laboratory and (2) conducting data validation in accordance with the protocols described below. QC samples prepared by the laboratory included method blanks, matrix spike and matrix spike duplicates, and laboratory control samples.

The laboratory results were reviewed in general accordance with EPA guidelines for data validation. The data validation process included reviewing laboratory results for the following parameters:

- Completeness of the data package
- Compliance with EPA-required holding times
- Agreement of dilution factors with reported detection limits
- Presence or absence of analytes in the method blanks
- Agreement of duplicate samples
- Percent recovery and relative percent difference results for matrix spike and matrix spike duplicate analyses
- Percent recovery results for laboratory control samples.

ATTACHMENT B
FIELD DATA SHEETS

Equipment Calibration Log

Equipment make/model	Equipment ID/serial number	Date	Time	Calibration Standards	Equipment Reading	Equipment Calibrated	Temp (°C/°F)	Tech init.	Comments
Illhammer	0222421	6/13/12	800	4, 7, 10	4.0, 7.0 10.0	y	23	Bm	
↓	↓	↓	↓	1413	1413	y	23	Bm	
↓	0226442	↓	↓	4, 7, 10	4.0, 7.0 10.0	y	23	Bm	
↓	↓	↓	↓	1413	1413	y	23	Bm	
Pro odo	#1	11/13/12	745	100%	100%	y	—	Bm	

Notes/comments:

Water Level Measurements

Job Number: *MI-120613* Date: *6/13/12* Client: *Orian*

Site: *Tesoro 67107* *San Lorenzo*

Well I.D.	Time	Dia	Depth to NAPL	Thickness of NAPL	Depth to water (DTW)	Total Depth (measured)	Total Depth (historical)	Ref Point (TOC/ TOB)	PRE D.O.
MW-1	846	2			15.90	33.40		TOC	
MW-2	844	2			14.91	33.90			
MW-3R	853	6			14.77	28.10			
MW-4	841	2			14.92	24.55			
<i>G/O</i> MW-5	804	2			15.87	29.30			
MW-6	838	2			14.53	28.60			
MW-7	828	2			14.03	24.20	1.14		
<i>G/O</i> MW-8	824	2			15.05	23.09	—		
<i>G/O</i> MW-9	833	2			17.29	23.70	—		
MW-10	820	2			15.13	28.70	0.98		
MW-11	814	2			18.11	29.40	0.84		
MW-12	810	2			17.29	28.21	1.15		
PT-1	800	4			110.09	29.71			
RW-1	849	6			15.49	35.51			
RW-2	857	6			116.02	26.55			

Purging And Sampling Data Sheet

Job#: M1-120613	Sampler: B Myers J McBurney	Client: Orion
Well ID: <u>MW-2</u>	Date: 6/13/12	Site: San Lorenzo
Well diam: 1/4" 1" <u>2"</u> 3" 4" 6" Other:	DTW: <u>14.91</u>	Total Depth: <u>33.90</u>
Purge equip: <u>ES - diam</u> Bladder Peri Waterra Positive Air Displacement Ext. System disp bailer teflon bailer other:	Tubing: OD: New Dedicated NA	
Purge method: <u>3-5 Case Volume</u> Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius ² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = 3 x 3 = 9 (Total Purge)

80% = 18.71

Time	Temp (°F)	pH	Cond (mS/µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	Notes
929	19.8	7.0	795	15	—	3	
932	19.9	7.0	832	12	—	6	
935	19.9	7.0	863	12	—	9	

Did well dewater? YES NO Total volume removed: 9 (gal / L)

Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:

Sample date: 6/13/12 Sample time: 940 DTW at sample: 15.16

Sample ID: MW-2 Lab: Kiff Number of bottles: 3

Analysis: See COC

Equipment blank ID @ Field blank ID @

Duplicate ID: Pre-purge DO: 2.04 Post purge DO:

Fe²⁺: Pre-purge ORP: 169 Post purge ORP:

NAPL depth: Volume of NAPL: Volume removed: ml

Purging And Sampling Data Sheet

Job#: M1-120613	Sampler: B Myers J McBurney	Client: Orion
Well ID: PT-1	Date: 6/13/12	Site: San Lorenzo
Well diam: 1/4" 1" 2" 3" <u>4"</u> 6" Other:	DTW: <u>11.09</u>	Total Depth: <u>29.71</u>
Purge equip: <u>ES - diam</u> Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other: Tubing: OD: New Dedicated NA		
Purge method: <u>3-5 Case Volume</u> Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	Multipliers: 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"= 1.02 6"= 1.47 Radius ² X 0.163	
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = 8.9 X 3 = 26.7 (Total Purge)

80% = 18.81

Time	Temp (°C/°F)	pH	Cond (mS/µS)	Turbidity (NTU)	Purge Rate (gal or mL/min)	Volume Removed (gal/L)	Notes
858	19.8	6.7	997	22	.2	9	
903	20.0	6.7	1005	20	1	18	
907					1	27	
	Well dewatered @				18	gallons	
1120	19.8	7.3	952	13	—		

Did well dewater? YES NO Total volume removed: 2718 (gal/L)

Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:

Sample date: 6/13/12 Sample time: 1120 DTW at sample: 11.27

Sample ID: PT-1 Lab: Kiff Number of bottles: 10

Analysis: See COC

Equipment blank ID @	Field blank ID @
Duplicate ID:	Pre-purge DO: <u>2.39</u> Post purge DO:
Fe ²⁺ :	Pre-purge ORP: <u>257</u> Post purge ORP:
NAPL depth:	Volume of NAPL: Volume removed: ml

ATTACHMENT C
HISTORICAL GROUNDWATER ELEVATIONS

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-1	2/18/92	16.42	43.67	27.25
	5/14/92	17.28		26.39
	5/15/92	NM ^(c)		-- ^(d)
	8/27/92	19.48		24.19
	8/28/92	NM		--
	11/19/92	20.57		23.10
	2/3/93	15.91		27.76
	6/23/93	16.21		27.46
	9/22/93	17.85		25.82
	1/24/94	17.91		25.76
	4/7/94	16.94		26.73
	6/7/94	17.20		26.47
	9/28/94	18.73		24.94
	12/14/94	17.56		26.11
	3/15/95	14.92		28.75
	6/13/95	15.38		28.29
	9/28/95	16.75		26.92
	12/28/95	17.28		26.39
	1/30/96	NM		--
	3/12/96	14.13		29.54
	9/11/96	14.90		28.77
	10/2/96	16.31		27.36
	1/28/97	12.99		30.68
	5/20/97	15.28		28.39
	8/18/97	16.74		26.93
	9/29/97	NM		--
	11/5/97	17.45		26.22
	3/31/98	12.47		31.20
5/26/98	13.69	29.98		
5/28/98	NM	--		
8/19/98	14.58	29.09		
11/17/98	15.39	28.28		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)	
MW-1 (cont.)	2/18/99	13.52	43.67	30.15	
	6/24/99	15.02		28.65	
	8/30/99	15.87		27.80	
	11/9/99	16.65		27.02	
	3/22/00	13.96		29.71	
	6/12/00	15.23		28.44	
	11/15/00	17.05		26.62	
	2/26/01	15.46		28.21	
	5/21/01	16.22		27.45	
	9/5/01	11.25		32.42	
	11/7/01	18.01		25.66	
	2/11/02	15.77		45.98	30.21
	6/3/02	16.35			29.63
	8/6/02	17.00	28.98		
	11/14/02	16.93	29.05		
	2/20/03	15.74	30.24		
	5/15/03	15.60	30.38		
	7/31/03	16.60	29.38		
	10/28/03	17.35	28.63		
	2/28/04	14.65	31.33		
	4/16/04	15.44	30.54		
	7/16/04	15.99	29.99		
	11/13/04	15.98	30.00		
	2/4/05	15.27	30.71		
	4/13/05	14.31	31.67		
	8/10/05	15.77	30.21		
	11/5/05	16.25	29.73		
	1/30/06	14.67	31.31		
	4/28/06	13.70	32.28		
	8/15/06	15.52	30.46		
10/26/06	16.59	29.39			
2/2/07	16.57	29.41			

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-1 (cont.)	4/30/07	16.17	45.98	29.81
	7/18/07	16.90		29.08
	10/30/07	17.34		28.64
	1/28/08	15.61		30.37
	3/14/08	15.45		30.53
	5/13/08	16.12		29.86
	7/16/08	16.65		29.33
	9/5/08	17.31		46.36
	10/8/08	17.52	28.84	
	1/29/09	17.22	29.14	
	4/14/09	15.96	30.40	
	7/1/09	16.88	29.48	
	10/6/09	17.90	28.46	
	2/17/10	15.43	30.93	
	4/13/10	14.68	31.68	
	7/6/10	15.82	30.54	
	10/27/10	17.03	29.33	
	1/25/11	15.61	30.75	
	4/5/11	13.96	32.40	
MW-2	2/18/92	16.65	43.09	26.44
	5/14/92	16.64		26.45
	8/27/92	16.61		26.48
	11/19/92	19.91		23.18
	2/3/93	15.23		27.86
	6/23/93	15.55		27.54
	9/22/93	17.22		25.87
	1/24/94	17.20		25.89
	4/7/94	16.26		26.83
	6/7/94	16.46		26.63
	9/28/94	18.06		25.03
	12/14/94	16.86		26.23
	3/15/95	14.08		29.01
	6/13/95	14.67		28.42
9/28/95	16.07	27.02		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-2 (cont.)	12/28/95	16.46	43.09	26.63
	3/12/96	13.11		29.98
	6/13/96	14.14		28.95
	10/2/96	15.71		27.38
	1/28/97	12.05		31.04
	5/20/97	14.65		28.44
	8/18/97	16.00		27.09
	9/29/97	NM		--
	11/5/97	16.75		26.34
	3/31/98	11.54		31.55
	5/26/98	12.78		30.31
	5/28/98	NM		--
	8/19/98	14.40		28.39
	11/17/98	15.18		27.63
	2/18/99	14.07		27.06
	6/24/99	14.70		30.04
	8/30/99	15.46		28.59
	11/9/99	16.03		26.81
	3/22/00	13.05		28.11
	6/12/00	14.50		27.64
	11/15/00	16.28		27.92
	2/26/01	14.98	26.04	
	5/21/01	15.45	29.80	
	9/5/01	15.17	28.25	
	11/7/01	17.05	28.24	
	2/11/02	13.29	45.23	31.94
	6/3/02	14.84		30.39
	8/6/02	14.85		30.38
	11/14/02	15.35		29.88
	2/20/03	14.08		31.15
	5/15/03	14.55		30.68
	7/31/03	15.30		29.93
10/28/03	14.93	30.30		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-2 (cont.)	2/28/04	13.56	45.23	31.67
	4/16/04	14.40		30.83
	7/16/04	15.03		30.20
	11/13/04	15.00		30.23
	2/4/05	14.26		30.97
	4/13/05	13.19		32.04
	8/10/05	14.84		30.39
	11/5/05	15.39		29.84
	1/30/06	13.54		31.69
	4/28/06	12.55		32.68
	8/15/06	14.57		30.66
	10/26/06	15.54		29.69
	2/2/07	15.60		29.63
	4/30/07	15.19		30.04
	7/18/07	15.96		29.27
	10/30/07	16.41		28.82
	1/28/08	14.63		30.60
	3/14/08	14.57		30.66
	5/13/08	15.12		30.11
	7/16/08	15.89		29.34
	9/5/08	16.44	45.61	29.17
	10/8/08	16.75		28.86
	1/29/09	16.35		29.26
	4/14/09	15.05		30.56
	7/1/09	16.02		29.59
10/6/09	17.10	28.51		
2/17/10	14.50	31.11		
4/13/10	13.55	32.06		
7/6/10	14.96	30.65		
10/27/10	16.18	29.43		
1/25/11	14.73	30.88		
4/5/11	12.85	32.76		
MW-3	2/18/92	16.89	43.10	26.21
	5/14/92	16.60		26.50

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-3 (cont.)	5/15/92	NM	43.10	--
	8/27/92	18.96		24.14
	8/28/92	NM		--
	11/18/92	20.38		22.72
	11/19/92	NM		--
	2/3/93	15.43		27.67
	6/23/93	15.67		27.43
	9/22/93	17.20		25.90
	1/24/94	17.35		25.75
	4/7/94	14.48		28.62
	6/7/94	13.37		29.73
	9/28/94	18.05		25.05
	12/14/94	16.92		26.18
	3/15/95	14.22		28.88
	6/13/95	14.49		28.61
	9/28/95	15.17		27.93
	12/28/95	15.45		27.65
	1/30/96	NM		--
	3/12/96	11.35		31.75
	6/11/96	Dry ^(e)		--
	10/2/96	Dry ^(e)		--
	1/28/97	Dry ^(e)		--
	5/20/97	Dry ^(e)		--
	7/10/97	NM		--
	8/18/97	16.05		27.05
	9/29/97	NM		--
	11/5/97	16.78		26.32
	3/31/98	11.55		31.55
	5/26/98	12.80		30.30
	5/28/98	NM		--
8/19/98	14.27	28.83		
11/17/98	15.11	27.99		
2/18/99	13.30	29.80		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-3 (cont.)	6/24/99	14.44	43.10	28.66
	8/30/99	15.05		28.05
	11/9/99	15.72		27.38
	3/22/00	13.21		29.89
	6/12/00	14.31		28.79
	11/15/00	16.13		26.97
	2/26/01	14.48		28.62
	5/21/01	15.30		27.80
	9/5/01	16.10		27.00
	11/7/01	17.40		25.70
	2/11/02	13.56	45.21	31.65
	6/3/02	15.54		29.67
	8/6/02	16.20		29.01
	11/14/02	16.50		28.71
	2/20/03	14.99		30.22
	5/15/03	14.96		30.25
	7/31/03	15.40		29.81
	10/28/03	16.20		29.01
	2/28/04	13.86		31.35
	4/16/04	14.89		30.32
7/16/04	15.42	29.79		
MW-3R	11/13/04	14.97	45.21	30.24
	2/4/05	14.22		30.99
	4/13/05	13.44		31.77
	8/10/05	14.80		30.41
	11/5/05	15.22		29.99
	1/30/06	13.69		31.52
	4/28/06	12.68		32.53
	8/15/06	14.54		30.67
	10/26/06	23.85		21.36
	2/2/07	21.96		23.25
4/30/07	19.40	25.81		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-3R (cont.)	7/18/07	23.11	45.21	22.10
	10/30/07	22.71		22.50
	1/28/08	16.78		28.43
	3/14/08	14.38		30.83
	5/13/08	15.07		30.14
	7/16/08	15.63		29.58
	9/5/08	16.20		28.96
	10/8/08	16.41		28.75
	1/29/09	16.11		29.05
	4/14/09	14.86		30.30
	7/1/09	15.73		29.43
	10/6/09	16.69		28.47
	2/17/10	14.30		30.86
	4/13/10	13.50		31.66
	7/6/10	14.70		30.51
	10/27/10	15.90		29.26
1/25/11	14.50	30.66		
4/5/11	12.72	32.44		
MW-4	2/18/92	18.51	44.66	26.15
	5/14/92	18.22		26.44
	8/27/92	20.47		24.19
	8/28/92	NM		--
	11/19/92	21.58		23.08
	2/3/93	16.98		27.68
	6/23/93	17.23		27.43
	9/22/93	18.83		25.83
	1/24/94	18.86		25.80
	4/7/94	17.90		26.76
	6/7/94	18.08		26.58
	9/28/94	19.70		24.96
	12/14/94	18.55		26.11
	3/15/95	16.14		28.52
	6/13/95	16.41		28.25
9/28/95	17.88	26.78		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-4 (cont.)	12/28/95	17.81	44.66	26.85
	3/12/96	14.77		29.89
	6/11/96	15.88		28.78
	10/2/96	17.40		27.26
	1/28/97	14.11		30.55
	5/20/97	16.24		28.42
	8/18/97	17.59		27.07
	9/29/97	NM		--
	11/5/97	18.24		26.42
	3/31/98	13.61		31.05
	5/26/98	14.78		29.88
	5/28/98	NM		--
	8/19/98	16.15		28.51
	11/17/98	16.93		27.73
	2/18/99	15.30		29.36
	6/24/99	16.35		28.31
	8/30/99	17.12		27.54
	11/9/99	17.60		27.06
	3/22/00	14.98		29.68
	6/12/00	16.26		28.40
	11/15/00	17.98	26.68	
	2/26/01	16.31	28.35	
	5/21/01	17.15	27.51	
	9/5/01	18.22	26.44	
	11/7/01	19.01	25.65	
	2/11/02	16.68	46.98	30.30
	6/3/02	17.29		29.69
	8/6/02	17.92		29.06
	11/14/02	17.92		29.06
	2/20/03	16.72		30.26
	5/15/03	16.51		30.47
7/31/03	17.41	29.57		
10/28/03	18.30	28.68		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-4 (cont.)	2/28/04	15.82	46.98	31.16
	4/16/04	16.42		30.56
	7/16/04	16.94		30.04
	11/13/04	17.00		29.98
	2/4/05	16.25		30.73
	4/13/05	15.33		31.65
	8/10/05	16.74		30.24
	11/5/05	17.23		29.75
	1/30/06	15.62		31.36
	4/28/06	14.71		32.27
	8/15/06	16.46		30.52
	10/26/06	17.45		29.53
	2/2/07	17.52		29.46
	4/30/07	17.10		29.88
	7/18/07	17.81		29.17
	10/30/07	18.25		28.73
	1/28/08	16.65		30.33
	3/14/08	16.48		30.50
	5/13/08	17.11		29.87
	7/16/08	17.63		29.35
	9/5/08	18.29	47.36	29.07
	10/8/08	18.50		28.86
	1/29/09	18.20		29.16
	4/14/09	17.02		30.34
	7/1/09	17.86		29.50
	10/6/09	18.90		28.46
	2/17/10	16.49		30.87
4/13/10	15.80	31.56		
7/6/10	16.82	30.54		
10/27/10	18.02	29.34		
1/25/11	16.64	30.72		
4/5/11	14.95	32.41		
MW-5	2/18/92	17.37	43.79	26.42
	5/14/92	17.29		26.50

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-5	8/27/92	22.18	43.79	21.61
(cont.)	11/19/92	20.68		23.11
	2/3/93	15.91		27.88
	6/23/93	16.24		27.55
	9/22/93	17.93		25.86
	1/24/94	17.82		25.97
	4/7/94	16.91		26.88
	6/7/94	17.10		26.69
	9/28/94	18.73		25.06
	12/14/94	17.53		26.26
	3/15/95	14.96		28.83
	6/13/95	15.30		28.49
	9/28/95	16.74		27.05
	12/28/95	15.10		28.69
	3/12/96	13.67		30.12
	6/11/96	14.88		28.91
	10/2/96	16.42		27.37
	1/28/97	12.83		30.96
	5/20/97	15.33		28.46
	8/18/97	16.69		27.10
	9/29/97	NM		--
	11/5/97	17.37		26.42
	3/31/98	12.40		31.39
	5/26/98	13.62		30.17
	5/28/98	NM		--
	8/19/98	15.19		28.60
	11/17/98	15.89		27.90
	2/18/99	14.23		29.56
	6/24/99	15.29	28.50	
	8/30/99	16.07	27.72	
	11/9/99	16.61	27.18	
	3/22/00	13.81	29.98	
	6/12/00	15.08	28.71	

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-5 (cont.)	11/15/00	16.71	43.79	27.08
	2/26/01	15.05		28.74
	5/21/01	15.91		27.88
	9/5/01	16.99		26.80
	11/7/01	17.51		26.28
	2/11/02	14.31	46.12	31.81
	6/3/02	14.96		31.16
	8/6/02	15.65		30.47
	11/14/02	15.69		30.43
	2/20/03	14.19		31.93
	5/15/03	15.44		30.68
	7/31/03	16.48		29.64
	10/28/03	16.92		29.20
	2/28/04	14.64		31.48
	4/16/04	15.28		30.84
	7/16/04	15.88		30.24
	11/13/04	15.98		30.14
	2/4/05	15.17		30.95
	4/13/05	14.12		32.00
	8/10/05	15.69		30.43
	11/5/05	16.32		29.80
	1/30/06	14.49		31.63
	4/28/06	13.51		32.61
	8/15/06	15.46		30.66
	10/26/06	16.42		29.70
	2/2/07	16.49		29.63
	4/30/07	16.10		30.02
	7/18/07	16.80		29.32
10/30/07	17.25	28.87		
1/28/08	15.47	30.65		
3/14/08	15.46	30.66		
5/13/08	16.15	29.97		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-5 (cont.)	7/16/08	16.71	46.12	29.41
	9/5/08	17.34	46.50	29.16
	10/8/08	17.60		28.90
	1/29/09	17.23		29.27
	4/14/09	15.95		30.55
	7/1/09	16.89		29.61
	10/6/09	18.00		28.50
	2/17/10	15.40		31.10
	4/13/10	14.60		31.90
	7/6/10	15.83		30.67
	10/27/10	17.08		29.42
	1/25/11	15.56		30.94
	4/5/11	13.84		32.66
MW-6	2/18/92	15.87	42.47	26.60
	5/14/92	16.04		26.43
	8/27/92	18.17		24.30
	11/19/92	19.30		23.17
	2/3/93	14.60		27.87
	6/23/93	15.00		27.47
	9/22/93	16.66		25.81
	1/24/94	16.52		25.95
	4/7/94	15.70		26.77
	6/7/94	15.88		26.59
	9/28/94	17.51		24.96
	12/14/94	16.27		26.20
	3/15/95	13.52		28.95
	6/13/95	13.96		28.51
	9/28/95	15.61		26.86
	12/28/95	15.54		26.93
	1/30/96	NM		--
	3/12/96	11.88		30.59
6/11/96	13.52	28.95		
10/2/96	15.10	27.37		
1/28/97	11.18	31.29		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-6 (cont.)	5/20/97	14.00	42.47	28.47
	8/18/97	15.54		26.93
	9/29/97	NM		--
	11/5/97	16.25		26.22
	3/31/98	10.60		31.87
	5/26/98	12.01		30.46
	5/28/98	NM		--
	8/19/98	13.60		28.87
	11/17/98	14.53		27.94
	2/18/99	12.39		30.08
	6/24/99	13.89		28.58
	8/30/99	14.75		27.72
	11/9/99	15.18		27.29
	3/22/00	12.30		30.17
	6/12/00	13.69		28.78
	11/15/00	15.73		26.74
	2/26/01	14.42		28.05
	5/21/01	15.23		27.24
	9/5/01	16.31		26.16
	11/7/01	17.01		25.46
	2/11/02	15.72	44.79	29.07
	6/3/02	16.39		28.40
	8/6/02	18.90		25.89
	11/14/02	18.93		25.86
	2/20/03	15.64		29.15
	5/15/03	14.07		30.72
	7/31/03	15.21		29.58
	10/28/03	15.73		29.06
	2/28/04	13.12		31.67
	4/16/04	13.92		30.87
	7/16/04	14.53		30.26
11/13/04	14.62	30.17		
2/4/05	13.74	31.05		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-6 (cont.)	4/13/05	15.59	44.79	29.20
	8/10/05	14.33		30.46
	11/5/05	14.98		29.81
	1/30/06	12.99		31.80
	4/28/06	11.90		32.89
	8/15/06	14.13		30.66
	10/26/06	15.08		29.71
	2/2/07	15.16		29.63
	4/30/07	14.76		30.03
	7/18/07	15.53		29.26
	10/30/07	16.00		28.79
	1/28/08	14.09		30.70
	3/14/08	14.12		30.67
	5/13/08	14.89		29.90
	7/16/08	15.51		29.28
	9/5/08	16.08		29.09
	10/8/08	16.34		28.83
	1/29/09	15.98		29.19
	4/14/09	14.62		30.55
	7/1/09	15.60		29.57
10/6/09	16.70	28.47		
2/17/10	14.03	31.14		
4/13/10	9.57	35.60		
7/6/10	14.50	30.29		
10/27/10	15.78	29.39		
1/25/11	14.19	30.98		
4/5/11	12.25	32.92		
MW-7	2/18/92	15.51	41.54	26.03
	5/14/92	15.41		26.13
	8/27/92	17.45		24.09
	11/19/92	18.54		23.00
	2/3/93	14.10		27.44
	6/23/93	14.33		27.21
	9/22/93	15.92		25.62

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-7 (cont.)	1/24/94	16.07	41.54	25.47
	4/7/94	15.10		26.44
	6/7/94	15.16		26.38
	9/28/94	16.82		24.72
	12/14/94	15.75		25.79
	3/15/95	14.00		27.54
	6/13/95	13.44		28.10
	9/28/95	14.84		26.70
	12/28/95	14.55		26.99
	3/12/96	11.88		29.66
	6/11/96	13.52		28.02
	10/2/96	14.50		27.04
	1/28/97	11.08		30.46
	5/20/97	13.46		28.08
	8/18/97	14.95		26.59
	9/29/97	NM		--
	11/5/97	15.43		26.11
	3/31/98	10.25		31.29
	5/26/98	11.45		30.09
	5/28/98	NM		--
	8/19/98	13.08		28.46
	11/17/98	13.93		27.61
	2/18/99	12.16		29.38
	6/24/99	13.35		28.19
	8/30/99	14.23		27.31
	11/9/99	14.60		26.94
	3/22/00	11.91		29.63
	6/12/00	13.28		28.26
11/15/00	15.12	26.42		
2/26/01	13.46	28.08		
5/21/01	14.31	27.23		
9/5/01	15.42	26.12		
11/7/01	16.18	25.36		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-7 (cont.)	2/11/02	13.76	43.85	30.09
	6/3/02	14.33		29.52
	8/6/02	15.04		28.81
	11/14/02	15.05		28.80
	2/20/03	14.01		29.84
	5/15/03	13.81		30.04
	7/31/03	14.99		28.86
	10/28/03	15.48		28.37
	2/28/04	12.87		30.98
	4/16/04	13.54		30.31
	7/16/04	13.96		29.89
	11/13/04	14.13		29.72
	2/4/05	13.22		30.63
	4/13/05	12.15		31.70
	8/10/05	13.69		30.16
	11/5/05	14.25		29.60
	1/30/06	12.59		31.26
	4/28/06	11.50		32.35
	8/15/06	13.51		30.34
	10/26/06	14.48		29.37
	2/2/07	14.62		29.23
	4/30/07	14.26		29.59
	7/18/07	14.92		28.93
	10/30/07	15.40	28.45	
	1/28/08	13.47	30.38	
	3/14/08	13.65	30.20	
	5/13/08	14.31	29.54	
7/16/08	14.91	28.94		
9/5/08	15.47	44.24	28.77	
10/8/08	15.83		28.41	
1/29/09	15.46		28.78	
4/14/09	14.16		30.08	

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-7 (cont.)	7/1/09	15.06	44.24	29.18
	10/6/09	16.07		28.17
	2/17/10	13.60		30.64
	4/13/10	17.70		26.54
	7/6/10	14.00		30.24
	10/27/10	15.21		29.03
	1/25/11	13.81		30.43
	4/5/11	11.96		32.28
MW-8	2/18/92	16.57	42.26	25.69
	5/14/92	16.24		26.02
	8/27/92	18.28		23.98
	11/19/92	19.32		22.94
	2/3/93	14.87		27.39
	6/23/93	15.18		27.08
	9/22/93	18.79		23.47
	1/24/94	17.06		25.20
	4/7/94	15.95		26.31
	6/7/94	15.10		27.16
	9/28/94	17.63		24.63
	12/14/94	16.66		25.60
	3/15/95	14.30		27.96
	6/13/95	14.37		27.89
	9/28/95	15.62		26.64
	12/28/95	15.62		26.64
	3/12/96	12.75		29.51
	6/11/96	13.94		28.32
	10/2/96	15.41		26.85
	1/28/97	12.30		29.96
	5/20/97	14.42		27.84
8/18/97	16.16	26.10		
9/29/97	NM	--		
11/5/97	16.25	26.01		
3/31/98	11.49	30.77		
5/26/98	12.60	29.66		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)	
MW-8 (cont.)	5/28/98	NM	42.26	--	
	8/19/98	14.15		28.11	
	11/17/98	14.98		27.28	
	2/18/99	13.41		28.85	
	6/24/99	14.35		27.91	
	8/30/99	15.16		27.10	
	11/9/99	15.61		26.65	
	3/22/00	13.17		29.09	
	6/12/00	14.19		28.07	
	11/15/00	16.04		26.22	
	2/26/01	12.99		29.27	
	5/21/01	13.86		28.40	
	9/5/01	14.91		27.35	
	11/7/01	15.62		26.64	
	2/11/02	13.55		44.58	31.03
	6/3/02	13.96			30.62
	8/6/02	15.82			28.76
	11/14/02	15.86	28.72		
	2/20/03	14.70	29.88		
	5/15/03	14.50	30.08		
	7/31/03	15.73	28.85		
	10/28/03	16.14	28.44		
	2/28/04	14.02	30.56		
	4/16/04	14.52	30.06		
	7/16/04	14.88	29.70		
	11/13/04	15.12	29.46		
	2/4/05	14.17	30.41		
	4/13/05	13.16	31.42		
	8/10/05	14.41	30.17		
	11/5/05	14.87	29.71		
	1/30/06	13.65	30.93		
	4/28/06	12.63	31.95		
8/15/06	14.42	30.16			

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-8 (cont.)	10/26/06	15.32	44.58	29.26
	2/2/07	15.52		29.06
	4/30/07	15.15		29.43
	7/18/07	15.80		28.78
	10/30/07	16.23		28.35
	1/28/08	14.81		29.77
	3/14/08	14.67		29.91
	5/13/08	15.30		29.28
	7/16/08	15.82		28.76
	9/5/08	16.35		44.95
	10/8/08	16.70	28.25	
	1/29/09	16.40	28.55	
	4/14/09	15.15	29.80	
	7/1/09	15.92	29.03	
	10/6/09	16.87	28.08	
	2/17/10	14.62	30.33	
	4/13/10	13.87	31.08	
	7/6/10	15.00	29.95	
	10/27/10	16.20	28.75	
	1/25/11	15.15	29.80	
4/5/11	13.02	31.93		
MW-9	2/18/92	18.87	44.94	26.07
	5/14/92	18.55		26.39
	8/27/92	20.80		24.14
	11/19/92	21.90		23.04
	2/3/93	17.25		27.69
	6/23/93	17.61		27.33
	9/22/93	19.18		25.76
	1/24/94	19.17		25.77
	4/7/94	18.23		26.71
	6/7/94	18.40		26.54
	9/28/94	20.01		24.93
	12/14/94	18.88		26.06
	3/15/95	16.24		28.70

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-9 (cont.)	6/13/95	16.75	44.94	28.19
	9/28/95	18.04		26.90
	12/28/95	17.87		27.07
	3/12/96	NM		--
	6/11/96	16.26		28.68
	10/2/96	17.74		27.20
	1/28/97	14.51		30.43
	5/20/97	16.73		28.21
	8/18/97	NM		--
	9/29/97	NM		--
	11/5/97	18.61		26.33
	3/31/98	NM		--
	5/26/98	15.28		29.66
	5/28/98	NM		--
	8/19/98	16.55		28.39
	11/17/98	17.32		27.62
	2/18/99	15.74		29.20
	6/24/99	16.73		28.21
	8/30/99	17.48		27.46
	11/9/99	17.98		26.96
	3/22/00	15.46		29.48
	6/12/00	16.70		28.24
	11/15/00	18.65		26.29
	2/26/01	14.80		30.14
	5/21/01	15.68		29.26
	9/5/01	16.70		28.24
	11/7/01	17.23	27.71	
	2/11/02	17.16	47.26	30.10
	6/3/02	17.66		29.60
	8/6/02	18.26		29.00
	11/14/02	18.33		28.93
2/20/03	16.85	30.41		
5/15/03	16.63	30.63		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-9 (cont.)	7/31/03	17.58	47.26	29.68
	10/28/03	17.93		29.33
	2/28/04	16.22		31.04
	4/16/04	16.82		30.44
	7/16/04	17.33		29.93
	11/13/04	17.42		29.84
	2/4/05	16.68		30.58
	4/13/05	15.78		31.48
	8/10/05	17.11		30.15
	11/5/05	17.59		29.67
	1/30/06	16.06		31.20
	4/28/06	12.50		34.76
	8/15/06	16.87		30.39
	10/26/06	17.87		29.39
	2/2/07	17.88		29.38
	4/30/07	17.48		29.78
	7/18/07	18.15	29.11	
	10/30/07	18.55	28.71	
	1/28/08	16.98	30.28	
	3/14/08	16.89	30.37	
	5/13/08	17.48	29.78	
	7/16/08	17.95	29.31	
	9/5/08	18.61	47.65	29.04
	10/8/08	18.89		28.76
	1/29/09	18.58		29.07
	4/14/09	17.34		30.31
	7/1/09	18.22		29.43
10/6/09	19.30	28.35		
2/17/10	16.89	30.76		
4/13/10	16.20	31.45		
7/6/10	17.20	30.45		
10/27/10	18.40	29.25		
1/25/11	17.00	30.65		
4/5/11	15.50	32.15		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-10	2/18/92	16.63	42.34	25.71
	5/14/92	15.25		27.09
	5/15/92	NM		--
	8/27/92	18.35		23.99
	8/29/92	NM		--
	11/19/92	19.43		22.91
	2/3/93	15.01		27.33
	6/23/93	15.30		27.04
	9/22/93	16.90		25.44
	1/24/94	NM		--
	4/7/94	15.97		26.37
	6/7/94	16.04		26.30
	9/28/94	17.69		24.65
	12/14/94	16.65		25.69
	3/15/95	14.08		28.26
	6/13/95	14.49		27.85
	9/28/95	15.81		26.53
	12/28/95	15.46		26.88
	3/12/96	12.62		29.72
	6/11/96	14.40		27.94
	10/2/96	15.47		26.87
	1/28/97	15.69		26.65
	5/20/97	14.48		27.86
	8/18/97	15.91		26.43
	9/29/97	NM		--
	11/5/97	16.32		26.02
	3/31/98	12.25		30.09
	5/26/98	12.97		29.37
5/28/98	NM	--		
8/19/98	14.27	28.07		
11/17/98	15.08	27.26		
2/18/99	13.61	28.73		
6/24/99	14.50	27.84		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-10 (cont.)	8/30/99	15.26	42.34	27.08
	11/9/99	15.72		26.62
	3/22/00	13.40		28.94
	6/12/00	14.42		27.92
	11/15/00	16.75		25.59
	2/26/01	14.73		27.61
	5/21/01	15.25		27.09
	9/5/01	16.35		25.99
	11/7/01	17.05		25.29
	2/11/02	14.94		44.65
	6/3/02	15.41	29.24	
	8/6/02	15.98	28.67	
	11/14/02	16.10	28.55	
	2/20/03	14.90	29.75	
	5/15/03	14.69	29.96	
	7/31/03	15.63	29.02	
	10/28/03	16.39	28.26	
	2/28/04	14.01	30.64	
	4/16/04	14.69	29.96	
	7/16/04	15.09	29.56	
	11/13/04	15.24	29.41	
	2/4/05	14.43	30.22	
	4/13/05	13.61	31.04	
	8/10/05	14.82	29.83	
	11/5/05	15.20	29.45	
	1/30/06	13.97	30.68	
	4/28/06	13.22	31.43	
	8/15/06	14.63	30.02	
	10/26/06	15.49	29.16	
	2/2/07	15.60	29.05	
	4/30/07	15.30	29.35	
	7/18/07	15.91	28.74	

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-10 (cont.)	10/30/07	16.32	44.65	28.33
	1/28/08	14.93		29.72
	3/14/08	14.74		29.91
	5/13/08	15.31		29.34
	7/16/08	15.75		28.90
	9/5/08	16.40	45.04	28.64
	10/8/08	16.62		28.42
	1/29/09	16.42		28.62
	4/14/09	15.24		29.80
	7/1/09	16.00		29.04
	10/6/09	16.98		28.06
	2/17/10	14.72		30.32
	4/13/10	14.08		30.96
	7/6/10	15.05		29.99
	10/27/10	16.20		28.84
	1/25/11	14.90		30.14
4/5/11	13.40	31.64		
MW-11	2/18/92	17.00	45.00	28.00
	5/14/92	19.02		25.98
	8/27/92	21.13		23.87
	11/19/92	17.91		27.09
	2/3/93	17.91		27.09
	6/23/93	18.14		26.86
	9/22/93	19.63		25.37
	1/24/94	19.79		25.21
	4/7/94	18.78		26.22
	6/7/94	18.88		26.12
	9/28/94	20.45		24.55
	12/14/94	19.45		25.55
	3/15/95	17.32		27.68
	6/13/95	17.43		27.57
	9/28/95	18.67		26.33
12/28/95	18.31	26.69		
3/12/96	15.89	29.11		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-11 (cont.)	6/11/96	16.98	45.00	28.02
	10/2/96	18.20		26.80
	1/28/97	12.53		32.47
	5/20/97	17.36		27.64
	8/18/97	18.84		26.16
	9/29/97	NM		--
	11/5/97	NM		--
	3/31/98	15.39		29.61
	5/26/98	16.25		28.75
	5/28/98	NM		--
	8/19/98	17.30		27.70
	11/17/98	18.05		26.95
	2/18/99	16.87		28.13
	6/24/99	17.50		27.50
	8/30/99	18.19		26.81
	11/9/99	18.64		26.36
	3/22/00	16.52		28.48
	6/12/00	17.44		27.56
	11/15/00	19.07		25.93
	2/26/01	17.80		27.20
	5/21/01	18.23	26.77	
	9/5/01	19.21	25.79	
	11/7/01	19.80	25.20	
	2/11/02	17.40	47.36	29.96
	6/3/02	18.30		29.06
	8/6/02	18.80		28.56
	11/14/02	18.94		28.42
	2/20/03	17.46		29.90
	5/15/03	17.64		29.72
	7/31/03	18.81		28.55
	10/28/03	19.20		28.16
	2/28/04	17.33		30.03
4/16/04	17.67	29.69		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-11 (cont.)	7/16/04	18.01	47.36	29.35
	11/13/04	18.19		29.17
	2/4/05	17.47		29.89
	4/13/05	16.81		30.55
	8/10/05	17.74		29.62
	11/5/05	18.14		29.22
	1/30/06	17.11		30.25
	4/28/06	16.49		30.87
	8/15/06	17.61		29.75
	10/26/06	18.32		29.04
	2/2/07	18.50		28.86
	4/30/07	18.17		29.19
	7/18/07	18.71		28.65
	10/30/07	19.11		28.25
	1/28/08	17.87		29.49
	3/14/08	17.76		29.60
	5/13/08	18.23		29.13
	7/16/08	18.67	28.69	
	9/5/08	19.21	47.69	28.48
	10/8/08	19.52		28.17
	1/29/09	19.28		28.41
	4/14/09	18.21		29.48
	7/1/09	18.90		28.79
10/6/09	19.80	27.89		
2/17/10	17.74	29.95		
4/13/10	17.24	30.45		
7/6/10	18.05	29.64		
10/27/10	19.10	28.59		
1/25/11	17.92	29.77		
4/5/11	16.67	31.02		
MW-12	7/18/07	18.00	46.88	28.88
	10/30/07	18.42		28.46
	1/28/08	16.96		29.92
	3/14/08	16.83		30.05

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
MW-12 (cont.)	5/13/08	17.35	46.88	29.53
	7/16/08	17.70		29.18
	9/5/08	18.51	47.27	28.76
	10/8/08	18.75		28.52
	1/29/09	18.49		28.78
	4/14/09	17.34		29.93
	7/1/09	18.13		29.14
	10/6/09	19.03		28.24
	2/17/10	16.90		30.37
	4/13/10	16.28		30.99
	7/6/10	17.19		30.08
	10/27/10	18.30		28.97
	1/25/11	17.05		30.22
	4/5/11	15.60		31.67
RW-1	5/14/92	16.88	43.17	26.29
	5/15/92	NM		--
	8/27/92	19.05		24.12
	11/19/92	21.11		22.06
	2/3/93	15.48		27.69
	6/23/93	28.25		14.92
	9/22/93	17.83		25.34
	1/24/94	24.00		19.17
	4/7/94	16.05		27.12
	6/7/94	16.00		27.17
	9/28/94	18.35		24.82
	12/14/94	19.50		23.67
	3/15/95	17.00		26.17
	4/10/95	NM		--
	6/13/95	14.95		28.22
	9/28/95	27.63		15.54
	12/28/95	14.54		28.63
3/12/96	11.02	32.15		
6/11/96	14.52	28.65		
10/2/96	15.53	27.64		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
RW-1 (cont.)	1/28/97	12.59	43.17	30.58
	5/20/97	14.85		28.32
	8/18/97	16.19		26.98
	9/29/97	NM		--
	11/5/97	16.95		26.22
	3/31/98	11.85		31.32
	5/26/98	13.13		30.04
	5/28/98	NM		--
	8/19/98	14.70		28.47
	11/17/98	15.54		27.63
	2/18/99	13.75		29.42
	6/24/99	14.96		28.21
	8/30/99	15.75		27.42
	11/9/99	17.45		25.72
	3/22/00	13.51		29.66
	6/12/00	13.65		29.52
	11/15/00	29.45		13.72
	2/26/01	28.40		14.77
	5/21/01	15.36		27.81
	9/5/01	26.90	16.27	
	11/7/01	28.41	14.76	
	2/11/02	27.61	45.47	17.86
	6/3/02	26.90		18.57
	8/6/02	25.56		19.91
	11/14/02	24.83		20.64
	2/20/03	23.56		21.91
	5/15/03	22.80		22.67
	7/31/03	21.71		23.76
	10/28/03	22.07		23.40
	2/28/04	19.32		26.15
	4/16/04	23.95		21.52
	7/16/04	30.04		15.43
11/13/04	15.63	29.84		

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
RW-1 (cont.)	2/4/05	18.57	45.47	26.90
	4/13/05	24.21		21.26
	8/10/05	33.59		11.88
	11/5/05	25.63		19.84
	1/30/06	24.39		21.08
	4/28/06	16.32		29.15
	8/15/06	34.04		11.43
	10/26/06	25.48		19.99
	2/2/07	16.62		28.85
	4/30/07	NM		--
	7/18/07	30.72		14.75
	10/30/07	31.15		14.32
	1/28/08	26.79		18.68
	3/14/08	15.14	30.33	
	5/13/08	15.79	29.68	
	7/16/08	16.32	29.15	
	9/5/08	16.93	45.86	28.93
	10/8/08	17.21		28.65
	1/29/09	16.87		28.99
	4/14/09	15.63		30.23
	7/1/09	16.53		29.33
	10/6/09	17.48		28.38
	2/17/10	15.08		30.78
4/13/10	14.30	31.56		
7/6/10	15.48	30.38		
10/27/10	16.70	29.16		
1/25/11	15.25	30.61		
4/5/11	13.43	32.43		
RW-2	11/13/04	16.17	45.00	28.83
	2/4/05	15.44		29.56
	4/13/05	14.54		30.46
	8/10/05	15.93		29.07
	11/5/05	16.36		28.64
	1/30/06	14.83		30.17

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)	
RW-2 (cont.)	4/28/06	13.93	45.00	31.07	
	8/15/06	15.67		29.33	
	10/26/06	23.50		21.50	
	2/2/07	14.27		30.73	
	4/30/07	18.35		26.65	
	7/18/07	17.95		27.05	
	10/30/07	17.63		27.37	
	1/28/08	15.91		29.09	
	3/14/08	15.69		29.31	
	5/13/08	16.32		28.68	
	7/16/08	16.81		28.19	
	9/5/08	17.39		46.40	29.01
	10/8/08	17.63			28.77
	1/29/09	17.35	29.05		
	4/14/09	16.20	30.20		
	7/1/09	17.00	29.40		
	10/6/09	18.00	28.40		
	2/17/10	15.64	30.76		
	4/13/10	14.90	31.50		
	7/6/10	15.95	30.45		
10/27/10	17.17	29.23			
1/25/11	15.74	30.66			
4/5/11	14.13	32.27			
OS-1	9/5/08	18.14	47.19	29.05	
	10/8/08	18.41		28.78	
	1/29/09	18.10		29.09	
	4/14/09	16.86		30.33	
	7/1/09	17.78		29.41	
	10/6/09	18.78		28.41	
	10/6/09	18.78		28.41	
	2/17/10	16.37		30.82	
1/25/11	16.53	30.66			
OS-2	9/5/08	17.75	46.79	29.04	
	10/8/08	NM		--	

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
OS-2 (cont.)	1/29/09	17.74	46.79	29.05
	4/14/09	16.50		30.29
	7/1/09	17.38		29.41
	10/6/09	18.42		28.37
	10/6/09	18.42		28.37
	2/17/10	16.00		30.79
	1/25/11	16.15		30.64
OS-3	9/5/08	16.68	45.68	29.00
	10/8/08	16.95		28.73
	1/29/09	16.60		29.08
	4/14/09	15.33		30.35
	7/1/09	16.26		29.42
	10/6/09	17.30		28.38
	10/6/09	17.30		28.38
	2/17/10	14.80		30.88
	1/25/11	14.94		30.74
OS-4	9/5/08	17.00	46.02	29.02
	10/8/08	17.26		28.76
	1/29/09	16.97		29.05
	4/14/09	15.70		30.32
	7/1/09	16.61		29.41
	10/6/09	17.63		28.39
	10/6/09	17.63		28.39
	2/17/10	15.16		30.86
	1/25/11	15.34		30.68
PT-1	9/5/08	17.50	46.48	28.98
	10/8/08	17.77		28.71
	1/29/09	17.47		29.01
	4/14/09	16.21		30.27
	7/1/09	17.10		29.38
	10/6/09	18.10		28.38
	10/6/09	18.10		28.38
	2/17/10	15.66		30.82

TABLE C-1

HISTORICAL WELL AND GROUNDWATER ELEVATIONS
TESORO - SAN LORENZO, 67107

Well No.	Date of Measurement	Depth to Water (feet below casing)	PVC Casing Elevation ^(a) (feet MSL)	Water Table Elevation ^(b) (feet MSL)
PT-1	7/6/10	16.10	46.48	30.38
(cont.)	10/27/10	17.27		29.21
	1/25/11	15.85		30.63
	4/5/11	14.20		32.28

(a) Elevation of PVC well casing relative to mean sea level (MSL), provided by RDM Environmental, Inc. (RDM), Fourth Quarter 2007 Groundwater Monitoring Report.

Wells were surveyed by Cross Land Surveying, Inc., per AB 2886 requirements on 26 September 2008.

(b) Difference between "PVC Casing Elevation" and "Depth to Water."

(c) NM = Well not measured.

(d) "--" Not calculated.

(e) Field logs noted well was plugged at 14 feet below top of casing on 20 May 1997.

ATTACHMENT D
HISTORICAL GROUNDWATER ANALYTICAL RESULTS

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-1	5/15/92	41,000	2,000	47	1,200	400	-- ^(e)	--	--	--	--
	8/28/92	110,000	3,800	54	850	970	--	--	--	--	--
	11/19/92	3,600	200	ND<0.5 ^(f)	90	140	--	--	--	--	--
	2/3/93	3,000	180	22	79	130	--	--	--	--	--
	6/23/93	12,000	2,400	74	650	510	--	--	--	--	--
	9/22/93	23,000	3,000	290	1,100	1,200	--	--	--	--	--
	1/24/94	18,000	2,400	280	1,100	1,700	--	--	--	--	--
	4/7/94	20,000	4,200	820	1,600	2,100	--	--	--	--	--
	6/7/94	26,000	1,800	510	1,100	1,600	--	--	--	--	--
	9/28/94	18,000	1,700	210	970	870	--	--	--	--	--
	12/14/94	31,000	4,400	2,400	2,300	4,300	--	--	--	--	--
	3/15/95	17,000	830	310	840	1,200	--	--	--	--	--
	6/13/95	22,000	1,300	99	1,500	1,100	--	--	--	--	--
	9/28/95	8,800	580	ND<25	780	410	--	--	--	--	--
	12/28/95	4,800	4.9	ND<1.3	ND<1.3	290	74	--	--	--	--
	1/30/96	1,500	17	7.1	20	45	63	--	--	--	--
	3/12/96	110	ND<0.5	ND<0.5	ND<0.5	ND<0.5	44	--	--	--	--
	9/11/96	600	48	0.90	37	26	75	--	--	--	--
	10/2/96	210	16	ND<0.5	6.0	0.92	11	--	--	--	--
	1/28/97	150	ND<0.5	ND<0.5	ND<0.5	ND<0.5	160	--	--	--	--
	5/20/97	680	ND<2.5	ND<2.5	ND<2.5	ND<2.5	640	--	--	--	--
	8/18/97	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	540	--	--	--	--
	11/5/97	ND<250	2.8	ND<2.5	ND<2.5	ND<2.5	390	--	--	--	--
	3/31/98	3,300	260	13	110	150	7,900	--	--	--	--
	5/28/98	7,800	120	ND<10	39	55	9,300	--	--	--	--
	8/19/98	ND<250	12	ND<2.5	6.0	3.8	2,200	--	--	--	--
	11/17/98	860	8.3	ND<2.5	9.2	7.6	4,200	--	--	--	--
2/18/99	310	2.7	ND<2.5	ND<2.5	3.9	4,200	--	--	--	--	
6/24/99	860	10	ND<2.5	12	6.5	3,400	--	--	--	--	
8/30/99	140	2.0	ND<0.5	3.9	2.0	2,800	--	--	--	--	
11/9/99	170	ND<0.5	ND<0.5	3.1	2.0	1,500	--	--	--	--	
3/22/00	ND<200	2.8	ND<2	3.6	ND<2	1,200	--	--	--	--	
6/12/00	190	1.3	ND<1	ND<1	ND<1	640	--	--	--	--	
11/15/00	240	ND<1	ND<1	ND<1	ND<1	960	--	--	--	--	
2/26/01	ND<100	1.2	ND<1	ND<1	ND<1	2,800	--	--	--	--	
5/21/01	ND<200	ND<2	ND<2	ND<2	ND<2	540	--	--	--	--	
9/5/01	ND<200	7.0	ND<2	ND<2	ND<2	550	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-1 (cont.)	11/7/01	290	ND<2	ND<2	ND<2	ND<2	750	--	--	--	--
	2/11/02	270	ND<1	ND<1	ND<1	ND<1	450	--	--	--	--
	6/3/02	310	ND<2	ND<2	ND<2	ND<2	610	--	--	--	--
	8/6/02	170	ND<0.5	ND<0.5	ND<0.5	ND<0.5	540	--	--	--	--
	11/14/02	490	ND<2	ND<2	ND<2	ND<2	900	--	--	--	--
	2/20/03	210	ND<1	ND<1	ND<1	ND<1	320	--	--	--	--
	5/15/03	400	ND<1.5	ND<1.5	ND<1.5	ND<1.5	670	ND<1.5	ND<1.5	ND<1.5	ND<15
	7/31/03	380	ND<1.5	ND<1.5	ND<1.5	ND<1.5	620	ND<1.5	ND<1.5	ND<1.5	ND<15
	10/28/03	230	ND<1	ND<1	ND<1	ND<1	470	ND<1	ND<1	ND<1	ND<10
	2/28/04	300	ND<0.5	ND<0.5	ND<0.5	ND<0.5	400	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/16/04	ND<200	ND<1.5	ND<1.5	ND<1.5	ND<1.5	510	ND<1.5	ND<1.5	ND<1.5	ND<15
	7/16/04	280	ND<1.5	ND<1.5	ND<1.5	ND<1.5	660	ND<1.5	ND<1.5	ND<1.5	ND<15
	11/13/04	ND<100	ND<1	ND<1	ND<1	ND<1	530	ND<1	ND<1	ND<1	19
	2/4/05	140	ND<1	ND<1	ND<1	ND<1	610	ND<1	ND<1	ND<1	18
	4/13/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	19	ND<0.5	ND<0.5	ND<0.5	12
	8/10/05	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	170	ND<0.5	ND<0.5	ND<0.5	17
	11/5/05	220	ND<0.5	ND<0.5	ND<0.5	ND<0.5	95	ND<0.5	ND<0.5	ND<0.5	24
	1/30/06	92	ND<0.5	ND<0.5	ND<0.5	ND<0.5	120	ND<0.5	ND<0.5	ND<0.5	20
	4/28/06	57	ND<0.5	ND<0.5	ND<0.5	ND<0.5	18	ND<0.5	ND<0.5	ND<0.5	13
	8/15/06	60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	15	ND<0.5	ND<0.5	ND<0.5	10
10/26/06	110	ND<0.5	ND<0.5	ND<0.5	ND<0.5	34	ND<0.5	ND<0.5	ND<0.5	6.2	
2/2/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17	ND<0.5	ND<0.5	ND<0.5	6.7	
4/30/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/18/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.94	ND<0.5	ND<0.5	68	5.5	
10/30/07	77 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.0	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/28/08	56 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.6	ND<0.5	ND<0.5	ND<0.5	ND<5	
5/13/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.2	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/16/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.3	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/8/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.7	ND<0.5	ND<0.5	ND<0.5	ND<5	
DUP	1/29/09	98	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/29/09	250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	19	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/14/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.2	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/1/09	110	ND<0.5	ND<0.5	ND<0.5	ND<0.5	24	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/7/09	170	ND<0.5	ND<0.5	ND<0.5	ND<0.5	28	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/17/10	60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	21	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/13/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.9	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/6/10	160	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.1	ND<0.5	ND<0.5	ND<0.5	ND<5

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-1 (cont.)	10/27/10	200	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	140	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.8	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/5/11	63	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.59	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-2	2/18/92	1,600	ND<0.5	ND<0.5	1.9	ND<0.5	--	--	--	--	--
	5/14/92	740	1.2	1.0	1.3	ND<0.5	--	--	--	--	--
	8/27/92	1,400	6.5	1.1	0.60	ND<0.5	--	--	--	--	--
	11/19/92	360	ND<0.5	ND<0.5	2.7	ND<0.5	--	--	--	--	--
	2/3/93	590	1.2	1.6	4.5	6.4	--	--	--	--	--
	6/23/93	160	ND<0.5	ND<0.5	0.52	0.50	--	--	--	--	--
	9/22/93	290	ND<0.5	0.59	1.2	0.59	--	--	--	--	--
	1/24/94	330	ND<0.5	ND<0.5	0.68	ND<0.5	--	--	--	--	--
	4/7/94	490	ND<0.5	ND<0.5	ND<0.5	4.4	--	--	--	--	--
	6/7/94	550	ND<0.5	ND<0.5	1.5	ND<0.5	--	--	--	--	--
	9/28/94	190	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/14/94	1,400	7.2	0.84	ND<0.5	ND<0.5	--	--	--	--	--
	3/15/95	730	39	ND<0.5	0.53	ND<0.5	--	--	--	--	--
	6/13/95	750 ^(g)	8.3	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/95	670 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/28/95	3,100	9.5	ND<5	ND<5	5.2	4,600	--	--	--	--
	3/12/96	710	ND<1.3	ND<1.3	ND<1.3	ND<1.3	3,200	--	--	--	--
	6/13/96	1,900 ^(g)	1.6	1.6	ND<1.3	ND<1.3	5,100	--	--	--	--
	10/2/96	2,800	ND<2.5	ND<2.5	ND<2.5	ND<2.5	7,900	--	--	--	--
	1/28/97	130	ND<0.5	ND<0.5	ND<0.5	ND<0.5	210	--	--	--	--
	5/20/97	1,400	120	16	ND<2.5	4.0	390	--	--	--	--
	8/18/97	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	2,000	--	--	--	--
	11/5/97	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<2.5	2,900	--	--	--	--
	3/31/98	ND<10,000	ND<0.5	ND<0.5	ND<0.5	ND<0.5	85,000	--	--	--	--
	5/28/98	ND<50,000	ND<500	ND<500	ND<500	ND<500	97,000	--	--	--	--
	8/19/98	210	ND<0.5	ND<0.5	ND<0.5	ND<0.5	22,000	--	--	--	--
11/17/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17,000	--	--	--	--	
2/18/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13,000	--	--	--	--	
6/24/99	180	ND<15	ND<15	ND<15	ND<15	39,000	--	--	--	--	
8/30/99	ND<2,500	ND<25	ND<25	ND<25	ND<25	18,000	--	--	--	--	
11/9/99	ND<500	ND<5	ND<5	ND<5	ND<5	14,000	--	--	--	--	
3/22/00	ND<500	ND<5	ND<5	ND<5	ND<5	54,000	--	--	--	--	
6/12/00	ND<2,000	ND<20	ND<20	ND<20	ND<20	53,000	--	--	--	--	
11/15/00	ND<5,000	ND<50	ND<50	ND<50	ND<50	35,000	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-2 (cont.)	2/26/01	ND<2,000	ND<20	ND<20	ND<20	ND<20	2,800	--	--	--	--
	5/21/01	ND<5,000	ND<25	ND<25	ND<25	ND<25	20,000	--	--	--	--
	9/5/01	ND<2,000	ND<20	ND<20	ND<20	ND<20	12,000	--	--	--	--
	11/7/01	ND<2,000	ND<20	ND<20	ND<20	ND<20	7,600	--	--	--	--
	2/11/02	ND<500	ND<5	ND<5	ND<5	ND<5	1500	--	--	--	--
	6/3/02	ND<500	ND<5	ND<5	ND<5	ND<5	2,200	--	--	--	--
	8/6/02	ND<500	ND<5	ND<5	ND<5	ND<5	3,300	--	--	--	--
	11/14/02	ND<1,000	ND<10	ND<10	ND<10	ND<10	3,200	--	--	--	--
	2/20/03	ND<50	ND<2	ND<2	ND<2	ND<2	160	--	--	--	--
	5/15/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	270	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/31/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	300	ND<2	ND<0.5	ND<0.5	ND<5
	10/28/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1,600	ND<1	ND<0.5	1.8	20
	2/28/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	340	ND<1.5	ND<0.5	ND<0.5	ND<5
	4/16/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	130	ND<1.5	ND<0.5	ND<0.5	35
	7/16/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	68	ND<1	ND<0.5	ND<0.5	ND<5
	11/13/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	35	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/4/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	22	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/13/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	ND<0.5	ND<0.5	ND<0.5	ND<5
	8/10/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/5/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.2	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/28/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.3	ND<0.5	ND<0.5	ND<0.5	ND<5
	8/15/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/26/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.9	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/2/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/30/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.85	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/18/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.2	ND<0.5	ND<0.5	ND<0.5	ND<5
10/30/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.7	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/28/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.89	ND<0.5	ND<0.5	ND<0.5	ND<5	
5/13/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.86	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/16/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.3	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/8/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.8	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/29/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.6	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/14/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.77	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/1/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.6	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/7/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.3	ND<0.5	ND<0.5	ND<0.5	ND<5	
2/17/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.58	ND<0.5	ND<0.5	ND<0.5	ND<5	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-2 (cont.)	4/13/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/6/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/5/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-3	5/15/92	160,000	6,300	5,900	1,700	6,100	--	--	--	--	--
	8/28/92	1,300,000	2,500	40,000	6,700	44,000	--	--	--	--	--
	2/3/93	82,000	7,200	11,000	2,900	13,000	--	--	--	--	--
	6/23/93	61,000	3,200	5,300	2,500	9,100	--	--	--	--	--
	9/22/93	94,000	12,000	14,000	3,900	18,000	--	--	--	--	--
	1/24/94	110,000	14,000	17,000	4,200	14,000	--	--	--	--	--
	4/7/94	28,000	6,500	1,800	1,700	4,100	--	--	--	--	--
	6/7/94	27,000	6,400	2,300	1,500	3,500	--	--	--	--	--
	9/28/94	40,000	7,400	4,300	1,500	4,600	--	--	--	--	--
	12/14/94	140,000	17,000	21,000	3,900	22,000	--	--	--	--	--
	3/15/95	58,000	4,900	1,900	1,800	7,100	--	--	--	--	--
	6/13/95	44,000	7,200	2,900	1,200	4,600	--	--	--	--	--
	9/28/95	30,000	5,600	2,100	1,900	6,900	--	--	--	--	--
	12/28/95	16,000	32	5.8	18	4,700	360	--	--	--	--
	1/30/96	8,700	850	800	190	1,700	430	--	--	--	--
	3/12/96	2,400	48	64	5.3	630	97	--	--	--	--
	7/10/97	300	ND<0.5	ND<0.5	ND<0.5	4.8	40	--	--	--	--
	8/18/97	3,600	480	8.4	100	230	170	--	--	--	--
	9/29/97	3,500	740	8.6	160	240	210	--	--	--	--
	11/5/97	4,100	870	15	180	210	240	--	--	--	--
	3/31/98	12,000	1,800	600	410	1,400	510	--	--	--	--
	5/28/98	6,500	1,500	400	280	870	480	--	--	--	--
	8/19/98	1,400	130	11	24	60	140	--	--	--	--
	11/17/98	510	48	3.5	9.9	14	120	--	--	--	--
	2/18/99	690	67	28	24	81	88	--	--	--	--
	6/24/99	540	27	21	8.6	32	61	--	--	--	--
8/30/99	250	12	12	3.2	13	50	--	--	--	--	
11/9/99	230	9.8	5.3	3.4	10	48	--	--	--	--	
3/22/00	1,500	180	47	46	100	80	--	--	--	--	
6/12/00	920	100	6.2	20	25	76	--	--	--	--	
11/15/00	1,100	280	5.0	21	20	140	--	--	--	--	
2/26/01	140	14	4.3	3.1	11	230	--	--	--	190	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)	
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12	
MW-3 (cont.)	5/21/01	510	36	0.72	1.0	2.2	280	--	--	--	110	
	9/5/01	390	59	0.53	0.75	0.57	620	--	--	--	120	
	11/7/01	830	170	2.3	4.9	4.8	900	--	--	--	--	
	2/11/02	370	17	ND<2.5	4.7	7.9	1,200	--	--	--	--	
	6/3/02	460	120	ND<2.5	5.6	8.4	1,400	--	--	--	140	
	8/6/02	800	110	ND<5	ND<5	ND<5	2,200	--	--	--	170	
	11/14/02	1,400	89	ND<10	ND<10	ND<10	2,800	--	--	--	210	
	2/20/03	ND<500	14	ND<5	ND<5	ND<5	2,300	--	--	--	97	
	5/15/03	ND<500	43	ND<5	ND<5	ND<5	2,000	ND<5	ND<5	ND<5	87	
	7/31/03	1,500	280	ND<5	6.6	7.4	1,600	ND<5	ND<5	ND<5	130	
	10/28/03	2,200	140	1.6	6.5	4.0	1,100	ND<0.5	ND<0.5	0.75	74	
	2/28/04	1,200	99	31	12	52	1,500	ND<0.5	ND<0.5	ND<0.5	82	
	4/16/04	1,200	95	19	12	48	1,100	ND<0.5	ND<0.5	ND<0.5	340	
7/16/04	980	94	27	9.4	38	810	ND<0.5	ND<0.5	ND<0.5	580		
MW-3R	11/13/04	9,000	580	52	440	1,600	450	ND<0.5	ND<0.5	ND<0.5	440	
	2/4/05	5,400	350	29	260	1,100	270	ND<0.5	ND<0.5	ND<0.5	390	
	4/13/05	20,000	1,300	84	1,200	3,200	290	ND<0.5	ND<0.5	ND<0.5	150	
	8/10/05	7,100	400	23	340	1,200	110	ND<0.5	ND<0.5	ND<0.5	160	
	11/5/05	4,100	230	10	250	600	81	ND<0.5	ND<0.5	ND<0.5	200	
	1/30/06	6,100	460	20	470	1,000	85	ND<0.5	ND<0.5	ND<0.5	190	
	4/28/06	8,200	510	15	490	940	81	ND<0.5	ND<0.5	ND<0.5	90	
	8/15/06	5,600	470	11	500	680	80	ND<0.5	ND<0.5	ND<0.5	92	
	10/26/06	1,800	82	4.2	38	220	53	ND<0.5	ND<0.5	ND<0.5	45	
	2/2/07	1,500	94	4.3	7.0	110	42	ND<0.5	ND<0.5	ND<0.5	26	
	4/30/07	3,700	240	17	280	300	38	ND<0.5	ND<0.5	ND<0.5	22	
	7/18/07	690	85	1.5	3.6	20	29	ND<0.5	ND<0.5	ND<0.5	17	
	10/30/07	410	46	0.90	4.7	12	19	ND<0.5	ND<0.5	ND<0.5	14	
	1/28/08	4,500	350	10	250	220	48	ND<0.5	ND<0.5	ND<0.5	22	
	5/13/08	1,300	68	4.4	74	38	18	ND<0.5	ND<0.5	ND<0.5	15	
	7/16/08	1,400	71	9.8	38	20	35	ND<0.5	ND<0.5	ND<0.5	33	
	10/8/08	980	66	2.5	6.7	ND<0.5	32	ND<0.5	ND<0.5	ND<0.5	22	
	1/29/09	58	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	ND<0.5	ND<0.5	ND<0.5	8.0	
	DUP	1/30/09	860	82	1.4	16	4.3	19	ND<0.5	ND<0.5	ND<0.5	21
		4/15/09	120	1.6	ND<0.5	ND<0.5	ND<0.5	12	ND<0.5	ND<0.5	ND<0.5	16
7/1/09		690	30	1.2	4.4	2.0	19	ND<0.5	ND<0.5	ND<0.5	20	
10/7/09		480	28	0.73	2.3	1.5	20	ND<0.5	ND<0.5	ND<0.5	16	
2/18/10		400	38	0.76	25	6.5	10	ND<0.5	ND<0.5	ND<0.5	18	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-3R	4/14/10	840	81	1.4	62	22	16	ND<0.5	ND<0.5	ND<0.5	16
	7/7/10	570	59	0.94	21	5.6	13	ND<0.5	ND<0.5	ND<0.5	16
	10/27/10	420	24	0.56	2.1	0.83	12	ND<0.5	ND<0.5	ND<0.5	14
	1/25/11	1,100	64	1.1	40	9.4	9.8	ND<0.5	ND<0.5	ND<0.5	14
	4/6/11	980	71	1.2	43	14	14	ND<0.5	ND<0.5	ND<0.5	11
MW-4	2/18/92	5,100	ND<0.5	ND<0.5	12	21	--	--	--	--	--
	5/14/92	4,600	ND<0.5	5.6	1.8	2.2	--	--	--	--	--
	8/28/92	1,700	6.6	1.3	1.6	3.1	--	--	--	--	--
	11/19/92	400	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	2/3/93	1,100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/23/93	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/22/93	110	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	1/24/94	260	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	4/7/94	430	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/7/94	150	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/94	75	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/14/94	160	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	3/15/95	500	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/13/95	210 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/95	140 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/28/95	510 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	3/12/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	6/11/96	50 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	10/2/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	1/28/97	270 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	5/20/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	8/18/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/5/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
3/31/98	110	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--	
5/28/98	94	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--	
8/19/98	120 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	46	--	--	--	--	
11/17/98	ND<50	1.3	ND<0.5	ND<0.5	ND<0.5	780	--	--	--	--	
2/18/99	130	8.2	ND<0.5	ND<0.5	ND<0.5	240	--	--	--	--	
6/24/99	ND<50	ND<1	ND<0.5	ND<0.5	ND<0.5	2,100	--	--	--	--	
11/9/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2,500	--	--	--	--	
3/22/00	69	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12,000	--	--	--	--	
6/12/00	ND<2,000	ND<20	ND<20	ND<20	ND<20	17,000	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-4 (cont.)	11/15/00	ND<100	ND<1	ND<1	ND<1	ND<1	17,000	--	--	--	--
	5/21/01	ND<5,000	ND<25	ND<25	ND<25	ND<25	13,000	--	--	--	--
	11/7/01	ND<1,000	ND<10	ND<10	ND<10	ND<10	3,800	--	--	--	--
	6/3/02	ND<200	ND<2	ND<2	ND<2	ND<2	1,100	--	--	--	--
	11/14/02	ND<200	ND<2	ND<2	ND<2	ND<2	700	--	--	--	--
	5/15/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	73	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/28/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	65	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/16/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.0	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/13/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	50	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/28/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.89	ND<0.5	ND<0.5	ND<0.5	ND<5
	8/15/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.8	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/26/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/2/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.0	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/30/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/18/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/30/07	90	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/28/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/13/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/16/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.51	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/8/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/29/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/14/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
7/1/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/7/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.56	ND<0.5	ND<0.5	ND<0.5	ND<5	
2/17/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/13/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/6/10	ND<50	ND<0.5	ND<0.5	0.62	0.83	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.65	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/5/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
MW-5	2/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	5/14/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	8/27/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	11/19/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	2/3/93	55	3.0	2.7	8.0	9.9	--	--	--	--	--
	6/23/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-5 (cont.)	9/22/93	ND<50	0.66	1.1	ND<0.5	0.60	--	--	--	--	--
	1/24/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	4/7/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/7/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/14/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	3/15/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/13/95	ND<50	ND<0.5	0.52	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/28/95	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	3/12/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.0	--	--	--	--
	6/11/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	10/2/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	1/28/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	5/20/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	8/18/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/5/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	3/31/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	5/28/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	8/19/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.1	--	--	--	--
	11/17/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.3	--	--	--	--
	2/18/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	3/22/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
10/8/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
1/29/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
10/7/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
4/13/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
MW-6	2/18/92	370	4.8	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	5/14/92	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	8/27/92	ND<50	1.2	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	11/19/92	66	1.3	ND<0.5	1.0	1.1	--	--	--	--	--
	2/3/93	100	1.9	2.6	23	12	--	--	--	--	--
	6/23/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/22/93	81	2.2	3.8	0.53	2.7	--	--	--	--	--
	1/24/94	98	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	4/7/94	150	0.71	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-6 (cont.)	6/7/94	180	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/94	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/14/94	140	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	3/15/95	110	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/13/95	150 ^(g)	ND<0.5	0.87	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/95	ND<50	0.78	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/28/95	410	ND<0.5	ND<0.5	ND<0.5	ND<0.5	70	--	--	--	--
	1/30/96	81	1.0	ND<0.5	ND<0.5	ND<0.5	46	--	--	--	--
	3/12/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.0	--	--	--	--
	6/11/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	10/2/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	1/28/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	5/20/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	8/18/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/5/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.8	--	--	--	--
	3/31/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	5/28/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	8/19/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/17/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	2/18/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	3/22/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	10/8/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.1	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/29/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.5	ND<0.5	ND<0.5	ND<0.5	ND<5
4/15/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/1/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.71	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/7/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.0	ND<0.5	ND<0.5	ND<0.5	ND<5	
2/18/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.71	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/14/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/7/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.64	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/6/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
MW-7	2/18/92	670	16	ND<0.5	10	16	--	--	--	--	--
	5/14/92	1,500	44	ND<0.5	38	88	--	--	--	--	--
	8/27/92	23,000	400	5.8	290	1,400	--	--	--	--	--
	11/19/92	330	29	ND<0.5	10	53	--	--	--	--	--
	2/3/93	2,000	200	ND<0.5	110	480	--	--	--	--	--

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-7 (cont.)	6/23/93	280	20	ND<0.5	16	16	--	--	--	--	--
	9/22/93	860	71	2.2	33	210	--	--	--	--	--
	1/24/94	900	61	ND<1.3	10	160	--	--	--	--	--
	4/7/94	630	53	ND<0.5	7.1	49	--	--	--	--	--
	6/7/94	730	55	ND<0.5	14	24	--	--	--	--	--
	9/28/94	300	21	ND<0.5	2.3	3.1	--	--	--	--	--
	12/14/94	430	19	ND<0.5	3.3	32	--	--	--	--	--
	3/15/95	70	0.88	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/13/95	190	7.3	0.79	7.6	8.9	--	--	--	--	--
	9/28/95	60	1.5	ND<0.5	1.2	0.84	--	--	--	--	--
	12/28/95	60	ND<0.5	ND<0.5	0.91	0.69	10	--	--	--	--
	3/12/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	--	--	--	--
	6/11/96	79	ND<0.5	ND<0.5	ND<0.5	ND<0.5	16	--	--	--	--
	10/2/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	26	--	--	--	--
	1/28/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	--	--	--	--
	5/20/97	78	ND<0.5	0.85	ND<0.5	ND<0.5	40	--	--	--	--
	8/18/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	18	--	--	--	--
	11/5/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.0	--	--	--	--
	3/31/98	ND<50	ND<0.5	ND<0.5	ND<0.5	1.3	6.0	--	--	--	--
	5/28/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10	--	--	--	--
	8/19/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	27	--	--	--	--
	11/17/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	30	--	--	--	--
	2/18/99	51	ND<0.5	ND<0.5	ND<0.5	ND<0.5	22	--	--	--	--
	11/9/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	16	--	--	--	--
	3/22/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	18	--	--	--	--
	11/15/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17	--	--	--	--
	11/7/01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.4	--	--	--	--
	11/14/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.64	ND<0.5	ND<0.5	ND<0.5	ND<5
10/28/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
11/13/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/30/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
2/2/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/30/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/30/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
5/13/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/16/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/8/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-7 (cont.)	1/29/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/14/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/7/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/13/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/5/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-8	2/18/92	1,200	ND<0.5	ND<0.5	9.5	ND<0.5	--	--	--	--	--
	5/14/92	130	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	8/27/92	140	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	11/19/92	320	ND<0.5	ND<0.5	2.0	ND<0.5	--	--	--	--	--
	2/3/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/23/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/22/93	ND<50	ND<0.5	ND<0.5	0.67	ND<0.5	--	--	--	--	--
	1/24/94	290	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	4/7/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/7/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/14/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	3/15/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/13/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/28/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	3/12/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	6/11/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	10/2/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	1/28/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	5/20/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	8/18/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/5/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	3/31/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	5/28/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
8/19/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--	
11/17/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--	
2/18/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--	
3/22/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--	
4/30/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/18/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
5/13/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-8 (cont.)	7/16/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/8/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/29/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/14/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/7/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/13/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-9	2/18/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	5/14/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	8/27/92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	11/19/92	ND<50	ND<0.5	ND<0.5	ND<0.5	1.3	--	--	--	--	--
	2/3/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/23/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/22/93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	1/24/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	4/7/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/7/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/14/94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	3/15/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/13/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/28/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	6/11/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	10/2/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	1/28/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	5/20/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/5/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
	8/19/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	11/17/98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	2/18/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	3/22/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	6/3/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--
8/6/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/30/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/18/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
5/13/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-9 (cont.)	7/16/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/8/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/29/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/14/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/1/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/7/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/18/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/14/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
MW-10	2/18/92	18,000	110	57	440	53	--	--	--	--	--
	5/15/92	8,500	24	9.8	97	ND<0.5	--	--	--	--	--
	8/29/92	9,600	20	2.8	40	3.5	--	--	--	--	--
	11/19/92	5,700	36	21	330	31	--	--	--	--	--
	2/3/93	2,200	15	4.6	36	9.6	--	--	--	--	--
	6/23/93	8,100	21	24	540	45	--	--	--	--	--
	9/22/93	6,200	22	17	350	16	--	--	--	--	--
	4/7/94	4,000	6.4	2.9	150	4.7	--	--	--	--	--
	6/7/94	6,700	5.6	ND<2.5	150	5.7	--	--	--	--	--
	9/28/94	5,700	2.2	2.6	110	44	--	--	--	--	--
	12/14/94	3,500	ND<1.3	ND<1.3	77	27	--	--	--	--	--
	3/15/95	7,200	ND<5	6.7	150	23	--	--	--	--	--
	6/13/95	8,400	9.0	48	610	130	--	--	--	--	--
	9/28/95	6,300	22	17	360	24	--	--	--	--	--
	12/28/95	5,000	4.4	5.6	340	11	37	--	--	--	--
	3/12/96	4,500	1.4	5.9	41	73	120	--	--	--	--
	6/11/96	7,500	ND<5	25	350	81	ND<25	--	--	--	--
	10/2/96	2,600	18	ND<2.5	ND<2.5	ND<2.5	ND<25	--	--	--	--
	1/28/97	2,800	5.9	ND<2.5	29	19	ND<25	--	--	--	--
	5/20/97	6,000	ND<20	34	290	74	ND<100	--	--	--	--
8/18/97	5,900	ND<20	7.7	94	15	ND<50	--	--	--	--	
11/5/97	5,400	1.1	0.86	47	1.6	2.3	--	--	--	--	
3/31/98	20,000	56	180	1,400	3,700	250	--	--	--	--	
5/28/98	16,000	76	200	1,600	3,900	190	--	--	--	--	
8/19/98	14,000	95	160	1,300	1,700	ND<100	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-10 (cont.)	11/17/98	7,500	82	64	590	150	290	--	--	--	--
	2/18/99	4,700	41	16	270	79	ND<100	--	--	--	--
	6/24/99	9,400	27	74	280	160	300	--	--	--	--
	8/30/99	8,500	15	33	160	33	290	--	--	--	--
	11/9/99	7,600	3.9	11	60	14	120	--	--	--	--
	3/22/00	5,800	3.5	33	360	320	160	--	--	--	--
	6/12/00	7,200	4.3	47	370	210	270	--	--	--	--
	11/15/00	4,400	0.54	2.2	3.8	7.3	420	--	--	--	--
	2/26/01	5,000	ND<1	2.5	24	13	860	--	--	--	--
	5/21/01	3,500	ND<0.5	3.2	4.1	12	530	--	--	--	--
	9/5/01	3,400	ND<2	ND<2	ND<2	4.1	770	--	--	--	--
	11/7/01	3,600	ND<0.5	0.64	0.75	2.7	790	--	--	--	--
	2/11/02	4,100	ND<2	2.2	61	26	750	--	--	--	--
	6/3/02	4,100	ND<1	7.0	67	37	320	--	--	--	--
	8/6/02	4,500	ND<1	5.4	18	18	310	--	--	--	--
	11/14/02	5,200	ND<1	ND<1	2.2	6.4	280	ND<0.5	ND<0.5	ND<0.5	13
	2/20/03	6,300	ND<1.5	9.5	280	69	220	ND<2	ND<2	ND<2	--
	5/15/03	5,700	1.2	14	280	78	130	ND<1	ND<1	ND<1	11
	7/31/03	4,700	ND<0.5	4.5	20	17	110	ND<1.5	ND<1.5	ND<1.5	7.5
	10/28/03	1,900	ND<0.5	0.54	0.80	2.9	88	ND<1.5	ND<1.5	ND<1.5	5.9
	2/28/04	3,500	ND<1	ND<1	17	7.9	44	ND<1	ND<1	ND<1	ND<10
	4/16/04	6,000	ND<1.5	3.0	150	34	53	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/16/04	6,300	ND<1	3.5	110	29	40	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/13/04	4,900	ND<0.5	4.8	42	23	25	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/4/05	5,000	ND<0.5	3.3	46	30	21	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/13/05	4,000	0.81	6.5	200	120	29	ND<0.5	ND<0.5	ND<0.5	ND<5
	8/10/05	6,600	2.0	6.5	74	72	29	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/5/05	6,000	3.0	9.7	17	56	5.5	ND<0.5	ND<0.5	ND<0.5	ND<5
1/30/06	3,800	1.8	3.9	61	29	16	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/28/06	5,800	3.1	7.0	210	120	38	ND<0.5	ND<0.5	ND<0.5	8.4	
8/15/06	5,400	1.7	4.2	22	40	42	ND<0.5	ND<0.5	ND<0.5	7.3	
10/26/06	5,000	0.71	2.2	4.8	25	24	ND<0.5	ND<0.5	ND<0.5	5.0	
2/2/07	4,900	0.72	2.3	7.4	15	21	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/30/07	4,300	ND<0.5	2.2	7.6	16	13	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/18/07	2,700	ND<0.5	0.97	ND<0.5	3.4	4.8	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/30/07	3,400	ND<0.5	0.73	ND<0.5	2.1	1.9	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/28/08	2,600	ND<0.5	0.88	ND<0.5	1.5	0.76	ND<0.5	ND<0.5	ND<0.5	ND<5	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-10 (cont.) DUP	5/13/08	4,100	ND<0.5	0.66	ND<0.5	3.0	1.1	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/16/08	2,700	ND<0.5	ND<0.5	ND<0.5	1.4	0.80	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/8/08	1,900	ND<0.5	ND<0.5	ND<0.5	0.63	0.63	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/09	1,900	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.88	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/09	2,800	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.72	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/15/09	2,400	ND<0.5	ND<0.5	0.67	1.4	1.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/1/09	2,900	ND<0.5	ND<0.5	ND<0.5	1.4	1.4	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/7/09	2,800	ND<0.5	ND<0.5	ND<0.5	0.61	1.3	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/17/10	3,300	ND<0.5	ND<0.5	0.58	0.90	1.0	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/14/10	4,300	ND<0.5	ND<0.5	24	6.9	0.80	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/7/10	3,600	ND<0.5	ND<0.5	2.0	9.1	1.8	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	2,900	ND<0.5	ND<0.5	ND<0.5	2.0	0.88	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	3,500	ND<0.5	ND<0.5	1.6	2.1	0.59	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/5/11	4,000	ND<0.5	0.55	34	11	1.7	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-11	2/18/92	2,400	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	5/14/92	1,600	ND<0.5	1.9	1.3	0.70	--	--	--	--	--
	8/27/92	2,100	15	2.0	0.60	1.2	--	--	--	--	--
	11/19/92	490	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	2/3/93	500	ND<0.5	ND<0.5	0.55	ND<0.5	--	--	--	--	--
	6/23/93	350	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/22/93	200	ND<0.5	0.65	ND<0.5	0.71	--	--	--	--	--
	1/24/94	450	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	4/7/94	500	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/7/94	560	ND<0.5	ND<0.5	ND<0.5	0.64	--	--	--	--	--
	9/28/94	600	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	12/14/94	340	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	3/15/95	340	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	6/13/95	210 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
	9/28/95	93	4.1	0.50	ND<0.5	ND<0.5	--	--	--	--	--
	12/28/95	380 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	3/12/96	110	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	6/11/96	400 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	10/2/96	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
	1/28/97	110 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--
5/20/97	330	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--	
8/18/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	
3/31/98	460	ND<0.5	2.8	12	16	ND<0.5	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-11 (cont.)	5/28/98	1,100	14	24	88	75	24	--	--	--	--
	8/19/98	1200	16	9.6	69	17	6.0	--	--	--	--
	11/17/98	580	15	4.4	14	ND<0.5	21	--	--	--	--
	2/18/99	390	8.0	ND<0.5	1.4	ND<0.5	44	--	--	--	--
	6/24/99	610	4.6	ND<0.5	0.66	ND<0.5	59	--	--	--	--
	11/9/99	250	0.87	ND<0.5	ND<0.5	ND<0.5	66	--	--	--	--
	3/22/00	330	ND<0.5	ND<0.5	ND<0.5	ND<0.5	100	--	--	--	--
	6/12/00	52	ND<0.5	ND<0.5	ND<0.5	ND<0.5	49	--	--	--	--
	11/15/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.8	--	--	--	--
	5/21/01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	30	--	--	--	--
	11/7/01	360	ND<0.5	ND<0.5	ND<0.5	ND<0.5	330	--	--	--	--
	6/3/02	120	ND<0.5	ND<0.5	ND<0.5	ND<0.5	220	ND<0.5	ND<0.5	ND<0.5	13
	11/14/02	240	ND<1	ND<1	ND<1	ND<1	380	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/15/03	160	ND<0.5	ND<0.5	ND<0.5	ND<0.5	170	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/28/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	35	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/28/04	360	ND<0.5	ND<0.5	ND<0.5	ND<0.5	140	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/16/04	440	ND<0.5	ND<0.5	ND<0.5	ND<0.5	110	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/16/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/13/04	230	ND<0.5	ND<0.5	ND<0.5	ND<0.5	49	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/4/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.0	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/13/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/5/05	310	ND<0.5	0.71	ND<0.5	1.6	4.8	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.0	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/28/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.8	ND<0.5	ND<0.5	ND<0.5	ND<5
	8/15/06	65	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.1	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/26/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.3	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/2/07	930	ND<0.5	ND<0.5	ND<0.5	0.72	27	ND<0.5	ND<0.5	ND<0.5	ND<5
4/30/07	740	ND<0.5	0.58	ND<0.5	0.64	28	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/18/07	490	ND<0.5	ND<0.5	ND<0.5	ND<0.5	19	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/30/07	420	ND<0.5	ND<0.5	ND<0.5	ND<0.5	28	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/28/08	280	ND<0.5	ND<0.5	ND<0.5	ND<0.5	18	ND<0.5	ND<0.5	ND<0.5	ND<5	
5/13/08	480	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/16/08	370	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	ND<0.5	ND<0.5	ND<0.5	ND<5	
10/8/08	320	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	ND<0.5	ND<0.5	ND<0.5	ND<5	
1/30/09	280	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	ND<0.5	ND<0.5	ND<0.5	ND<5	
DUP	1/30/09	300	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.1	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/15/09	300	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.2	ND<0.5	ND<0.5	ND<0.5	ND<5

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
MW-11 (cont.)	7/1/09	240	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.1	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/7/09	410	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.0	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/17/10	460	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.0	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/14/10	260	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.77	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/7/10	400	ND<0.5	ND<0.5	ND<0.5	0.80	1.9	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	130	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.74	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	240	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.77	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/5/11	250	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.2	ND<0.5	ND<0.5	ND<0.5	ND<5
MW-12	7/18/07	68 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/30/07	70 ^(g)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/28/08	60 ^(g)	ND<0.5	ND<0.5	ND<0.5	0.57	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/13/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/16/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/8/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/29/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/14/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/1/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/7/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/17/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/13/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/27/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
4/5/11	53	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	
RW-1	5/15/92	790	270	62	29	140	--	--	--	--	--
	8/27/92	24,000	1,300	200	68	810	--	--	--	--	--
	2/3/93	620	71	35	22	110	--	--	--	--	--
	6/23/93	220	30	33	9.8	35	--	--	--	--	--
	9/22/93	4,100	800	400	170	910	--	--	--	--	--
	1/24/94	190	33	6.0	6.9	23	--	--	--	--	--
	4/7/94	1,500	110	57	32	260	--	--	--	--	--
	6/7/94	1,700	130	51	45	180	--	--	--	--	--
	9/28/94	350	54	9.2	12	29	--	--	--	--	--
	12/14/94	79	6.8	2.1	1.2	3.4	--	--	--	--	--
	4/10/95	410	54	11	11	69	--	--	--	--	--
	6/13/95	8,200	1,600	780	340	1,400	--	--	--	--	--
	9/28/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	--
12/28/95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	--	--	--	--	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
RW-1 (cont.)	3/12/96	86	ND<0.5	ND<0.5	ND<0.5	ND<0.5	110	--	--	--	--
	6/11/96	230	38	11	4.7	50	68	--	--	--	--
	10/2/96	360	68	29	14	75	47	--	--	--	--
	1/28/97	ND<50	0.77	ND<0.5	ND<0.5	ND<0.5	9.0	--	--	--	--
	5/20/97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	32	--	--	--	--
	8/18/97	220	25	ND<0.5	ND<0.5	3.6	170	--	--	--	--
	9/29/97	900	240	2.8	51	55	230	--	--	--	--
	11/5/97	1,300	340	3.2	59	78	220	--	--	--	--
	3/31/98	4,100	450	130	200	940	4,100	--	--	--	--
	5/28/98	14,000	830	210	170	720	14,000	--	--	--	--
	8/19/98	2,100	20	ND<2.5	7.1	15	2,100	--	--	--	--
	11/17/98	630	7.8	ND<2.5	5.6	ND<2.5	730	--	--	--	--
	2/18/99	180	6.7	1.6	3.2	15	100	--	--	--	--
	6/24/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	42	--	--	--	--
	8/30/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	79	--	--	--	--
	11/9/99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	78	--	--	--	--
	3/22/00	ND<50	1.2	ND<0.5	ND<0.5	ND<0.5	17	--	--	--	--
	6/12/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.0	40	--	--	--
	11/15/00	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	290	--	--	--	--
	2/26/01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	360	--	--	--	--
	5/21/01	100	4.1	1.6	1.8	23	170	--	--	--	--
	9/5/01	73	33	ND<0.5	ND<0.5	ND<0.5	310	--	--	--	--
	11/7/01	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	240	--	--	--	--
	2/11/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	21	--	--	--	--
	6/3/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	160	ND<0.5	ND<0.5	ND<0.5	7.7
	8/6/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	190	ND<0.5	ND<0.5	ND<0.5	6.0
	11/14/02	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	170	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/20/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	120	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/15/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	110	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/31/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	99	ND<0.5	ND<0.5	ND<0.5	ND<5
10/28/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	88	ND<0.5	ND<0.5	ND<0.5	ND<5	
2/28/04	ND<50	1.3	ND<0.5	ND<0.5	ND<0.5	52	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/16/04	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	57	ND<0.5	ND<0.5	ND<0.5	ND<5	
7/16/04	ND<50	0.72	ND<0.5	ND<0.5	ND<0.5	100	ND<0.5	ND<0.5	ND<0.5	4.2	
11/13/04	ND<50	1.0	ND<0.5	ND<0.5	ND<0.5	71	ND<0.5	ND<0.5	ND<0.5	ND<5	
2/4/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	45	ND<0.5	ND<0.5	ND<0.5	ND<5	
4/13/05	ND<50	1.1	ND<0.5	ND<0.5	ND<0.5	52	ND<0.5	ND<0.5	ND<0.5	12	

TABLE D-1

**HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107**

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
RW-1 (cont.)	8/10/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	29	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/5/05	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	27	ND<0.5	ND<0.5	ND<0.5	ND<5
DUP	1/30/06	ND<50	0.61	ND<0.5	ND<0.5	1.3	23	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/28/06	ND<50	0.69	ND<0.5	ND<0.5	1.6	16	ND<0.5	ND<0.5	ND<0.5	ND<5
	8/15/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	18	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/26/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	16	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/2/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/30/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/18/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.3	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/30/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.9	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/28/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.3	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/13/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.5	ND<0.5	ND<0.5	ND<0.5	6.8
	7/16/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.2	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/8/08	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.6	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/29/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.2	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/14/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.3	ND<0.5	ND<0.5	ND<0.5	6.6
	7/1/09	750	ND<0.5	ND<0.5	ND<0.5	0.67	1.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/7/09	ND<50	0.68	ND<0.5	ND<0.5	ND<0.5	23	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/17/10	82	3.0	ND<0.5	4.0	1.4	10	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/13/10	ND<50	4.2	ND<0.5	4.8	1.1	9.7	ND<0.5	ND<0.5	ND<0.5	7.5
	7/6/10	ND<50	0.82	ND<0.5	ND<0.5	ND<0.5	8.0	ND<0.5	ND<0.5	ND<0.5	ND<5
10/28/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.4	ND<0.5	ND<0.5	ND<0.5	6.6	
1/25/11	230	17	ND<0.5	1.2	ND<0.5	9.6	ND<0.5	ND<0.5	ND<0.5	9.3	
4/5/11	410	26	0.52	7.6	3.9	8.3	ND<0.5	ND<0.5	ND<0.5	8.1	
RW-2	11/13/04	4,200	ND<0.5	ND<0.5	45	70	29	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/4/05	2,900	ND<0.5	ND<0.5	24	24	41	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/13/05	1,400	ND<0.5	ND<0.5	8.6	9.9	39	ND<0.5	ND<0.5	ND<0.5	ND<5
	8/10/05	2,900	ND<0.5	ND<0.5	26	33	29	ND<0.5	ND<0.5	ND<0.5	ND<5
	11/5/05	2,400	ND<0.5	ND<0.5	16	19	12	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/06	1,200	ND<0.5	ND<0.5	4.6	5.3	17	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/28/06	1,200	ND<0.5	ND<0.5	12	15	19	ND<0.5	ND<0.5	ND<0.5	ND<5
	8/15/06	1,200	ND<0.5	ND<0.5	6.7	7.0	18	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/26/06	760	ND<0.5	ND<0.5	0.81	7.5	7.6	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/2/07	1,100	ND<0.5	ND<0.5	0.75	1.3	2.3	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/30/07	3,300	190	13	230	230	32	ND<0.5	ND<0.5	ND<0.5	18
7/18/07	810	ND<0.5	ND<0.5	1.1	3.2	2.2	ND<0.5	ND<0.5	ND<0.5	ND<5	

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
RW-2 (cont.)	10/30/07	290	29	0.60	2.7	6.5	15	ND<0.5	ND<0.5	ND<0.5	8.6
	1/28/08	3,300	250	7.9	190	170	33	ND<0.5	ND<0.5	ND<0.5	17
DUP	5/13/08	190	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.8	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/16/08	360	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.4	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/8/08	400	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.7	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/29/09	100	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/09	430	ND<0.5	ND<0.5	ND<0.5	0.74	0.74	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/15/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.51	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/1/09	52	1.5	ND<0.5	ND<0.5	ND<0.5	14	ND<0.5	ND<0.5	ND<0.5	6.7
	10/7/09	350	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.85	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/18/10	620	ND<0.5	ND<0.5	ND<0.5	0.92	0.84	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/14/10	390	ND<0.5	ND<0.5	ND<0.5	1.1	0.97	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/7/10	380	ND<0.5	ND<0.5	ND<0.5	0.79	0.82	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/28/10	220	ND<0.5	ND<0.5	ND<0.5	0.67	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	460	ND<0.5	ND<0.5	ND<0.5	0.70	0.52	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/6/11	280	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
DW-15800 ^(h)	1/14/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.81	ND<0.5	ND<0.5	ND<0.5	ND<5
	3/20/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	9/19/06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/5/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/29/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
DW-15808 ^(h)	1/14/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	3/20/03	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	9/19/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/5/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/29/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
DW-246 ^(h)	9/19/06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/5/07 ⁽ⁱ⁾	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.0
	2/21/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	5/29/07	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
OS-1	9/5/08	800	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/8/08	610	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
DUP	1/29/09	65	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/09	150	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/15/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/1/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
OS-1 (cont.)	10/7/09	60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/18/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
OS-2	9/5/08	1,300	ND<0.5	0.56	ND<0.5	ND<0.5	0.99	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/29/09	200	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/09	1900	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.55	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/15/09	1200	ND<0.5	ND<0.5	0.72	ND<0.5	1.3	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/1/09	1,500	ND<0.5	ND<0.5	0.69	ND<0.5	1.8	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/7/09	1,200	ND<0.5	ND<0.5	0.55	ND<0.5	1.4	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/18/10	140	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.82	ND<0.5	ND<0.5	ND<0.5	ND<5
1/25/11	1,200	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.2	ND<0.5	ND<0.5	ND<0.5	ND<5	
OS-3 DUP	9/5/08	3,200	160	15	72	470	19	ND<0.5	ND<0.5	ND<0.5	23
	10/8/08	4,100	240	38	240	630	22	ND<0.5	ND<0.5	ND<0.5	20
	1/29/09	670	78	3.5	75	28	11	ND<0.5	ND<0.5	ND<0.5	7.8
	1/30/09	1,400	140	5.3	120	120	11	ND<0.5	ND<0.5	ND<0.5	16
	4/15/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	32	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/1/09	2,100	220	6.8	190	250	20	ND<0.5	ND<0.5	ND<0.5	18
	10/7/09	2,100	230	6.5	150	230	20	ND<0.5	ND<0.5	ND<0.5	16
	2/18/10	1,600	180	3.7	120	140	23	ND<0.5	ND<0.5	ND<0.5	8.6
1/25/11	140	13	ND<0.5	3.1	0.64	25	ND<0.5	ND<0.5	ND<0.5	6.7	
OS-4 DUP	9/5/08	210	ND<0.5	ND<0.5	ND<0.5	3.6	16	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/8/08	170	4.2	ND<0.5	ND<0.5	2.4	12	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/29/09	ND<50	1.4	ND<0.5	ND<0.5	ND<0.5	21	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/09	ND<50	ND<0.5	ND<0.5	0.79	ND<0.5	22	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/15/09	88	12	ND<0.5	2.2	0.58	19	ND<0.5	ND<0.5	ND<0.5	28
	7/1/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	34	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/7/09	680	14	ND<0.5	8.6	12	38	ND<0.5	ND<0.5	ND<0.5	12
	2/18/10	ND<50	ND<0.5	ND<0.5	ND<0.5	0.55	25	ND<0.5	ND<0.5	ND<0.5	ND<5
1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.8	ND<0.5	ND<0.5	ND<0.5	ND<5	
PT-1 DUP	9/5/08	240	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.9	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/8/08	140	ND<0.5	ND<0.5	ND<0.5	1.0	5.4	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/29/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.3	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/30/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.6	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/15/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.9	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/1/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/7/09	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	ND<0.5	ND<0.5	ND<0.5	ND<5
	2/18/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	17	ND<0.5	ND<0.5	ND<0.5	ND<5

TABLE D-1

HISTORICAL GROUNDWATER MONITORING ANALYTICAL RESULTS
TESORO - SAN LORENZO, 67107

Monitoring Well	Sample Date ^(a)	TPHg ^(b) (µg/l)	Benzene ^(b) (µg/l)	Toluene ^(b) (µg/l)	Ethylbenzene ^(b) (µg/l)	Total Xylenes ^(b) (µg/l)	MTBE ^(b) (µg/l)	DIPE ^(b) (µg/l)	ETBE ^(b) (µg/l)	TAME ^(b) (µg/l)	TBA ^(b) (µg/l)
ESLs ^(c)		100	1.0	40	30	20	5.0	NE ^(d)	NE	NE	12
PT-1 (cont.)	4/14/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	ND<0.5	ND<0.5	ND<0.5	ND<5
	7/7/10	61	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.2	ND<0.5	ND<0.5	ND<0.5	ND<5
	10/28/10	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.4	ND<0.5	ND<0.5	ND<0.5	ND<5
	1/25/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.3	ND<0.5	ND<0.5	ND<0.5	ND<5
	4/6/11	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.4	ND<0.5	ND<0.5	ND<0.5	ND<5

- (a) Samples collected before January 2008 reported by others; data provided by RDM Environmental, Inc. (RDM), Fourth Quarter 2007 Groundwater Monitoring Report
- (b) Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, xylenes, methyl tert-butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), tert-butyl alcohol (TBA), analyzed by EPA Method 8260; reported in micrograms per liter (µg/l).
- (c) Environmental Screening Levels (ESLs) taken from Regional Water Quality Control Board, San Francisco Bay Region, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Volume 1: Summary Tier 1 Lookup tables dated November 2007.
- (d) NE - Not established.
- (e) "--" - Not analyzed.
- (f) ND - Not detected at the reporting limit listed; reporting limit not listed if not previously reported.
- (g) Not typical gasoline.
- (h) Domestic water wells (used as irrigation wells); DW-15800 collected from well at 15800 Via Cordoba, DW-15808 collected from well at 15808 Via Cordoba, DW-246 collected from well at 246 Peach Drive in San Lorenzo, CA.
- (i) Property owner had the RDM technician sample a faucet plumbed to city water. RDM resampled the 246 Peach well on 21 February 2007.

ATTACHMENT E

**LABORATORY ANALYTICAL REPORT AND
CHAIN-OF-CUSTODY FORM**



Laboratory Results

Mike Purchase
Arctos Environmental
1332 Peralta Avenue
Berkeley, CA 94702

Subject : 12 Water Samples
Project Name : Tesoro - San Lorenzo #67107
Project Number : 01ZO

Dear Mr. Purchase,

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. Testing procedures comply with the 2003 NELAC standard. All soil samples are reported on a total weight (wet weight) basis unless noted otherwise in the case narrative. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Joel Kiff

Subject : 12 Water Samples
Project Name : Tesoro - San Lorenzo #67107
Project Number : 01ZO

Case Narrative

The Method Reporting Limit for Ethanol has been increased due to the presence of an interfering compound for sample MW-10.

California Laboratory Services provided analytical testing associated with these samples, but is not accredited by the National Environmental Laboratory Accreditation Program (NELAP).

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **MW-1**

Matrix : Water

Lab Number : 77019-01

Sample Date :04/05/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	04/06/11 23:00
Toluene	< 0.50	0.50	ug/L	EPA 8260B	04/06/11 23:00
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/06/11 23:00
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	04/06/11 23:00
Methyl-t-butyl ether (MTBE)	0.59	0.50	ug/L	EPA 8260B	04/06/11 23:00
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	04/06/11 23:00
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	04/06/11 23:00
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	04/06/11 23:00
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	04/06/11 23:00
Methanol	< 50	50	ug/L	EPA 8260B	04/06/11 23:00
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	04/06/11 23:00
TPH as Gasoline	63	50	ug/L	EPA 8260B	04/06/11 23:00
1,2-Dichloroethane-d4 (Surr)	99.5		% Recovery	EPA 8260B	04/06/11 23:00
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	04/06/11 23:00

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **MW-2**

Matrix : Water

Lab Number : 77019-02

Sample Date :04/05/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	04/06/11 23:31
Toluene	< 0.50	0.50	ug/L	EPA 8260B	04/06/11 23:31
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/06/11 23:31
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	04/06/11 23:31
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	04/06/11 23:31
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	04/06/11 23:31
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	04/06/11 23:31
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	04/06/11 23:31
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	04/06/11 23:31
Methanol	< 50	50	ug/L	EPA 8260B	04/06/11 23:31
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	04/06/11 23:31
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	04/06/11 23:31
1,2-Dichloroethane-d4 (Surr)	99.2		% Recovery	EPA 8260B	04/06/11 23:31
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	04/06/11 23:31

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **MW-3R**

Matrix : Water

Lab Number : 77019-03

Sample Date :04/06/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Nitrate as N	0.62	0.10	mg/L	EPA 300.0	04/07/11 13:07
Sulfate	24	0.50	mg/L	EPA 300.0	04/07/11 13:07
Iron	3.1	0.10	mg/L	EPA 6010B	04/12/11 16:29
Benzene	71	0.50	ug/L	EPA 8260B	04/07/11 00:03
Toluene	1.2	0.50	ug/L	EPA 8260B	04/07/11 00:03
Ethylbenzene	43	0.50	ug/L	EPA 8260B	04/07/11 00:03
Total Xylenes	14	0.50	ug/L	EPA 8260B	04/07/11 00:03
Methyl-t-butyl ether (MTBE)	14	0.50	ug/L	EPA 8260B	04/07/11 00:03
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 00:03
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 00:03
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 00:03
Tert-Butanol	11	5.0	ug/L	EPA 8260B	04/07/11 00:03
Methanol	< 50	50	ug/L	EPA 8260B	04/07/11 00:03
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	04/07/11 00:03
TPH as Gasoline	980	50	ug/L	EPA 8260B	04/07/11 00:03
1,2-Dichloroethane-d4 (Surr)	97.0		% Recovery	EPA 8260B	04/07/11 00:03
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	04/07/11 00:03

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **MW-4**

Matrix : Water

Lab Number : 77019-04

Sample Date :04/05/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 00:34
Toluene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 00:34
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 00:34
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 00:34
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 00:34
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 00:34
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 00:34
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 00:34
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	04/07/11 00:34
Methanol	< 50	50	ug/L	EPA 8260B	04/07/11 00:34
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	04/07/11 00:34
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	04/07/11 00:34
1,2-Dichloroethane-d4 (Surr)	99.5		% Recovery	EPA 8260B	04/07/11 00:34
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	04/07/11 00:34

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **MW-6**

Matrix : Water

Lab Number : 77019-05

Sample Date :04/06/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Nitrate as N	17	0.50	mg/L	EPA 300.0	04/07/11 14:32
Sulfate	40	2.5	mg/L	EPA 300.0	04/07/11 14:32
Iron	8.9	0.10	mg/L	EPA 6010B	04/12/11 16:33
Benzene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 01:06
Toluene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 01:06
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 01:06
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 01:06
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 01:06
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 01:06
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 01:06
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 01:06
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	04/07/11 01:06
Methanol	< 50	50	ug/L	EPA 8260B	04/07/11 01:06
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	04/07/11 01:06
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	04/07/11 01:06
1,2-Dichloroethane-d4 (Surr)	99.8		% Recovery	EPA 8260B	04/07/11 01:06
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	04/07/11 01:06

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **MW-7**

Matrix : Water

Lab Number : 77019-06

Sample Date :04/05/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 01:37
Toluene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 01:37
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 01:37
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 01:37
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 01:37
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 01:37
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 01:37
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 01:37
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	04/07/11 01:37
Methanol	< 50	50	ug/L	EPA 8260B	04/07/11 01:37
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	04/07/11 01:37
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	04/07/11 01:37
1,2-Dichloroethane-d4 (Surr)	99.8		% Recovery	EPA 8260B	04/07/11 01:37
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	04/07/11 01:37

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **MW-10**

Matrix : Water

Lab Number : 77019-07

Sample Date :04/05/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 02:09
Toluene	0.55	0.50	ug/L	EPA 8260B	04/07/11 02:09
Ethylbenzene	34	0.50	ug/L	EPA 8260B	04/07/11 02:09
Total Xylenes	11	0.50	ug/L	EPA 8260B	04/07/11 02:09
Methyl-t-butyl ether (MTBE)	1.7	0.50	ug/L	EPA 8260B	04/07/11 02:09
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 02:09
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 02:09
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 02:09
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	04/07/11 02:09
Methanol	< 50	50	ug/L	EPA 8260B	04/07/11 02:09
Ethanol	< 20	20	ug/L	EPA 8260B	04/07/11 02:09
TPH as Gasoline	4000	50	ug/L	EPA 8260B	04/07/11 02:09
1,2-Dichloroethane-d4 (Surr)	92.5		% Recovery	EPA 8260B	04/07/11 02:09
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	04/07/11 02:09

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **MW-11**

Matrix : Water

Lab Number : 77019-08

Sample Date :04/05/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 02:40
Toluene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 02:40
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 02:40
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 02:40
Methyl-t-butyl ether (MTBE)	1.2	0.50	ug/L	EPA 8260B	04/07/11 02:40
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 02:40
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 02:40
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 02:40
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	04/07/11 02:40
Methanol	< 50	50	ug/L	EPA 8260B	04/07/11 02:40
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	04/07/11 02:40
TPH as Gasoline	250	50	ug/L	EPA 8260B	04/07/11 02:40
1,2-Dichloroethane-d4 (Surr)	99.6		% Recovery	EPA 8260B	04/07/11 02:40
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	04/07/11 02:40

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **MW-12**

Matrix : Water

Lab Number : 77019-09

Sample Date :04/05/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 03:12
Toluene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 03:12
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 03:12
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 03:12
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 03:12
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 03:12
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 03:12
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 03:12
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	04/07/11 03:12
Methanol	< 50	50	ug/L	EPA 8260B	04/07/11 03:12
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	04/07/11 03:12
TPH as Gasoline	53	50	ug/L	EPA 8260B	04/07/11 03:12
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	04/07/11 03:12
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	04/07/11 03:12

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **PT-1**

Matrix : Water

Lab Number : 77019-10

Sample Date :04/06/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Nitrate as N	0.92	0.10	mg/L	EPA 300.0	04/07/11 15:01
Sulfate	32	0.50	mg/L	EPA 300.0	04/07/11 15:01
Iron	1.9	0.10	mg/L	EPA 6010B	04/12/11 16:37
Benzene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 03:43
Toluene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 03:43
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 03:43
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 03:43
Methyl-t-butyl ether (MTBE)	6.4	0.50	ug/L	EPA 8260B	04/07/11 03:43
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 03:43
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 03:43
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 03:43
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	04/07/11 03:43
Methanol	< 50	50	ug/L	EPA 8260B	04/07/11 03:43
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	04/07/11 03:43
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	04/07/11 03:43
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	04/07/11 03:43
Toluene - d8 (Surr)	98.7		% Recovery	EPA 8260B	04/07/11 03:43

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **RW-1**

Matrix : Water

Lab Number : 77019-11

Sample Date :04/05/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	26	0.50	ug/L	EPA 8260B	04/07/11 04:14
Toluene	0.52	0.50	ug/L	EPA 8260B	04/07/11 04:14
Ethylbenzene	7.6	0.50	ug/L	EPA 8260B	04/07/11 04:14
Total Xylenes	3.9	0.50	ug/L	EPA 8260B	04/07/11 04:14
Methyl-t-butyl ether (MTBE)	8.3	0.50	ug/L	EPA 8260B	04/07/11 04:14
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 04:14
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 04:14
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 04:14
Tert-Butanol	8.1	5.0	ug/L	EPA 8260B	04/07/11 04:14
Methanol	< 50	50	ug/L	EPA 8260B	04/07/11 04:14
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	04/07/11 04:14
TPH as Gasoline	410	50	ug/L	EPA 8260B	04/07/11 04:14
1,2-Dichloroethane-d4 (Surr)	99.8		% Recovery	EPA 8260B	04/07/11 04:14
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	04/07/11 04:14

Project Name : **Tesoro - San Lorenzo #67107**

Project Number : **01ZO**

Sample : **RW-2**

Matrix : Water

Lab Number : 77019-12

Sample Date :04/06/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Nitrate as N	6.0	0.20	mg/L	EPA 300.0	04/07/11 16:54
Sulfate	57	1.0	mg/L	EPA 300.0	04/07/11 16:54
Iron	0.90	0.10	mg/L	EPA 6010B	04/12/11 16:41
Benzene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 04:46
Toluene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 04:46
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 04:46
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 04:46
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 04:46
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 04:46
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 04:46
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	04/07/11 04:46
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	04/07/11 04:46
Methanol	< 50	50	ug/L	EPA 8260B	04/07/11 04:46
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	04/07/11 04:46
TPH as Gasoline	280	50	ug/L	EPA 8260B	04/07/11 04:46
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	04/07/11 04:46
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	04/07/11 04:46

QC Report : Method Blank DataProject Name : **Tesoro - San Lorenzo #67107**Project Number : **01ZO**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Iron	< 0.10	0.10	mg/L	EPA 6010B	04/12/2011
Benzene	< 0.50	0.50	ug/L	EPA 8260B	04/06/2011
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/06/2011
Toluene	< 0.50	0.50	ug/L	EPA 8260B	04/06/2011
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	04/06/2011
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	04/06/2011
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	04/06/2011
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	04/06/2011
Methanol	< 50	50	ug/L	EPA 8260B	04/06/2011
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	04/06/2011
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	04/06/2011
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	04/06/2011
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	04/06/2011
1,2-Dichloroethane-d4 (Surr)	99.3		%	EPA 8260B	04/06/2011
Toluene - d8 (Surr)	105		%	EPA 8260B	04/06/2011
Nitrate as N	< 0.10	0.10	mg/L	EPA 300.0	04/07/2011
Sulfate	< 0.50	0.50	mg/L	EPA 300.0	04/07/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Tesoro - San Lorenzo #67107**Project Number : **01ZO**

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
Nitrate as N	77019-03	0.62	0.500	0.500	1.10	1.08	mg/L	EPA 300.0	4/7/11	95.0	91.8	1.48	85.0-115	10
Sulfate	77019-03	24	2.50	2.50	27.1	27.0	mg/L	EPA 300.0	4/7/11	108	105	0.275	85.0-115	10
Benzene	77009-03	<0.50	40.0	40.0	39.6	37.4	ug/L	EPA 8260B	4/6/11	99.1	93.6	5.76	80-120	25
Diisopropyl ether	77009-03	<0.50	40.0	40.0	37.8	37.8	ug/L	EPA 8260B	4/6/11	94.6	94.6	0.0292	80-120	25
Ethanol	77009-03	<5.0	100	100	92.7	95.3	ug/L	EPA 8260B	4/6/11	92.4	94.9	2.77	55.1-159	25
Ethyl-tert-butyl ether	77009-03	<0.50	40.0	40.0	40.2	39.5	ug/L	EPA 8260B	4/6/11	100	98.8	1.62	76.5-120	25
Ethylbenzene	77009-03	<0.50	40.0	40.0	41.3	39.3	ug/L	EPA 8260B	4/6/11	103	98.2	5.08	80-120	25
Methanol	77009-03	<50	1000	1000	1010	1020	ug/L	EPA 8260B	4/6/11	101	102	1.07	53.2-147	25
Methyl-t-butyl ether	77009-03	<0.50	39.9	39.9	38.8	38.6	ug/L	EPA 8260B	4/6/11	97.4	97.0	0.456	69.7-121	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Tesoro - San Lorenzo #67107**Project Number : **01ZO**

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
P + M Xylene	77009-03	<0.50	40.0	40.0	40.9	38.9	ug/L	EPA 8260B	4/6/11	102	97.3	5.07	76.8-120	25
Tert-Butanol	77009-03	7.9	200	200	207	210	ug/L	EPA 8260B	4/6/11	99.6	101	1.29	80-120	25
Tert-amyl-methyl ether	77009-03	<0.50	40.0	40.0	41.0	40.0	ug/L	EPA 8260B	4/6/11	102	100	2.41	78.9-120	25
Toluene	77009-03	<0.50	40.0	40.0	43.3	40.0	ug/L	EPA 8260B	4/6/11	108	99.9	8.08	80-120	25
Iron	77009-03	< 0.10	0.400	0.400	0.424	0.420	mg/L	EPA 6010B	4/12/11	100	99.2	0.853	75-125	20

QC Report : Laboratory Control Sample (LCS)

Project Name : **Tesoro - San Lorenzo #67107**Project Number : **01ZO**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Iron	0.400	mg/L	EPA 6010B	4/12/11	98.3	85-115
Benzene	40.0	ug/L	EPA 8260B	4/6/11	97.3	80-120
Diisopropyl ether	40.0	ug/L	EPA 8260B	4/6/11	92.8	80-120
Ethanol	100	ug/L	EPA 8260B	4/6/11	95.6	55.1-159
Ethyl-tert-butyl ether	40.0	ug/L	EPA 8260B	4/6/11	98.7	76.5-120
Ethylbenzene	40.0	ug/L	EPA 8260B	4/6/11	102	80-120
Methanol	1000	ug/L	EPA 8260B	4/6/11	101	53.2-147
Methyl-t-butyl ether	39.9	ug/L	EPA 8260B	4/6/11	94.8	69.7-121
P + M Xylene	40.0	ug/L	EPA 8260B	4/6/11	99.4	76.8-120
TPH as Gasoline	498	ug/L	EPA 8260B	4/6/11	85.9	70.0-130
Tert-Butanol	200	ug/L	EPA 8260B	4/6/11	98.2	80-120
Tert-amyl-methyl ether	40.0	ug/L	EPA 8260B	4/6/11	99.6	78.9-120
Toluene	40.0	ug/L	EPA 8260B	4/6/11	108	80-120
Nitrate as N	0.500	mg/L	EPA 300.0	4/7/11	91.5	85.0-115
Sulfate	2.50	mg/L	EPA 300.0	4/7/11	99.8	85.0-115

SAMPLE RECEIPT CHECKLIST

RECEIVER
Gay
Initials

SRG#: 77019 Date: 040611
Project ID: Tesoro - San Lorenzo # 67107
Method of Receipt: Courier Over-the-counter Shipper

COC Inspection

Is COC present? Yes No
Custody seals on shipping container? Intact Broken Not present N/A
Is COC Signed by Relinquisher? Yes No Dated? Yes No
Is sampler name legibly indicated on COC? Yes No
Is analysis or hold requested for all samples Yes No
Is the turnaround time indicated on COC? Yes No
Is COC free of whiteout and uninitialed cross-outs? Yes No, Whiteout No, Cross-outs

Sample Inspection

Coolant Present: Yes No (includes water)
Temperature °C 5.7 Therm. ID# IR-1 Initial Gay Date/Time 040611 1231 N/A
Are there custody seals on sample containers? Intact Broken Not present
Do containers match COC? Yes No No, COC lists absent sample(s) No, Extra sample(s) present
Are there samples matrices other than soil, water, air or carbon? Yes No
Are any sample containers broken, leaking or damaged? Yes No
Are preservatives indicated? Yes, on sample containers Yes, on COC Not indicated N/A
Are preservatives correct for analyses requested? Yes No N/A
Are samples within holding time for analyses requested? Yes No
Are the correct sample containers used for the analyses requested? Yes No
Is there sufficient sample to perform testing? Yes No
Does any sample contain product, have strong odor or are otherwise suspected to be hot? Yes No

Receipt Details

Matrix WA Container type UOA # of containers received 36
Matrix WA Container type poly # of containers received 24
Matrix WA Container type glass # of containers received 8
Date and Time Sample Put into Temp Storage Date: 040611 Time: 1248

Quicklog

Are the Sample ID's indicated: On COC On sample container(s) On Both Not indicated
If Sample ID's are listed on both COC and containers, do they all match? Yes No N/A
Is the Project ID indicated: On COC On sample container(s) On Both Not indicated
If project ID is listed on both COC and containers, do they all match? Yes No N/A
Are the sample collection dates indicated: On COC On sample container(s) On Both Not indicated
If collection dates are listed on both COC and containers, do they all match? Yes No N/A
Are the sample collection times indicated: On COC On sample container(s) On Both Not indicated
If collection times are listed on both COC and containers, do they all match? Yes No N/A

COMMENTS: COC lists 500ml poly 1 liter poly received instead IR 040611 1351



Subcontract Laboratory Report Attachments

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

April 18, 2011

CLS Work Order #: CUD0253
COC #: 77019

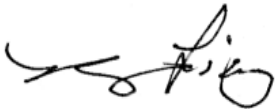
Scott Forbes
KIFF Analytical
2795 Second St. Suite 300
Davis, CA 95616

Project Name: Tesoro - San Lorenzo #67107

Enclosed are the results of analyses for samples received by the laboratory on 04/06/11 16:18. 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
2795 Second St. Suite 300
Davis, CA 95616

Project: Tesoro - San Lorenzo #67107
Project Number: M2-110405
Project Manager: Scott Forbes

CLS Work Order #: CUD0253
COC #: 77019

CUD0253

		2795 Second Street, Suite 300 Davis, CA 95618 Lab: 530.297.4800 Fax: 530.297.4808		California Laboratory Services 3249 Fitzgerald Road Rancho Cordova, CA 95742 916-638-7301		COC No. 77019		Page 1 of 1				
Project Contact (Hardcopy or PDF to): Scott Forbes			EDF Report? YES		Chain-of-Custody Record and Analysis Request							
Company/Address: Kiff Analytical			Recommended but not mandatory to complete this section: Sampling Company Log Code: CESC		Analysis Request					TAT		
Phone No.: 530-297-4800	FAX No.: 530-297-4808	Global ID: T0600101414										
Project Number: M2-110405	P.O. No.: 77019	Deliverables to (Email Address): inbox@kiffanalytical.com										
Project Name: Tesoro - San Lorenzo #67107		Container / Preservative		Matrix								
Project Address: _____		Sampling										
Sample Designation		Date	Time	1-L Poly None	250ml Poly None	Water	Biochemical Oxygen Demand	Iron, Ferrous			Standard	For Lab Use Only
MW-3R		04/06/11	10:05	1	1	X	X	X			X	
MW-6		04/06/11	09:45	1	1	X	X	X			X	
PT-1		04/06/11	09:30	1	1	X	X	X			X	
RW-2		04/06/11	09:55	1	1	X	X	X			X	
<i>lab 4/6/11</i>		<i>04/06/11</i>	<i>16:18</i>									
Relinquished by: <i>Kathleen Macal</i>		Date 4/6/11	Time 16:18	Received by: <i>[Signature]</i>		Remarks:						
Relinquished by:		Date	Time	Received by:		Bill to: Accounts Payable						
Relinquished by:		Date 4/6/11	Time 16:18	Received by Laboratory: <i>[Signature]</i>								

CALIFORNIA LABORATORY SERVICES

Page 2 of 5

04/18/11 15:53

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

Project: Tesoro - San Lorenzo #67107
Project Number: M2-110405
Project Manager: Scott Forbes

CLS Work Order #: CUD0253

COC #: 77019

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3R (CUD0253-01) Water Sampled: 04/06/11 10:05 Received: 04/06/11 16:18									
Biochemical Oxygen Demand	4.8	3.0	mg/L	1	CU02454	04/12/11	04/17/11	SM5210B	A-COM
Ferrous Iron	0.16	0.10	"	"	CU02345	04/07/11	04/07/11	SM3500-Fe D	
MW-6 (CUD0253-02) Water Sampled: 04/06/11 09:45 Received: 04/06/11 16:18									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CU02436	04/07/11	04/12/11	SM5210B	
Ferrous Iron	ND	0.10	"	"	CU02345	04/07/11	04/07/11	SM3500-Fe D	
PT-1 (CUD0253-03) Water Sampled: 04/06/11 09:30 Received: 04/06/11 16:18									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CU02454	04/12/11	04/17/11	SM5210B	A-COM
Ferrous Iron	ND	0.10	"	"	CU02345	04/07/11	04/07/11	SM3500-Fe D	
RW-2 (CUD0253-04) Water Sampled: 04/06/11 09:55 Received: 04/06/11 16:18									
Biochemical Oxygen Demand	ND	3.0	mg/L	1	CU02436	04/07/11	04/12/11	SM5210B	
Ferrous Iron	ND	0.10	"	"	CU02345	04/07/11	04/07/11	SM3500-Fe D	

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

www.californialab.com

916-638-7301

Fax: 916-638-4510

CALIFORNIA LABORATORY SERVICES

KIFF Analytical 2795 Second St. Suite 300 Davis, CA 95616	Project: Tesoro - San Lorenzo #67107 Project Number: M2-110405 Project Manager: Scott Forbes	CLS Work Order #: CUD0253 COC #: 77019
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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
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Batch CU02345 - General Preparation

Blank (CU02345-BLK1)				Prepared & Analyzed: 04/07/11						
Ferrous Iron	ND	0.10	mg/L							
LCS (CU02345-BS1)				Prepared & Analyzed: 04/07/11						
Ferrous Iron	0.235	0.10	mg/L	0.250		94	80-120			
LCS Dup (CU02345-BSD1)				Prepared & Analyzed: 04/07/11						
Ferrous Iron	0.252	0.10	mg/L	0.250		101	80-120	7	25	
Matrix Spike (CU02345-MS1)				Source: CUD0253-01		Prepared & Analyzed: 04/07/11				
Ferrous Iron	0.381	0.10	mg/L	0.250	0.162	87	75-125			
Matrix Spike Dup (CU02345-MSD1)				Source: CUD0253-01		Prepared & Analyzed: 04/07/11				
Ferrous Iron	0.392	0.10	mg/L	0.250	0.162	92	75-125	3	30	

Batch CU02436 - General

Blank (CU02436-BLK1)				Prepared: 04/07/11 Analyzed: 04/12/11						
Biochemical Oxygen Demand	ND	3.0	mg/L							
Blank (CU02436-BLK2)				Prepared: 04/07/11 Analyzed: 04/12/11						
Biochemical Oxygen Demand	ND	3.0	mg/L							
LCS (CU02436-BS1)				Prepared: 04/07/11 Analyzed: 04/12/11						
Biochemical Oxygen Demand	177	3.0	mg/L	167		106	83-138			
LCS (CU02436-BS2)				Prepared: 04/07/11 Analyzed: 04/12/11						
Biochemical Oxygen Demand	165	3.0	mg/L	167		99	83-138			

CALIFORNIA LABORATORY SERVICES

KIFF Analytical 2795 Second St. Suite 300 Davis, CA 95616	Project: Tesoro - San Lorenzo #67107 Project Number: M2-110405 Project Manager: Scott Forbes	CLS Work Order #: CUD0253 COC #: 77019
---	--	---

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 CU02436 - General										
LCS Dup (CU02436-BSD1)					Prepared: 04/07/11 Analyzed: 04/12/11					
Biochemical Oxygen Demand	174	3.0	mg/L	167		104	83-138	2	21	
LCS Dup (CU02436-BSD2)					Prepared: 04/07/11 Analyzed: 04/12/11					
Biochemical Oxygen Demand	162	3.0	mg/L	167		97	83-138	2	21	
Batch CU02454 - General										
Blank (CU02454-BLK1)					Prepared: 04/12/11 Analyzed: 04/17/11					
Biochemical Oxygen Demand	ND	3.0	mg/L							
LCS (CU02454-BS1)					Prepared: 04/12/11 Analyzed: 04/17/11					
Biochemical Oxygen Demand	153	3.0	mg/L	167		92	83-138			
LCS Dup (CU02454-BSD1)					Prepared: 04/12/11 Analyzed: 04/17/11					
Biochemical Oxygen Demand	183	3.0	mg/L	167		110	83-138	18	21	

CALIFORNIA LABORATORY SERVICES

Page 5 of 5

04/18/11 15:53

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

Project: Tesoro - San Lorenzo #67107
Project Number: M2-110405
Project Manager: Scott Forbes

CLS Work Order #: CUD0253
COC #: 77019

Notes and Definitions

- A-COM Samples were initially analyzed within holding time but failed to deplete required 2.0 mg/l. Samples were re analyzed using larger sample volumes outside of holding time
- 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

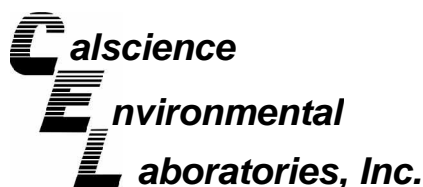
CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742

www.californialab.com

916-638-7301

Fax: 916-638-4510



April 13, 2011

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

Subject: **CalScience Work Order No.: 11-04-0413**
Client Reference: Tesoro - San Lorenzo #67107

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/7/2011 and analyzed in accordance with the attached chain-of-custody.

CalScience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. 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,

A handwritten signature in cursive script that reads 'Amanda Porter'.

CalScience Environmental
Laboratories, Inc.
Amanda Porter
Project Manager

Analytical Report



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

Date Received: 04/07/11
Work Order No: 11-04-0413

Project: Tesoro - San Lorenzo #67107

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix
MW-3R	11-04-0413-1	04/06/11	Aqueous

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	04/09/11	04/09/11	EPA 410.4
Alkalinity, Total (as CaCO ₃)	520	5.00	1		mg/L	N/A	04/11/11	SM 2320B
Carbon, Total Organic	2.8	0.50	1		mg/L	N/A	04/07/11	SM 5310 D

MW-6	11-04-0413-2	04/06/11	Aqueous
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Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	04/09/11	04/09/11	EPA 410.4
Alkalinity, Total (as CaCO ₃)	310	5.00	1		mg/L	N/A	04/11/11	SM 2320B
Carbon, Total Organic	1.4	0.50	1		mg/L	N/A	04/07/11	SM 5310 D

PT-1	11-04-0413-3	04/06/11	Aqueous
------	--------------	----------	---------

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	04/09/11	04/09/11	EPA 410.4
Alkalinity, Total (as CaCO ₃)	452	5.00	1		mg/L	N/A	04/11/11	SM 2320B
Carbon, Total Organic	1.6	0.50	1		mg/L	N/A	04/07/11	SM 5310 D


RW-2	11-04-0413-4	04/06/11	Aqueous
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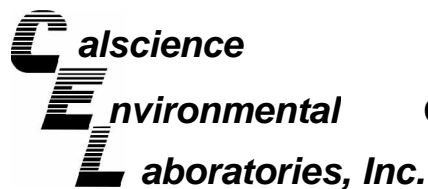
Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	04/09/11	04/09/11	EPA 410.4
Alkalinity, Total (as CaCO ₃)	342	5.00	1		mg/L	N/A	04/11/11	SM 2320B
Carbon, Total Organic	1.5	0.50	1		mg/L	N/A	04/07/11	SM 5310 D

Method Blank					N/A			Aqueous
--------------	--	--	--	--	-----	--	--	---------

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	04/09/11	04/09/11	EPA 410.4
Alkalinity, Total (as CaCO ₃)	ND	1.0	1		mg/L	N/A	04/11/11	SM 2320B
Carbon, Total Organic	ND	0.50	1		mg/L	N/A	04/07/11	SM 5310 D

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





Quality Control - Spike/Spike Duplicate



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

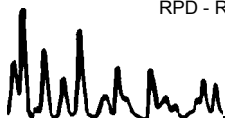
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Work Order No: 11-04-0413

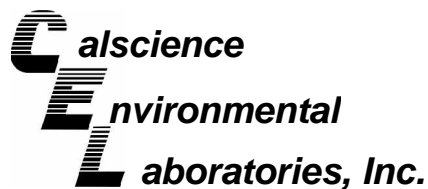
Project: Tesoro - San Lorenzo #67107

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>MS% REC</u>	<u>MSD % REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	SM 5310 D	11-04-0533-4	04/07/11	N/A	97	97	75-125	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Duplicate



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Davis, CA 95616-6593

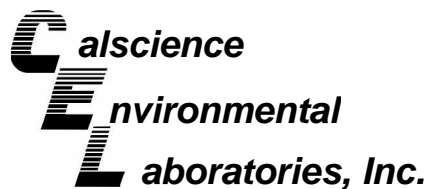
Date Received: N/A
Work Order No: 11-04-0413

Project: Tesoro - San Lorenzo #67107

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Alkalinity, Total (as CaCO ₃)	SM 2320B	11-04-0513-3	04/11/11	364	364	0	0-25	
Bicarbonate (as CaCO ₃)	SM 2320B	11-04-0513-3	04/11/11	364	364	0	0-25	
Carbonate (as CaCO ₃)	SM 2320B	11-04-0513-3	04/11/11	ND	ND	NA	0-25	
Hydroxide (as CaCO ₃)	SM 2320B	11-04-0513-3	04/11/11	ND	ND	NA	0-25	
Chemical Oxygen Demand	EPA 410.4	11-04-0291-1	04/09/11	32	33	3	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

Date Received:
Work Order No:

N/A
11-04-0413

Project: Tesoro - San Lorenzo #67107

Matrix: Aqueous or Solid

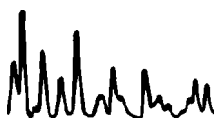
<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> Sample ID	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>LCS %</u> <u>REC</u>	<u>LCSD %</u> <u>REC</u>	<u>%REC</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qual</u>
Carbon, Total Organic	SM 5310 D	099-05-097-4,231	N/A	04/07/11	102	102	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 11-04-0413

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD 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 without further clarification.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
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.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.





2795 Second Street, Suite 300
 Davis, CA 95618
 Lab: 530.297.4800
 Fax: 530.297.4808

Calscience
 7440 Lincoln Way
 Garden Grove, CA 92841-1427
 714-895-5494

COC No. **0413**
77019

Project Contact (Hardcopy or PDF to): **Scott Forbes** EDF Report? **YES** **Chain-of-Custody Record and Analysis Request**

Company/Address: **Kiff Analytical** Recommended but not mandatory to complete this section: **Analysis Request** TAT

Phone No.: **530-297-4800** FAX No.: **530-297-4808** Global ID: **T0600101414**

Project Number: **M2-110405** P.O. No.: **77019** Deliverables to (Email Address): **inbox@kiffanalytical.com**

Project Name: **Tesoro - San Lorenzo #67107** Container / Preservative Matrix

Project Address: Sampling 250ml Glass H2SO4 250ml Poly None Water Alkalinity SM 2320 (1) Chemical Oxygen Demand Total Organic Carbon 4-Days For Lab Use Only

Sample Designation Date Time

MW-3R 04/06/11 10:05 2 1 X X X X X

MW-6 04/06/11 09:45 2 1 X X X X X

PT-1 04/06/11 09:30 2 1 X X X X X

RW-2 04/06/11 09:55 2 1 X X X X X

Relinquished by: *[Signature]* Kiff Analytical Date: **04/06/11** Time: **1900** Received by: Remarks: Please refer to attached Test Detail.

Relinquished by: Date: Time: Received by:

Relinquished by: **ONTAC** Date: **4/7/11** Time: **0800** Received by Laboratory: *[Signature]* Bill to: **Accounts Payable**

0413

Test Detail for Kiff Work Order: 77019

Alkalinity SM 2320 (1)
Alkalinity, Total (as CaCO₃)



800.334.5000
ontrac.com



D10010368086033

Date Printed 4/6/2011

Tracking#D10010368086033

Shipped From:
KIFF ANALYTICAL
2795 2ND STREET 300
DAVIS, CA 95616

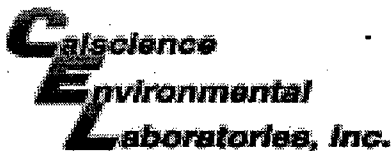
Sent By: SAMPLE RECEIVING
Phone#: (530)297-4800
wgt(lbs): 1
Reference: SUB SRG
Reference 2:

Ship To Company:
CALSCIENCE ENVIRONMENTAL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841
RECEIVING (714)895-5494

B10207210772

Service: **G**
Sort Code: **ORG**

Special Services:
Signature Required



WORK ORDER #: 11-04-0413

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: KIPP ANALYTICAL

DATE: 04/07/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.2 °C + 0.5 °C (CF) = 2.7 °C [X] Blank [] Sample

[] Sample(s) outside temperature criteria (PM/APM contacted by: _____).

[] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

[] Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: [] Air [] Filter

Initial: WB

CUSTODY SEALS INTACT:

[X] Cooler [] _____ [] No (Not Intact) [] Not Present [] N/A
[] Sample [] _____ [] No (Not Intact) [X] Not Present

Initial: WB
Initial: WB

SAMPLE CONDITION:

Table with 4 columns: Description, Yes, No, N/A. Rows include Chain-Of-Custody (COC) document(s) received with samples, COC document(s) received complete, Collection date/time, matrix, and/or # of containers logged in based on sample labels, No analysis requested, Not relinquished, No date/time relinquished, Sampler's name indicated on COC, Sample container label(s) consistent with COC, Sample container(s) intact and good condition, Proper containers and sufficient volume for analyses requested, Analyses received within holding time, pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours, Proper preservation noted on COC or sample container, Unpreserved vials received for Volatiles analysis, Volatile analysis container(s) free of headspace, Tedlar bag(s) free of condensation.

CONTAINER TYPE:

Solid: [] 4ozCGJ [] 8ozCGJ [] 16ozCGJ [] Sleeve (____) [] EnCores® [] TerraCores® [] _____
Water: [] VOA [] VOA h [] VOAna2 [] 125AGB [] 125AGBh [] 125AGBp [] 1AGB [] 1AGBna2 [] 1AGBs
[] 500AGB [] 500AGJ [] 500AGJs [] 250AGB [] 250CGB [] 250CGBs [] 1PB [] 500PB [] 500PBna
[X] 250PB [] 250PBn [] 125PB [] 125PBzanna [] 100PJ [] 100PJna2 [] _____ [] _____ [] _____

Air: [] Tedlar® [] Summa® Other: [] _____ Trip Blank Lot#: _____ Labeled/Checked by: WB

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: JP

Preservative: h: HCL n: HNO3 na2: Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 zanna: ZnAc2+NaOH f: Field-filtered Scanned by: JP

ATTACHMENT F
TREND ANALYSIS

ATTACHMENT F TREND ANALYSIS

Arctos conducted a statistical trend analysis of historical groundwater monitoring data for groundwater wells with petroleum hydrocarbon impacts above the Regional Water Quality Control Board, San Francisco Bay Region's (RWQCB), Environmental Screening Levels (ESLs). The objective of the analysis was to determine if there were any statistically significant trends in the total petroleum hydrocarbons as gasoline (TPHg), benzene, methyl tert-butyl ether (MTBE), or tert-butyl alcohol (TBA) results that would require additional remedial activities. In accordance with U.S. Environmental Protection Agency (EPA) guidance for data quality evaluation, a Mann-Kendall nonparametric trend test was used to identify decreasing, stable, or increasing concentration trends at individual wells and, by extension, identify a decreasing, stable, or increasing plume within a 95 percent confidence interval (EPA, 2000). The results of the trend analysis are summarized in the following table.

Well	Number of Sampling Events	Trend			
		TPHg	Benzene	MTBE	TBA
Onsite Wells					
MW-1	62	Decreasing	Below ESL	Below ESL	Below ESL
MW-3R	27	Decreasing	Decreasing	Decreasing	Below ESL
RW-1	62	Decreasing	Decreasing	Decreasing	Below ESL
RW-2	27	Decreasing	Below ESL	Below ESL	Below ESL
PT-1	12	Below ESL	Below ESL	Stable	Below ESL
Offsite Wells					
MW-10	61	Decreasing	Below ESL	Below ESL	Below ESL
MW-11	52	Decreasing	Below ESL	Below ESL	Below ESL

All of the onsite groundwater monitoring wells with concentrations above the ESLs show decreasing trends for TPHg, benzene, and MTBE, except for well PT-1. Well PT-1 shows a stable trend for MTBE over the past 12 monitoring events (since September 2008), with concentrations steadily decreasing since February 2010. Both offsite wells MW-10 and MW-11 show decreasing trends for TPHg.

Reference

U.S. Environmental Protection Agency (EPA), 2000. *Practical Methods for Data Analysis, EPA QA/G-9, QA00 Update*, July.

ATTACHMENT G
WASTE MANIFESTS

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. <i>COA 11-018</i>	2. Page 1 of
3. Generator's Name and Mailing Address <i>Tesco # 67107 44 Lewelling Blvd. San Leandro CA</i>				<i>Confluence Env</i>	
4. Generator's Phone ()					
5. Transporter 1 Company Name <i>Confluence Env</i>		6. US EPA ID Number		A. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone <i>416 760 7611</i>	
9. Designated Facility Name and Site Address <i>ISI 1105 Airport Rd. Rio Vista CA</i>		10. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone <i>707-374-3834</i>	
11. WASTE DESCRIPTION			12. Containers		13. Total Quantity
			No.	Type	14. Unit Wt./Vol.
a. <i>NON HAZ PURGEWATER</i>			<i>1</i>	<i>Poly</i>	<i>135</i>
b. <i>NON HAZ PURGEWATER</i>			<i>1</i>	<i>Poly</i>	<i>177</i>
c.					
d.					
G. Additional Descriptions for Materials Listed Above <i>Color - clear odor - o solids - o</i>				H. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name				Signature	
				Date Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name <i>BRANDON AIVENS</i>		Signature <i>[Signature]</i>		Month Day Year <i>4/5/11</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name <i>[Signature]</i>				Signature	
				Date Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY