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**TESORO**

Tesoro Petroleum Companies, Inc.  
3450 South 344th Way, Suite 201  
Auburn, WA 98001-5931  
253 896 8700  
253 896 8887 Fax

November 24, 2004

Ms. Eva Chu  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, room 250  
Alameda, California 94502

Mr. Steven Ritchie  
Regional Water Quality Control Board  
San Francisco Bay Region  
1515 Clay Street, Suite 1400  
Oakland, California 94612

DEC 09 2004  
Environmental Health

**RE: Groundwater Monitoring and Remediation System Status Report  
Third Quarter 2004  
44 Lewelling Boulevard San Lorenzo, California  
Former Tesoro Station No. 67107**

Dear Ms. Chu and Mr. Ritchie:

Tesoro Petroleum Companies, Inc., on behalf of Tesoro Environmental Resources Company (Tesoro) submits the referenced report for your review. Groundwater monitoring data were collected on July 16, 2004 from the site monitoring wells.

On-site remediation systems are composed of:

- ◆ soil vapor extraction (did not operate, blower and compressor being replaced),
- ◆ groundwater extraction and treatment (operated intermittently pump/system upgraded, additional recovery wells added to system), and
- ◆ air injection sparging (did not operate this quarter, compressor failure, compressor is being upgraded and system is being amended with ozone and three additional injection wells ).

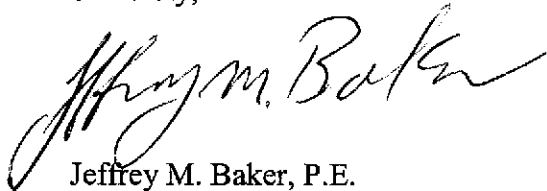
TPHg and MTBE concentrations in site-related monitoring wells continue to be elevated and therefore warrant additional efforts to remediate this site.

Tesoro recommends the following steps also be implemented to expedite site cleanup:

- Continue vacuum extraction of groundwater and perform quarterly sampling of MW-10 and MW-11 to address MTBE concentrations in these wells until incorporation of MW-3, MW-10 and RW-2 (a new recovery well) into the recovery well pumping system is completed.
- Continue quarterly monitoring of constituents of concern at the site.
- Implement ozone enhanced air sparging in new injection wells as an additional remediation tactic to improve cleanup efficiency.

Please review the report and recommendations above and provide project direction. Please contact me with any questions or concerns regarding this project at (253) 896-8708. Thank you for your continued cooperation concerning this project.

Sincerely,

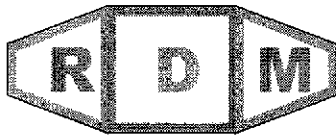


Jeffrey M. Baker, P.E.  
Supervisor, Environmental  
Compliance & Remediation  
Tesoro Petroleum Companies, Inc.

Attachment

CC: RDM – Richard Munsch (w/o attachment)  
Brian Kelleher – Kelleher & Associates  
File – Remediation, San Lorenzo

Hirbod Enterprises – Owner  
Sam Hirbod  
111 Deerwood Road, Suite 110  
San Ramon, CA 94583



## Environmental

1704 Via Riata, Roseville, CA 95747  
October 31, 2004

Tel: (916) 771-7098, FAX : (916) 771-4584

Mr. Jeff Baker  
Tesoro Environmental Resources Company  
3450 S. 344<sup>th</sup> Way, Suite 100  
Auburn, Washington 98001-5931

Subject: *Quarterly Ground Water Monitoring and  
Remediation System Status Report, Third Quarter 2004*  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)  
44 Lewelling Boulevard  
San Lorenzo, California  
RDM Project No. 02-67107

Dear Mr. Baker:

On Behalf of Tesoro Environmental Resources Company (Tesoro), RDM Environmental (RDM) is submitting the following quarterly monitoring report to the Alameda County Environmental Health Department (ACEHD). This report describes quarterly ground water monitoring and remediation system status for the **Third Quarter 2004**.

### **Work Performed During the Third Quarter 2004:**

- RDM performed ground water sampling on **July 16, 2004**.
- RDM conducted operation and maintenance on the remediation system.
- On September 16, 2004, RDM installed recovery wells MW-3R and RW-2.
- RDM is in the process of upgrading the remediation system. These modifications include adding the new recovery wells to the existing ground water remediation system and replacing the soil vapor extraction blower and air sparging compressor.

### **STATUS OF GROUND WATER MONITORING**

Cumulative ground water sampling information is summarized in Table 1. A site location map, site detail map, ground water elevation map, and benzene, total petroleum hydrocarbons as gasoline, and methyl-t-butyl ether (MTBE) isoconcentration maps are shown on Figures 1 through 6, respectively. The site history is included in Enclosure A, the quarterly monitoring data sheets are included in Enclosure B and the ground water analytical results are included in Enclosure C.

- Local ground water flows toward recovery well RW-1 and historical ground water flow direction is to the southwest.

### **STATUS OF REMEDIATION SYSTEM**

Operation and maintenance is performed bi-monthly by RDM on a remediation system consisting of ground water treatment, soil vapor extraction (SVE) and air sparging components. Details of system performance and cumulative totals are tabulated in Tables 2 through 4. A process flow diagram showing details of the system is shown as Figure 7.

#### **Operation & Maintenance Site Visits:**

- Operation and maintenance site visits were conducted for the **Third Quarter 2004** on:
  - **July 6 and 28, 2004**
  - **August 17 and 30, 2004**
  - **September 11 and 18, 2004**

#### **Ground Water Extraction System Performance:**

- The ground water treatment system operated intermittently during the **Third Quarter 2004**.
- During the **Third Quarter 2004**, the ground water system processed **234,770** gallons.
- As of **September 18, 2004**, the ground water system has processed approximately **3,927,350** gallons.
- The ground water system performance data is included in Table 2 and the remediation system analytical results are included in Enclosure D.
- Ground water is extracted from recovery well RW-1.

#### **Soil Vapor Extraction System Performance:**

- The SVE system did not operate during the **Third Quarter 2004**.
- During the **Third Quarter 2004**, the SVE system removed **0.0** pounds of vapor equivalent gasoline.
- As of **November 26, 2003**, the SVE system has removed approximately **210.5** pounds (**34.5** gallons) of vapor equivalent gasoline.
- The SVE analytical results are summarized in Table 3 and the SVE system performance data is included in Table 4.
- Soil vapor extraction was formerly conducted on wells MW-2, MW-3 and RW-1.
- The SVE system will be rehabilitated during the **Fourth Quarter, 2004**.

#### **Air Sparging System Performance:**

- The air sparging system did not operate during the **Third Quarter 2004**.
- Air sparging is currently being conducted on monitoring wells MW-2 and MW-4 and air sparging wells AS-1, AS-2 and AS-3.
- The air compressor is on a 50/50 duty cycle.
- The air sparge system will be rehabilitated during the **Fourth Quarter, 2004**.

### CONCLUSIONS/RECOMMENDATIONS

RDM recommends continued operation of the remediation system and quarterly ground water monitoring. Due to the persistent elevated concentrations of dissolved petroleum hydrocarbons in ground water in the vicinity of monitoring well MW-10, RDM began conducting monthly dewatering events on specific wells utilizing a vacuum truck. These monthly vacuum events will continue until MW-3R and recovery well RW-2 can be brought on line as ground water recovery wells utilizing the existing remediation system.

In addition, RDM recommends adding an ozone generator to the existing air sparging system to evaluate the effectiveness of ozone in eliminating the elevated concentrations of dissolved MTBE in the vicinity of the site. RDM and Tesoro will evaluate ozone sparging effectiveness and utility of expanding the ozone sparging network with additional sparge well installations.

RDM and Tesoro have not been able to obtain right-of-entry access to install a recovery well in the vicinity of monitoring well MW-10. Instead, RDM recommends conducting a 14-day dual phase extraction (DPE) event on MW-10 utilizing a mobile unit. RDM anticipates this DPE event may reduce hydrocarbon mass in soil and the ground water concentrations in the vicinity of MW-10 and help move the site toward closure.

The interpretations contained in this report represent our professional opinions and are based, in part, on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

RDM recommends a copy of this report be forwarded to the following people:

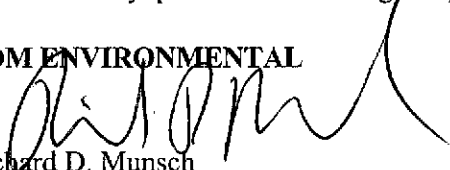
Ms. Eva Chu  
Alameda County  
Environmental Health Department  
470 27<sup>th</sup> Street, Room 322  
Oakland, CA 94612

Mr. Steven Ritchie – California Regional Water Quality Control Board  
San Francisco Bay Region  
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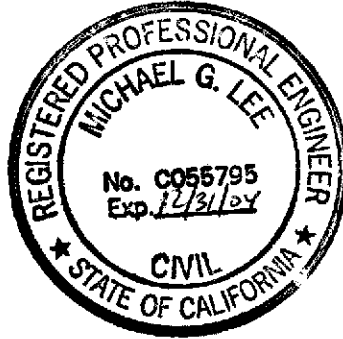
Mr. Jeff Baker  
Tesoro Environmental Resources Company  
October 31, 2004  
Page 4

If you have any questions concerning this project, please contact Richard Munsch at (916) 771-7098.

**RDM ENVIRONMENTAL**

  
Richard D. Munsch  
Project Manager

  
Michael G. Lee, P.E.  
California Registered Civil Engineer No. C055795



RDM (67107 3Q GWM 7-16-04.doc)

**Enclosures:**

- Enclosure A: Site Background Information
- Enclosure B: Ground Water Sampling Information
- Enclosure C: Ground Water Monitoring Analytical Results
- Enclosure D: Remediation System Analytical Results

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-1	02/18/92	43.67	16.42	27.25	NS	NS	NS	NS	NS	NS	NA	
	05/14/92		17.28	26.39	NS	NS	NS	NS	NS	NS	NA	
	05/15/92		NM	NC	2,000	47	1,200	400	41,000	NA	NA	
	08/27/92		19.48	24.19	NS	NS	NS	NS	NS	NS	NA	
	08/28/92		NM	NC	3,800	54	850	970	110,000	NA	NA	
	11/19/92		20.57	23.10	200	<5.0	90	140	3,600	NA	NA	
	02/03/93		15.91	27.76	180	22	79	130	3,000	NA	NA	
	06/23/93		16.21	27.46	2,400	74	650	510	12,000	NA	NA	No free product or sheen
	09/22/93		17.85	25.82	3,000	290	1,100	1,200	23,000	NA	NA	No free product or sheen
	01/24/94		17.91	25.76	2,400	280	1,100	1,700	18,000	NA	NA	
	04/07/94		16.94	26.73	4,200	820	1,600	2,100	20,000	NA	NA	No free product or sheen
	06/07/94		17.20	26.47	1,800	510	1,100	1,600	26,000	NA	NA	No free product or sheen
	09/28/94		18.73	24.94	1,700	210	970	870	18,000	NA	NA	No free product or sheen
	12/14/94		17.56	26.11	4,400	2,400	2,300	4,300	31,000	NA	NA	Product sheen
	03/15/95		14.92	28.75	830	310	840	1,200	17,000	NA	NA	Product sheen
	06/13/95		15.38	28.29	1,300	99	1,500	1,100	22,000	NA	NA	No free product or sheen
	09/28/95		16.75	26.92	580	<25	780	410	8,800	NA	NA	No free product or sheen
	12/28/95		17.28	26.39	4.9	<1.3	<1.3	290	4,800	74	NA	No free product or sheen
	01/30/96		NM	NC	17	7.1	20	45	1,500	63	NA	Not measured
	03/12/96		14.13	29.54	<0.5	<0.5	<0.5	<0.5	110	44	NA	No free product or sheen
	06/11/96		14.90	28.77	48	0.9	37	26	600	75	NA	No free product or sheen
	10/02/96		16.31	27.36	16	<0.5	6	0.92	210	11	NA	No free product or sheen
	01/28/97		12.99	30.68	<0.5	<0.5	<0.5	<0.5	150	160	NA	No free product or sheen
	05/20/97		15.28	28.39	<2.5	<2.5	<2.5	<2.5	680	640	NA	No free product or sheen
	08/18/97		16.74	26.93	<2.5	<2.5	<2.5	<2.5	<250	540	NA	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NA	Not measured
	11/05/97		17.45	26.22	2.8	<2.5	<2.5	<2.5	<250	400/390 <sup>b</sup>	NA	No free product or sheen
	03/31/98		12.47	31.20	260	13	110	150	3,300	7,900	NA	No free product or sheen
	05/26/98		13.69	29.98	NS	NS	NS	NS	NS	NS	NA	No free product or sheen

TABLE 1

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 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-1	05/28/98	43.67	NM	NC	120	<10	39	55	7,800	9,300	NA	No free product or sheen
(Cont.)	08/19/98		14.58	29.09	12	<2.5	6.0 <sup>c</sup>	3.8 <sup>c</sup>	<250 <sup>e</sup>	2,200	NA	No free product or sheen
	11/17/98		15.39	28.28	8.3	<2.5	9.2	7.6	860	4,200	NA	No free product or sheen
	02/18/99		13.52	30.15	2.7	<2.5	<2.5	3.9	310	4,200	NA	No free product or sheen
	06/24/99		15.02	28.65	10	<2.5	12	6.5	860	3,400	NA	No free product or sheen
	08/30/99		15.87	27.80	2.0	<0.5	3.9	2.0	140	2,800	NA	No free product or sheen
	11/09/99		16.65	27.02	<0.5	<0.5	3.1	2.0	170	1,500	NA	No free product or sheen
	03/22/00		13.96	29.71	2.8	<2.0	3.6	<2.0	<200	1,200	NA	No free product or sheen
	06/12/00		15.23	28.44	1.3	<1.0	<1.0	<1.0	190	640	NA	No free product or sheen
	11/15/00		17.05	26.62	<1.0	<0.1	<1.0	<1.0	240	960	NA	No free product or sheen
	02/26/01		15.46	28.21	1.2	<1.0	<1.0	<1.0	<100	2,800	NA	No free product or sheen
	05/21/01		16.22	27.45	<2.0	<2.0	<2.0	<2.0	<200	540	NA	No free product or sheen
	09/05/01		11.25	32.42	7.0	<2.0	<2.0	<2.0	<200	550	NA	No free product or sheen
	11/07/01		18.01	25.66	<2.0	<2.0	<2.0	<2.0	290	750	NA	No free product or sheen
	02/11/02	45.98	15.77	30.21	<1.0	<1.0	<1.0	<1.0	270	450	NA	No free product or sheen
	06/03/02		16.35	29.63	<2.0	<2.0	<2.0	<2.0	310	610	26 <sup>c</sup>	No free product or sheen
	08/06/02		17.00	28.98	<0.5	<0.5	<0.5	<0.5	170	540	20 <sup>c</sup>	No free product or sheen
	11/14/02		16.93	29.05	<2.0	<2.0	<2.0	<2.0	490	900	ND	No free product or sheen
	02/20/03		15.74	30.24	<1.0	<1.0	<1.0	<1.0	210	320	ND	No free product or sheen
	05/15/03		15.60	30.38	<1.5	<1.5	<1.5	<1.5	400	670	ND	No free product or sheen
	07/31/03		16.60	29.38	<1.5	<1.5	<1.5	<1.5	380	620	ND	No free product or sheen
	10/28/03		17.35	28.63	<1.0	<1.0	<1.0	<1.0	230	470	ND	No free product or sheen
	02/28/04		14.65	31.33	<0.5	<0.5	<0.5	<0.5	300	400	ND	No free product or sheen
	04/16/04		15.44	30.54	<1.5	<1.5	<1.5	<1.5	<200	510	ND	No free product or sheen
	07/16/04		15.99	29.99	<1.5	<1.5	<1.5	<1.5	280	660	ND	No free product or sheen



TABLE 1

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Tesoro Station No. 67107  
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San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-2	02/18/92	43.09	60.00	26.44	<0.5	<0.5	1.9	<0.5	1,600	NA	NA	
	05/14/92		16.64	26.45	1.2	1	1.3	<0.5	740	NA	NA	
	08/27/92		16.61	26.28	6.5	1.1	0.6	<0.5	1,400	NA	NA	
	11/19/92		19.91	23.18	<0.5	<0.5	2.7	<0.5	360	NA	NA	
	02/03/93		15.23	27.86	1.2	1.6	4.5	6.4	590	NA	NA	
	06/23/93		15.55	27.54	<0.5	<0.5	0.52	0.5	160	NA	NA	No free product or sheen
	09/22/93		17.22	25.87	<0.5	0.59	1.2	0.59	290	NA	NA	No free product or sheen
	01/24/94		17.20	25.89	<0.5	<0.5	0.68	<0.5	330	NA	NA	
	04/07/94		16.26	26.83	<0.5	<0.5	<0.5	4.4	490	NA	NA	No free product or sheen
	06/07/94		16.46	26.63	<0.5	<0.5	1.5	<0.5	550	NA	NA	No free product or sheen
	09/28/94		18.06	25.03	<0.5	<0.5	<0.5	<0.5	190	NA	NA	No free product or sheen
	12/14/94		16.86	26.23	7.2	0.84	<0.5	<0.5	1,400	NA	NA	No free product or sheen
	03/15/95		14.08	29.01	39	<0.5	0.53	<0.5	730	NA	NA	No free product or sheen
	06/13/95		14.67	28.42	8.3	<0.5	<0.5	<0.5	750 <sup>a</sup>	NA	NA	No free product or sheen
	09/28/95		16.07	27.02	<0.5	<0.5	<0.5	<0.5	670 <sup>a</sup>	NA	NA	No free product or sheen
	12/28/95		16.46	26.63	9.5	<5.0	<5.0	5.2	3,100	4,600	NA	No free product or sheen
	03/12/96		13.11	29.98	<1.3	<1.3	<1.3	<1.3	710	3,200	NA	No free product or sheen
	06/11/96		14.14	28.95	1.6	<1.3	<1.3	<1.3	1,900 <sup>a</sup>	5,100	NA	No free product or sheen
	10/02/96		15.71	27.38	<2.5	<2.5	<2.5	<2.5	2,800	7,900	NA	No free product or sheen
	01/28/97		12.05	31.04	<0.5	<0.5	<0.5	<0.5	130	210	NA	No free product or sheen
	05/20/97		14.65	28.44	120	16	<2.5	4.0	1,400	390	NA	No free product or sheen
	08/18/97		16.00	27.09	<2.5	<2.5	<2.5	<2.5	<250	2,000	NA	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	11/05/97		16.75	26.34	<2.5	<2.5	<2.5	<2.5	<250	2,900/2,900 <sup>b</sup>	NA	No free product or sheen
	03/31/98		11.54	31.55	<0.5	<0.5	<0.5	<0.5	<10,000	85,000	NA	No free product or sheen
	05/26/98		12.78	30.31	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	<500	<500	<500	<500	<50,000	97,000	NA	No free product or sheen
	08/19/98		14.40	28.69	<0.5	<0.5	<0.5	<0.5	210	22,000	NA	No free product or sheen
	11/17/98		15.18	27.91	<0.5	<0.5	<0.5	<0.5	<50	17,000	NA	No free product or sheen

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MW-2	02/18/99	43.09	14.07	29.02	<0.5	<0.5	<0.5	<0.5	<50	13,000	NA	No free product or sheen
(Cont.)	06/24/99		14.70	28.39	<15	<0.5	<0.5	<0.5	180	39,000	NA	No free product or sheen
	08/30/99		15.46	27.63	<25	<25	<25	<25	<2,500	18,000	NA	No free product or sheen
	11/09/99		16.03	27.06	<5.0	<5.0	<5.0	<5.0	<500	14,000	NA	No free product or sheen
	03/22/00		13.05	30.04	<5.0	<5.0	<5.0	<5.0	<500	54,000	NA	No free product or sheen
	06/12/00		14.50	28.59	<20	<20	<20	<20	<2,000	53,000	NA	No free product or sheen
	11/15/00		16.28	26.81	<50	<50	<50	<50	<5,000	35,000	NA	No free product or sheen
	02/26/01		14.98	28.11	<20	<20	<20	<20	<2,000	2,800	NA	No free product or sheen
	05/21/01		15.45	27.64	<25	<25	<25	<25	<5,000	20,000	NA	No free product or sheen
	09/05/01		15.17	27.92	<20	<20	<20	<20	<2,000	12,000	NA	No free product or sheen
	11/07/01		17.05	26.04	<20	<20	<20	<20	<2,000	7,600	NA	No free product or sheen
	02/11/02	45.23	13.29	31.94	<5.0	<5.0	<5.0	<5.0	<500	1,500	NA	No free product or sheen
	06/03/02		14.84	30.39	<5.0	<5.0	<5.0	<5.0	<500	2,200	190 <sup>e</sup>	No free product or sheen
	08/06/02		14.85	30.38	<5.0	<5.0	<5.0	<5.0	<500	3,300	110 <sup>e</sup>	No free product or sheen
	11/14/02		15.35	29.88	<10	<10	<10	<10	<1,000	3,200	120 <sup>e</sup>	No free product or sheen
	02/20/03		14.08	31.15	<0.5	<0.5	<0.5	<0.5	<50	160	ND	No free product or sheen
	05/15/03		14.55	30.68	<0.5	<0.5	<0.5	<0.5	<50	270	ND	No free product or sheen
	07/31/03		15.30	29.93	<0.5	<0.5	<0.5	<0.5	<50	300	ND	No free product or sheen
	10/28/03		14.93	30.30	<0.5	<0.5	<0.5	<0.5	<50	1,600	20 <sup>e</sup> , 1.8 <sup>f</sup>	No free product or sheen
	02/28/04		13.56	31.67	<0.5	<0.5	<0.5	<0.5	<50	340	ND	No free product or sheen
	04/16/04		14.40	30.83	<0.5	<0.5	<0.5	<0.5	<50	130	35 <sup>e</sup>	No free product or sheen
	07/16/04		15.03	30.20	<0.5	<0.5	<0.5	<0.5	<50	68	ND	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-3	02/18/92	43.10	16.89	26.21	NS	NS	NS	NS	NS	NS	NS	
	05/14/92		16.60	26.50	NS	NS	NS	NS	NS	NS	NS	
	05/15/92		NM	NC	6,300	5,900	1,700	6,100	160,000	NA	NA	
	08/27/92		18.96	24.14	NS	NS	NS	NS	NS	NS	NS	
	08/28/92		NM	NC	2,500	40,000	6,700	44,000	1,300,000	NA	NA	
	11/18/92		20.38	23.01	NS	NS	NS	NS	NS	NS	NS	
	11/19/92		NM	NC	NS	NS	NS	NS	NS	NS	NS	
	02/03/93		15.43	27.67	7,200	11,000	2,900	13,000	82,000	NA	NA	
	06/23/93		15.67	27.43	3,200	5,300	2,500	9,100	61,000	NA	NA	Product sheen
	09/22/93		17.20	25.90	12,000	14,000	3,900	18,000	94,000	NA	NA	No free product or sheen
	01/24/94		17.35	25.75	14,000	17,000	4,200	14,000	110,000	NA	NA	
	04/07/94		14.48	28.62	6,500	1,800	1,700	4,100	28,000	NA	NA	No free product or sheen
	06/07/94		13.37	29.73	6,400	2,300	1,500	3,500	27,000	NA	NA	Product sheen
	09/28/94		18.05	25.05	7,400	4,300	1,500	4,600	40,000	NA	NA	No free product or sheen
	12/14/94		16.92	26.18	17,000	21,000	3,900	22,000	140,000	NA	NA	Product sheen
	03/15/95		14.22	28.88	4,900	1,900	1,800	7,100	58,000	NA	NA	Product sheen
	06/13/95		14.49	28.61	7,200	2,900	1,200	4,600	44,000	NA	NA	Product sheen
	09/28/95		15.17	27.93	5,600	2,100	1,900	6,900	30,000	NA	NA	No free product or sheen
	12/28/95		15.45	27.65	32	5.8	18	4,700	16,000	360	NA	No free product or sheen
	01/30/96		NM	NC	850	800	190	1,700	8,700	430	NA	Not measured
	03/12/96		11.35	31.75	48	64	5.3	630	2,400	97	NA	No free product or sheen
	06/11/96		Dry	Dry	NS	NS	NS	NS	NS	NS	NS	Dry
	10/02/96		Dry	Dry	NS	NS	NS	NS	NS	NS	NS	Dry
	01/28/97		Dry	Dry	NS	NS	NS	NS	NS	NS	NS	Dry
	05/20/97		Dry	Dry	NS	NS	NS	NS	NS	NS	NS	Plugged at 14 feet
	07/10/97		NM	NC	<0.50	<0.50	<0.50	4.8	300	40	NA	Not measured
	08/18/97		16.05	27.05	480	8.4	100	230	3,600	170	NA	No free product or sheen
	09/29/97		NM	NC	740	8.6	160	240	3500	210	NA	Not measured
	11/05/97		16.78	26.32	870	15	180	210	4,100	240/210 <sup>b</sup>	NA	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-3	03/31/98	43.10	11.55	31.55	1,800	600	410	1,400	12,000	510	NA	No free product or sheen
(Cont.)	05/26/98		12.80	30.30	NS	NS	NS	NS	NS	NS	NA	No free product or sheen
	05/28/98		NM	NC	1,500	400	280	870	6,500	480	NA	No free product or sheen
	08/19/98		14.27	28.83	130	11	24	60	1,400	140	NA	No free product or sheen
	11/17/98		15.11	27.99	48	3.5	9.9	14	510	120	NA	No free product or sheen
	02/18/99		13.30	29.80	67	28	24	81	690	88	NA	No free product or sheen
	06/24/99		14.44	28.66	27	21	8.6	32	540	61	NA	No free product or sheen
	08/30/99		15.05	28.05	12	12	3.2	13	250	50	NA	No free product or sheen
	11/09/99		15.72	27.38	9.8	5.3	3.4	10	230	48	NA	No free product or sheen
	03/22/00		13.21	29.89	180	47	46	100	1,500	80	NA	No free product or sheen
	06/12/00		14.31	28.79	100	6.2	20	25	920	76	NA	No free product or sheen
	11/15/00		16.13	26.97	280	5.0	21	20	1,100	140	NA	No free product or sheen
	02/26/01		14.48	28.62	14	4.3	3.1	11	140	230	NA	No free product or sheen
	05/21/01		15.30	27.80	36	0.72	1.0	2.2	510	280	NA	No free product or sheen
	09/05/01		16.10	27.00	59	0.53	0.75	0.57	390	620	NA	No free product or sheen
	11/07/01		17.40	25.70	170	2.3	4.9	4.8	830	900	NA	No free product or sheen
	02/11/02	45.21	13.56	31.65	17	<2.5	4.7	7.9	370	1,200	NA	No free product or sheen
	06/03/02		15.54	29.67	120	<2.5	5.6	8.4	460	1,400	140 <sup>c</sup>	No free product or sheen
	08/06/02		16.20	29.01	110	<5.0	<5.0	<5.0	800	2,200	170 <sup>c</sup>	No free product or sheen
	11/14/02		16.50	28.71	89	<10	<10	<10	1,400	2,800	210 <sup>c</sup>	No free product or sheen
	02/20/03		14.99	30.22	14	<5.0	<5.0	<5.0	<500	2,300	97 <sup>c</sup>	No free product or sheen
	05/15/03		14.96	30.25	43	<5.0	<5.0	<5.0	<500	2,000	87 <sup>c</sup>	No free product or sheen
	07/31/03		15.40	29.81	280	<5.0	6.6	7.4	1,500	1,600	130 <sup>c</sup>	No free product or sheen
	10/28/03		16.20	29.01	140	1.6	6.5	4.0	2,200	1,100	74 <sup>e</sup> , 0.75 <sup>f</sup>	No free product or sheen
	02/28/04		13.86	31.35	99	31	12	52	1,200	1,500	82 <sup>e</sup>	No free product or sheen
	04/16/04		14.89	30.32	95	19	12	48	1,200	1,100	340 <sup>c</sup>	No free product or sheen
	07/16/04		15.42	29.79	94	27	9.4	38	980	810	580 <sup>c</sup>	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
Former Beacon Station No. 3721  
44 Lewelling Boulevard  
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-4	02/18/92	44.66	18.51	26.15	<0.5	<0.5	12	21	5,100	NA	NA	
	05/14/92		18.22	26.44	<0.5	5.6	1.8	2.2	4,600	NA	NA	
	08/27/92		20.47	24.19	NS	NS	NS	NS	NS	NS	NS	
	08/28/92		NM	NC	6.6	1.3	1.6	3.1	1,700	NA	NA	
	11/19/92		21.58	23.08	<0.5	<0.5	<0.5	<0.5	400	NA	NA	
	02/03/93		16.98	27.68	<0.5	<0.5	<0.5	<0.5	1,100	NA	NA	
	06/23/93		17.23	27.43	<0.5	<0.5	<0.5	<0.5	120	NA	NA	No free product or sheen
	09/22/93		18.83	25.83	<0.5	<0.5	<0.5	<0.5	110	NA	NA	No free product or sheen
	01/24/94		18.86	25.80	<0.5	<0.5	<0.5	<0.5	260	NA	NA	
	04/07/94		17.90	26.76	<0.5	<0.5	<0.5	<0.5	430	NA	NA	No free product or sheen
	06/07/94		18.08	26.58	<0.5	<0.5	<0.5	<0.5	150	NA	NA	No free product or sheen
	09/28/94		19.70	24.96	<0.5	<0.5	<0.5	<0.5	75	NA	NA	No free product or sheen
	12/14/94		18.55	26.11	<0.5	<0.5	<0.5	<0.5	160	NA	NA	No free product or sheen
	03/15/95		16.14	28.52	<0.5	<0.5	<0.5	<0.5	500	NA	NA	No free product or sheen
	06/13/95		16.41	28.25	<0.5	<0.5	<0.5	<0.5	210 <sup>a</sup>	NA	NA	No free product or sheen
	09/28/95		17.88	26.78	<0.5	<0.5	<0.5	<0.5	140 <sup>a</sup>	NA	NA	No free product or sheen
	12/28/95		17.81	26.85	<0.5	<0.5	<0.5	<0.5	510 <sup>a</sup>	<5.0	NA	No free product or sheen
	03/12/96		14.77	29.89	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	06/11/96		15.88	28.78	<0.5	<0.5	<0.5	<0.5	50 <sup>a</sup>	<5.0	NA	No free product or sheen
	10/02/96		17.40	27.26	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	01/28/97		14.11	30.55	<0.5	<0.5	<0.5	<0.5	270 <sup>a</sup>	<5.0	NA	No free product or sheen
	05/20/97		16.24	28.42	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	08/18/97		17.59	27.07	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	11/05/97		18.24	26.42	<0.5	<0.5	<0.5	<0.5	<50	<5.0/<0.5 <sup>b</sup>	NA	No free product or sheen
	03/31/98		13.61	31.05	<0.5	<0.5	<0.5	<0.5	110	<5.0	NA	No free product or sheen
	05/26/98		14.78	29.88	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	<0.5	<0.5	<0.5	<0.5	94	<5.0	NA	No free product or sheen
	08/19/98		16.15	28.51	<0.5 <sup>c</sup>	<0.5 <sup>c</sup>	<0.5 <sup>c</sup>	<0.5 <sup>c</sup>	120 <sup>c</sup>	46 <sup>c</sup>	NA	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
Former Beacon Station No. 3721  
44 Lewelling Boulevard  
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-4	11/17/98	44.66	16.93	27.73	1.3	<0.5	<0.5	<0.5	<50	780	NA	No free product or sheen
(Cont.)	02/18/99		15.30	29.36	8.2	<0.5	<0.5	<0.5	130	240	NA	No free product or sheen
	06/24/99		16.35	28.31	<1.0	<0.5	<0.5	<0.5	<50	2,100	NA	No free product or sheen
	08/30/99		17.12	27.54	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/09/99		17.60	27.06	<0.5	<0.5	<0.5	<0.5	<50	2,500	NA	No free product or sheen
	03/22/00		14.98	29.68	<0.5	<0.5	<0.5	<0.5	69	12,000	NA	No free product or sheen
	06/12/00		16.26	28.40	<20	<20	<20	<20	<2,000	17,000	NA	No free product or sheen
	11/15/00		17.98	26.68	<1.0	<1.0	<1.0	<1.0	<100	17,000	NA	No free product or sheen
	02/26/01		16.31	28.35	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/21/01		17.15	27.51	<25	<25	<25	<25	<5,000	13,000	NA	No free product or sheen
	09/05/01		18.22	26.44	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	11/07/01		19.01	25.65	<10	<10	<10	<10	<1,000	3,800	NA	No free product or sheen
	02/11/02	46.98	16.68	30.30	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	06/03/02		17.29	29.69	<2.0	<2.0	<2.0	<2.0	<200	1,100	38 <sup>e</sup> , 2.0 <sup>f</sup>	No free product or sheen
	08/06/02		17.92	29.06	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	11/14/02		17.92	29.06	<2.0	<2.0	<2.0	<2.0	<200	700	ND	No free product or sheen
	02/20/03		16.72	30.26	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	05/15/03		16.51	30.47	<0.5	<0.5	<0.5	<0.5	<50	73	ND	No free product or sheen
	07/31/03		17.41	29.57	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	10/28/03		18.30	28.68	<0.5	<0.5	<0.5	<0.5	<50	65	ND	No free product or sheen
	02/28/04		15.82	31.16	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	04/16/04		16.42	30.56	<0.5	<0.5	<0.5	<0.5	<50	6.2	ND	No free product or sheen
	07/16/04		16.94	30.04	NS	NS	NS	NS	NS	NS	NA	Not Sampled

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-5	02/18/92	43.79	17.37	26.42	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	05/14/92		17.29	26.50	<0.5	<0.05	<0.5	<0.5	<50	NA	NA	
	08/27/92		22.18	21.61	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	11/19/92		20.68	23.11	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	02/03/93		15.91	27.88	3.0	2.7	8.0	9.9	55	NA	NA	
	06/23/93		16.24	27.55	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/22/93		17.93	25.86	0.66	1.1	<0.5	0.6	<50	NA	NA	No free product or sheen
	01/24/94		17.82	25.97	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	04/07/94		16.91	26.88	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	06/07/94		17.10	26.69	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/28/94		18.73	25.06	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	12/14/94		17.53	26.26	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	03/15/95		14.96	28.83	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	06/13/95		15.30	28.49	<0.5	0.52	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/28/95		16.74	27.05	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	12/28/95		15.10	28.69	<0.5	<0.5	<0.5	<0.5	120	<5.0	NA	No free product or sheen
	03/12/96		13.67	30.12	<0.5	<0.5	<0.5	<0.5	<50	9	NA	No free product or sheen
	06/11/96		14.88	28.91	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	10/02/96		16.42	27.37	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	01/28/97		12.83	30.96	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	05/20/97		15.33	28.46	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	08/18/97		16.69	27.10	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NA	Not measured
	11/05/97		17.37	26.42	<0.5	<0.5	<0.5	<0.5	<50	<5.0/<0.5 <sup>b</sup>	NA	No free product or sheen
	03/31/98		12.40	31.39	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	05/26/98		13.62	30.17	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	08/19/98		15.19	28.60	<0.5	<0.5	<0.5	<0.5	<50	7.1	NA	No free product or sheen
	11/17/98		15.89	27.90	<0.5	<0.5	<0.5	<0.5	<50	6.3	NA	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
Former Beacon Station No. 3721  
44 Lewelling Boulevard  
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-5	02/18/99	43.79	14.23	29.56	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
(Cont.)	06/24/99		15.29	28.50	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/30/99		16.07	27.72	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/09/99		16.61	27.18	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/22/00		13.81	29.98	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	06/12/00		15.08	28.71	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/15/00		16.71	27.08	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/26/01		15.05	28.74	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/21/01		15.91	27.88	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	09/05/01		16.99	26.80	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/07/01		17.51	26.28	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/11/02	46.12	14.31	31.81	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	06/03/02		14.96	31.16	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	08/06/02		15.65	30.47	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/14/02		15.69	30.43	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/20/03		14.19	31.93	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/15/03		15.44	30.68	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	07/31/03		16.48	29.64	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	10/28/03		16.92	29.20	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/28/04		14.64	31.48	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	04/16/04		15.28	30.84	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	07/16/04		15.88	30.24	NS	NS	NS	NS	NS	NS	NA	Not Sampled



TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
Former Beacon Station No. 3721  
44 Lewelling Boulevard  
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-6	02/18/92	42.47	15.87	26.60	4.8	<0.5	<0.5	<0.5	370	NA	NA	
	05/14/92		16.04	26.43	<0.5	<0.5	<0.5	<0.5	120	NA	NA	
	08/27/92		18.17	24.30	1.2	<0.5	<0.5	<0.5	<50	NA	NA	
	11/19/92		19.30	23.17	1.3	<0.5	1	1.1	66	NA	NA	
	02/03/93		14.60	27.87	1.9	2.6	23	12	100	NA	NA	
	06/23/93		15.00	27.47	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/22/93		16.66	25.81	2.2	3.8	0.53	2.7	81	NA	NA	No free product or sheen
	01/24/94		16.52	25.95	<0.5	<0.5	<0.5	<0.5	98	NA	NA	
	04/07/94		15.70	26.77	0.71	<0.5	<0.5	<0.5	150	NA	NA	No free product or sheen
	06/07/94		15.88	26.59	<0.5	<0.5	<0.5	<0.5	180	NA	NA	No free product or sheen
	09/28/94		17.51	24.96	<0.5	<0.5	<0.5	<0.5	100	NA	NA	No free product or sheen
	12/14/94		16.27	26.20	<0.5	<0.5	<0.5	<0.5	140	NA	NA	No free product or sheen
	03/15/95		13.52	28.95	<0.5	<0.5	<0.5	<0.5	110	NA	NA	No free product or sheen
	06/13/95		13.96	28.51	<0.5	0.87	<0.5	<0.5	150 <sup>a</sup>	NA	NA	No free product or sheen
	09/28/95		15.61	26.86	0.78	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	12/28/95		15.54	26.93	<0.5	<0.5	<0.5	6.3	410	70	NA	No free product or sheen
	01/30/96		NM	NC	1.0	<0.5	<0.5	11	81	46	NA	Not measured
	03/12/96		11.88	30.59	<0.5	<0.5	<0.5	<0.5	<50	7	NA	No free product or sheen
	06/11/96		13.52	28.95	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	10/02/96		15.10	27.37	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	01/28/97		11.18	31.29	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	05/20/97		14.00	28.47	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	08/18/97		15.54	26.93	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	11/05/97		16.25	26.22	<0.5	<0.5	<0.5	<0.5	<50	<5.0/2.8 <sup>b</sup>	NA	No free product or sheen
	03/31/98		10.60	31.87	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	05/26/98		12.01	30.46	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	08/19/98		13.60	28.87	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-6	11/17/98	42.47	14.53	27.94	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
(Cont.)	02/18/99		12.39	30.08	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	06/24/99		13.89	28.58	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/30/99		14.75	27.72	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/09/99		15.18	27.29	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/22/00		12.30	30.17	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	06/12/00		13.69	28.78	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/15/00		15.73	26.74	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/26/01		14.42	28.05	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/21/01		15.23	27.24	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	09/05/01		16.31	26.16	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/07/01		17.01	25.46	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/11/02	44.79	15.72	29.07	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	06/03/02		16.39	28.40	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	08/06/02		18.90	25.89	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/14/02		18.93	25.86	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/20/03		15.64	29.15	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/15/03		14.07	30.72	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	07/31/03		15.21	29.58	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	10/28/03		15.73	29.06	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/28/04		13.12	31.67	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	04/16/04		13.92	30.87	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	07/16/04		14.53	30.26	NS	NS	NS	NS	NS	NS	NA	Not Sampled

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
Former Beacon Station No. 3721  
44 Lewelling Boulevard  
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-7	02/18/92	41.54	15.51	26.03	16	<0.5	10	16	670	NA	NA	
	05/14/92		15.41	26.13	44	<0.5	38	88	1,500	NA	NA	
	08/27/92		17.45	24.09	400	5.8	290	1,400	23,000	NA	NA	
	11/19/92		18.54	23.00	29	<0.5	10	53	330	NA	NA	
	02/03/93		14.10	27.44	200	<0.5	110	480	2,000	NA	NA	
	06/23/93		14.33	27.21	20	<0.5	16	16	280	NA	NA	No free product or sheen
	09/22/93		15.92	25.62	71	2.2	33	210	860	NA	NA	No free product or sheen
	01/24/94		16.07	25.47	61	<1.3	10	160	900	NA	NA	
	04/07/94		15.10	26.44	53	<0.5	7.1	49	630	NA	NA	
	06/07/94		15.16	26.38	55	<0.5	14	24	730	NA	NA	No free product or sheen
	09/28/94		16.82	24.72	21	<0.5	2.3	3.1	300	NA	NA	No free product or sheen
	12/14/94		15.75	25.79	19	<0.5	3.3	32	430	NA	NA	No free product or sheen
	03/15/95		14.00	27.54	0.88	<0.5	<0.5	<0.5	70	NA	NA	No free product or sheen
	06/13/95		13.44	28.10	7.3	0.79	7.6	8.9	190	NA	NA	No free product or sheen
	09/28/95		14.84	26.70	1.5	<0.5	1.2	0.84	60	NA	NA	No free product or sheen
	12/28/95		14.55	26.99	<0.5	<0.5	0.91	0.69	60	10	NA	No free product or sheen
	03/12/96		11.88	29.66	<0.5	<0.5	<0.5	<0.5	<50	11	NA	No free product or sheen
	06/11/96		13.52	28.58	<0.5	<0.5	<0.5	<0.5	79	16	NA	No free product or sheen
	10/02/96		14.50	27.04	<0.5	<0.5	<0.5	<0.5	<50	26	NA	No free product or sheen
	01/28/97		11.08	30.46	<0.5	<0.5	<0.5	<0.5	<50	13	NA	No free product or sheen
	05/20/97		13.46	28.08	<0.5	0.85	<0.5	<0.5	78	40	NA	No free product or sheen
	08/18/97		14.95	26.59	<0.5	<0.5	<0.5	<0.5	<50	18	NA	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	11/05/97		15.43	26.11	<0.5	<0.5	<0.5	<0.5	<50	8.9/8.0 <sup>b</sup>	NA	No free product or sheen
	03/31/98		10.25	31.29	<0.5	<0.5	<0.5	1.3	<5.0	6	NA	No free product or sheen
	05/26/98		11.45	30.09	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	<0.5	<0.5	<0.5	<0.5	<50	10	NA	No free product or sheen
	08/19/98		13.08	28.46	<0.5	<0.5	<0.5	<0.5	<50	27	NA	No free product or sheen
	11/17/98		13.93	27.61	<0.5	<0.5	<0.5	<0.5	<50	30	NA	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
Former Beacon Station No. 3721  
44 Lewelling Boulevard  
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-7	02/18/99	41.54	12.16	29.38	<0.5	<0.5	<0.5	<0.5	51	22	NA	No free product or sheen
(Cont.)	06/24/99		13.35	28.19	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/30/99		14.23	27.31	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/09/99		14.60	26.94	<0.5	<0.5	<0.5	<0.5	<50	16	NA	No free product or sheen
	03/22/00		11.91	29.63	<0.5	<0.5	<0.5	<0.5	<50	18	NA	No free product or sheen
	06/12/00		13.28	28.26	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/15/00		15.12	26.42	<0.5	<0.5	<0.5	<0.5	<50	17	NA	No free product or sheen
	02/26/01		13.46	28.08	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	05/21/01		14.31	27.23	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	09/05/01		15.42	26.12	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	11/07/01		16.18	25.36	<0.5	<0.5	<0.5	<0.5	<50	5.4	NA	Not Sampled
	02/11/02	43.85	13.76	30.09	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	06/03/02		14.33	29.52	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	08/06/02		15.04	28.81	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/14/02		15.05	28.80	<0.5	<0.5	<0.5	<0.5	<0.5	0.64	ND	No free product or sheen
	02/20/03		14.01	29.84	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/15/03		13.81	30.04	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	07/31/03		14.99	28.86	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	10/28/03		15.48	28.37	<0.5	<0.5	<0.5	<0.5	<0.5	<50	ND	No free product or sheen
	02/28/04		12.87	30.98	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	04/16/04		13.54	30.31	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	07/16/04		13.96	29.89	NS	NS	NS	NS	NS	NS	NA	Not Sampled

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-8	02/18/92	42.26	16.57	25.69	<0.5	<0.5	9.5	<0.5	1,200	NA	NA	
	05/14/92		16.24	26.02	<0.5	<0.5	<0.5	<0.5	130	NA	NA	
	08/27/92		18.28	23.98	<0.5	<0.5	<0.5	<0.5	140	NA	NA	
	11/19/92		19.32	22.94	<0.5	<0.5	2.0	<0.5	320	NA	NA	
	02/03/93		14.87	27.39	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	06/23/93		15.18	27.08	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/22/93		18.79	23.47	<0.5	0.67	<0.5	<0.5	<50	NA	NA	No free product or sheen
	01/24/94		17.06	25.20	<0.5	<0.5	<0.5	<0.5	290	NA	NA	
	04/07/94		15.95	26.31	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	06/07/94		15.10	27.16	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/28/94		17.63	24.63	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	12/14/94		16.66	25.60	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	03/15/95		14.30	27.96	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	06/13/95		14.37	27.89	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/28/95		15.62	26.64	NS	NS	NS	NS	NS	NA	NA	No free product or sheen
	12/28/95		15.62	26.64	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	03/12/96		12.75	29.51	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	06/11/96		13.94	28.32	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	10/02/96		15.41	26.85	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	01/28/97		12.30	29.96	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	05/20/97		14.42	27.84	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	08/18/97		16.16	26.10	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	11/05/97		16.25	26.01	<0.5	<0.5	<0.5	<0.5	<50	<5.0/<0.5 <sup>b</sup>	NA	No free product or sheen
	03/31/98		11.49	30.77	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	05/26/98		12.60	29.66	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	08/19/98		14.15	28.11	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free Product or sheen
	11/17/98		14.98	27.28	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-8	02/18/99	42.26	13.41	28.85	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
(Cont.)	06/24/99		14.35	27.91	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/30/99		15.16	27.10	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/09/99		15.61	26.65	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/22/00		13.17	29.09	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	06/12/00		14.19	28.07	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/15/00		16.04	26.22	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/26/01		12.99	29.27	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/21/01		13.86	28.40	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	09/05/01		14.91	27.35	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/07/01		15.62	26.64	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/11/02	44.85	13.55	31.30	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	06/03/02		13.96	30.89	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	08/06/02		15.82	29.03	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/14/02		15.86	28.99	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/20/03		14.70	30.15	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/15/03		14.50	30.35	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	07/31/03		15.73	29.12	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	10/28/03		16.14	28.71	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/28/04		14.02	30.83	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	04/16/04		14.52	30.33	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	07/16/04		14.88	29.97	NS	NS	NS	NS	NS	NS	NA	Not Sampled

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
Former Beacon Station No. 3721  
44 Lewelling Boulevard  
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-9	02/18/92	44.94	18.87	26.07	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	05/14/92		18.55	26.39	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	08/27/92		20.80	24.14	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	11/19/92		21.90	23.04	<0.5	<0.5	<0.5	1.3	<50	NA	NA	
	02/03/93		17.25	27.69	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	06/23/93		17.61	27.33	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/22/93		19.18	25.76	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	01/24/94		19.17	25.77	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	
	04/07/94		18.23	26.71	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	06/07/94		18.40	26.54	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/28/94		20.01	24.93	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	12/14/94		18.88	26.06	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	03/15/95		16.24	28.70	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	06/13/95		16.75	28.19	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	09/28/95		18.04	26.90	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	12/28/95		17.87	27.07	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	03/12/96		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	06/11/96		16.26	28.68	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	10/02/96		17.74	27.20	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	01/28/97		14.51	30.43	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	05/20/97		16.73	28.21	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	08/18/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	11/05/97		18.61	26.33	<0.5	<0.5	<0.5	<0.5	<50	<5.0/<0.5 <sup>b</sup>	NA	No free product or sheen
	03/31/98		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	05/26/98		15.28	29.66	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	08/19/98		16.55	28.39	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	11/17/98		17.32	27.62	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
Former Beacon Station No. 3721  
44 Lewelling Boulevard  
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-9	02/18/99	44.94	15.74	29.20	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
(Cont.)	06/24/99		16.73	28.21	NS	NS	NS	NS	NS	NS	NS	Not sampled
	08/30/99		17.48	27.46	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/09/99		17.98	26.96	NS	NS	NS	NS	NS	NS	NS	Not sampled
	03/22/00		15.46	29.48	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	06/12/00		16.70	28.24	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/15/00		18.65	26.29	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/26/01		14.80	30.14	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/21/01		15.68	29.26	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	09/05/01		16.70	28.24	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/07/01		17.23	27.71	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/11/02	47.26	17.16	30.10	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	06/03/02		17.66	29.60	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No free product or sheen
	08/06/02		18.26	29.00	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No free product or sheen
	11/14/02		18.33	28.93	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/20/03		16.85	30.41	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/15/03		16.63	30.63	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	07/31/03		17.58	29.68	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	10/28/03		17.93	29.33	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	02/28/04		16.22	31.04	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	04/16/04		16.82	30.44	NS	NS	NS	NS	NS	NS	NA	Not Sampled
	07/16/04		17.33	29.93	NS	NS	NS	NS	NS	NS	NA	Not Sampled



TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-10	02/18/92	42.34	16.63	25.71	110	57	440	53	18,000	NA	NA	
	05/14/92		15.25	27.09	NS	NS	NS	NS	NS	NS	NS	
	05/15/92		NM	NC	24	9.8	97	<0.5	8,500	NA	NA	
	08/27/92		18.35	23.99	NS	NS	NS	NS	NS	NS	NS	
	08/29/92		NM	NC	20	2.8	40	3.5	9,600	NA	NA	
	11/19/92		19.43	22.91	36	21	330	31	5,700	NA	NA	
	02/03/93		15.01	27.33	15	4.6	36	9.6	2,200	NA	NA	
	06/23/93		15.30	27.04	21	24	540	45	8,100	NA	NA	No free product or sheen
	09/22/93		16.90	25.44	22	17	350	16	6,200	NA	NA	No free product or sheen
	01/24/94		NM	NC	NS	NS	NS	NS	NS	NA	NA	Not measured
	04/07/94		15.97	26.37	6.4	2.9	150	4.7	4,000	NA	NA	No free product or sheen
	06/07/94		16.04	26.30	5.6	<2.5	150	5.7	6,700	NA	NA	No free product or sheen
	09/28/94		17.69	24.65	2.2	2.6	110	44	5,700	NA	NA	No free product or sheen
	12/14/94		16.65	25.69	<1.3	<1.3	77	27	3,500	NA	NA	No free product or sheen
	03/15/95		14.08	28.26	<5.0	6.7	150	23	7,200	NA	NA	No free product or sheen
	06/13/95		14.49	27.85	9	48	610	130	8,400	NA	NA	No free product or sheen
	09/28/95		15.81	26.53	22	17	360	24	6,300	NA	NA	No free product or sheen
	12/28/95		15.46	26.88	4.4	5.6	340	11	5,000	37	NA	No free product or sheen
	03/12/96		12.62	29.72	1.4	5.9	41	73	4,500	120	NA	No free product or sheen
	06/11/96		14.40	27.94	<5.0	25	350	81	7,500	<25	NA	No free product or sheen
	10/02/96		15.47	26.87	18	<2.5	<2.5	<2.5	2,600	<25	NA	No free product or sheen
	01/28/97		15.69	26.65	5.9	<2.5	29	19	2,800	<25	NA	No free product or sheen
	05/20/97		14.48	27.86	<20	34	290	74	6,000	<100	NA	No free product or sheen
	08/18/97		15.91	26.43	<20	7.7	94	15	5,900	<50	NA	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	11/05/97		16.32	26.02	1.1	0.86	47	1.6	5,400	<50/2.3 <sup>b</sup>	NA	No free product or sheen
	03/31/98		12.25	30.09	56	180	1,400	3,700	20,000	250	NA	No free product or sheen
	05/26/98		12.97	29.37	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	76	200	1,600	3,900	16,000	190	NA	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-10	08/19/98	42.34	14.27	28.07	95	160	1,300	1,700	14,000	<100	NA	No free product or sheen
(Cont.)	11/17/98		15.08	27.26	82	64	590	150	7500	290	NA	No free product or sheen
	02/18/99		13.61	28.73	41	16	270	79	4,700	<100	NA	No free product or sheen
	06/24/99		14.50	27.84	27	74	280	160	9,400	300	NA	No free product or sheen
	08/30/99		15.26	27.08	15	33	160	33	8,500	290	NA	No free product or sheen
	11/09/99		15.72	26.62	3.9	11	60	14	7,600	120	NA	No free product or sheen
	03/22/00		13.40	28.94	3.5	33	360	320	5,800	160	NA	No free product or sheen
	06/12/00		14.42	27.92	4.3	47	370	210	7,200	270	NA	No free product or sheen
	11/15/00		16.75	25.59	0.54	2.2	3.8	7.3	4,400	420	NA	No free product or sheen
	02/26/01		14.73	27.61	<1.0	2.5	24	13	5,000	860	NA	No free product or sheen
	05/21/01		15.25	27.09	<0.5	3.2	4.1	12	3,500	530	NA	No free product or sheen
	09/05/01		16.35	25.99	<2.0	<2.0	<2.0	4.1	3,400	770	NA	No free product or sheen
	11/07/01		17.05	25.29	<0.5	0.64	0.75	2.7	3,600	790	NA	No free product or sheen
	02/11/02	44.65	14.94	29.71	<2.0	2.2	61	26	4,100	750	NA	No free product or sheen
	06/03/02		15.41	29.24	<1.0	7.0	67	37	4,100	320	26°	No free product or sheen
	08/06/02		15.98	28.67	<1.0	5.4	18	18	4,500	310	18°	No free product or sheen
	11/14/02		16.10	28.55	<1.0	<1.0	2.2	6.4	5,200	280	13°	No free product or sheen
	02/20/03		14.90	29.75	<1.5	9.5	280	69	6,300	220	ND	No free product or sheen
	05/15/03		14.69	29.96	1.2	14	280	78	5,700	130	11°	No free product or sheen
	07/31/03		15.63	29.02	<0.5	4.5	20	17	4,700	110	7.5°	No free product or sheen
	10/28/03		16.39	28.26	<0.5	0.54	0.80	2.9	1,900	88	5.9°	No free product or sheen
	02/28/04		14.01	30.64	<1.0	<1.0	17	7.9	3,500	44	ND	No free product or sheen
	04/16/04		14.69	29.96	<1.5	3.0	150	34	6,000	53	ND	No free product or sheen
	07/16/04		15.09	29.56	<1.0	3.5	110	29	6,300	40	ND	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
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 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-11	02/18/92	45.00	17.00	28.00	<0.5	<0.5	<0.5	<0.5	2,400	NA	NA	
	05/14/92		19.02	25.98	<0.5	1.9	1.3	0.7	1,600	NA	NA	
	08/27/92		21.13	23.87	15	2	0.6	1.2	2,100	NA	NA	
	11/19/92		17.91	27.09	<0.5	<0.5	<0.5	<0.5	490	NA	NA	
	02/03/92		17.91	27.09	<0.5	<0.5	0.55	<0.5	500	NA	NA	
	06/23/93		18.14	26.86	<0.5	<0.5	<0.5	<0.5	350	NA	NA	No free product or sheen
	09/22/93		19.63	25.37	<0.5	0.65	<0.5	0.71	200	NA	NA	No free product or sheen
	01/24/94		19.79	25.21	<0.5	<0.5	<0.5	<0.5	450	NA	NA	
	04/07/94		18.78	26.22	<0.5	<0.5	<0.5	<0.5	500	NA	NA	No free product or sheen
	06/07/94		18.88	26.12	<0.5	<0.5	<0.5	0.64	560	NA	NA	No free product or sheen
	09/28/94		20.45	24.55	<0.5	<0.5	<0.5	<0.5	600	NA	NA	No free product or sheen
	12/14/94		19.45	25.55	<0.5	<0.5	<0.5	<0.5	340	NA	NA	No free product or sheen
	03/15/95		17.32	27.68	<0.5	<0.5	<0.5	<0.5	340	NA	NA	No free product or sheen
	06/13/95		17.43	27.57	<0.5	<0.5	<0.5	<0.5	210 <sup>a</sup>	NA	NA	No free product or sheen
	09/28/95		18.67	26.33	4.1	0.5	<0.5	<0.5	93	NA	NA	No free product or sheen
	12/28/95		18.31	26.69	<0.5	<0.5	<0.5	<0.5	380 <sup>a</sup>	<5.0	NA	No free product or sheen
	03/12/96		15.89	29.11	<0.5	<0.5	<0.5	<0.5	110	<5.0	NA	No free product or sheen
	06/11/96		16.98	28.02	<0.5	<0.5	<0.5	<0.5	400 <sup>a</sup>	<5.0	NA	No free product or sheen
	10/02/96		18.20	26.80	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	01/28/97		12.53	32.47	<0.5	<0.5	<0.5	<0.5	110 <sup>a</sup>	<5.0	NA	No free product or sheen
	05/20/97		17.36	27.64	<0.5	<0.5	<0.5	<0.5	330	<5.0	NA	No free product or sheen
	08/18/97		18.84	26.16	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	11/05/97		NM	NC	NS	NS	NS	NS	NS	NS	NS	Not measured
	03/31/98		15.39	29.61	<0.5	2.8	12	16	460	<5.0	NA	No free product or sheen
	05/26/98		16.25	28.75	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	14	24	88	75	1,100	24	NA	No free product or sheen
	08/19/98		17.30	27.70	16	9.6	69	17	1,200	6	NA	No free product or sheen
	11/17/98		18.05	26.95	15	4.4	14	<0.5	580	21	NA	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

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44 Lewelling Boulevard  
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-11	02/18/99	45.00	16.87	28.13	8.0	<0.5	1.4	<0.5	390	44	NA	No free product or sheen
(Cont.)	06/24/99		17.50	27.50	4.6	<0.5	0.66	<0.5	610	59	NA	No free product or sheen
	08/30/99		18.19	26.81	NS	NS	NS	NS	NS	NS	NS	Not sampled
	11/09/99		18.64	26.36	0.87	<0.5	<0.5	<0.5	250	66	NA	No free product or sheen
	03/22/00		16.52	28.48	<0.5	<0.5	<0.5	<0.5	330	100	NA	No free product or sheen
	06/12/00		17.44	27.56	<0.5	<0.5	<0.5	<0.5	52	49	NA	No free product or sheen
	11/15/00		19.07	25.93	<0.5	<0.5	<0.5	<0.5	<50	1.8	NA	
	02/26/01		17.80	27.20	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/21/01		18.23	26.77	<0.5	<0.5	<0.5	<0.5	<50	30	NA	No free product or sheen
	09/05/01		19.21	25.79	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/07/01		19.80	25.20	<0.5	<0.5	<0.5	<0.5	360	330	NA	No free product or sheen
	02/11/02	47.36	17.40	29.96	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	06/03/02		18.30	29.06	<0.5	<0.5	<0.5	<0.5	120	220	13°	No free product or sheen
	08/06/02		18.80	28.56	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	11/14/02		18.94	28.42	<1.0	<1.0	<1.0	<1.0	240	380	ND	No free product or sheen
	02/20/03		17.46	29.90	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	05/15/03		17.64	29.72	<0.5	<0.5	<0.5	<0.5	160	170	ND	No free product or sheen
	07/31/03		18.81	28.55	NS	NS	NS	NS	NS	NS	NS	Not Sampled
	10/28/03		19.20	28.16	<0.5	<0.5	<0.5	<0.5	<50	35	ND	No free product or sheen
	02/28/04		17.33	30.03	<0.5	<0.5	<0.5	<0.5	360	140	ND	No free product or sheen
	04/16/04		17.67	29.69	<0.5	<0.5	<0.5	<0.5	440	110	ND	No free product or sheen
	07/16/04		18.01	29.35	<0.5	<0.5	<0.5	<0.5	<50	10	ND	No free product or sheen

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## GROUND WATER MONITORING DATA

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Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
RW-1	05/14/92	43.17	16.88	26.29	NS	NS	NS	NS	NS	NS	NS	
	05/15/92		NM	NC	270	62	29	140	790	NA	NA	
	08/27/92		19.05	24.12	1,300	200	68	810	24,000	NA	NA	
	11/19/92		21.11	22.07	NS	NS	NS	NS	NS	NS	NS	
	02/03/92		15.48	27.69	71	35	22	110	620	NA	NA	
	06/23/93		28.25	14.92	30	33	9.8	35	220	NA	NA	No free product or sheen
	09/22/93		17.83	25.34	800	400	170	910	4,100	NA	NA	No free product or sheen
	01/24/94		24.00	19.17	33	6	6.9	23	190	NA	NA	
	04/07/94		16.05	27.12	110	57	32	260	1,500	NA	NA	No free product or sheen
	06/07/94		16.00	27.17	130	51	45	180	1,700	NA	NA	No free product or sheen
	09/28/94		18.35	24.82	54	9.2	12	29	350	NA	NA	No free product or sheen
	12/14/94		19.50	23.67	6.8	2.1	1.2	3.4	79	NA	NA	No free product or sheen
	03/15/95		17.00	26.17	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	04/10/95		NM	NC	54	11	11	69	410	NA	NA	Not measured
	06/13/95		14.95	28.22	1,600	780	340	1,400	8,200	NA	NA	No free product or sheen
	09/28/95		27.63	15.54	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	12/28/95		14.54	28.63	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	No free product or sheen
	03/12/96		11.02	32.15	<0.5	<0.5	<0.5	<0.5	86	110	NA	No free product or sheen
	06/11/96		14.52	28.65	38	11	4.7	50	230	68	NA	No free product or sheen
	10/02/96		15.53	27.64	68	29	14	75	360	47	NA	No free product or sheen
	01/28/97		12.59	30.58	0.77	<0.5	<0.5	<0.5	<50	9	NA	No free product or sheen
	05/20/97		14.85	28.32	<0.5	<0.5	<0.5	<0.5	<50	32	NA	No free product or sheen
	08/18/97		16.19	26.98	25	<0.5	<0.5	3.6	220	170	NA	No free product or sheen
	09/29/97		NM	NC	240	2.8	51	55	900	230	NA	Not measured
	11/05/97		16.95	26.22	340	3.2	59	78	1,300	240/220 <sup>b</sup>	NA	No free product or sheen
	03/31/98		11.85	31.32	450	130	200	940	4,100	4,100	NA	No free product or sheen
	05/26/98		13.13	30.04	NS	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	830	210	170	720	17,000	14,000	NA	No free product or sheen
	08/19/98		14.70	28.47	20	<2.5	7.1	15	540	2,100	NA	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
 Former Beacon Station No. 3721  
 44 Lewelling Boulevard  
 San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
RW-1	11/17/98	43.17	15.54	27.63	7.8	<2.5	5.6	<2.5	630	730	NA	No free product or sheen
(cont)	02/18/99		13.75	29.42	6.7	1.6	3.2	15	180	100	NA	No free product or sheen
	06/24/99		14.96	28.21	<0.5	<0.5	<0.5	<0.5	<50	42	NA	No free product or sheen
	08/30/99		15.75	27.42	<0.5	<0.5	<0.5	<0.5	<50	79	NA	No free product or sheen
	11/09/99		17.45	25.72	<0.5	<0.5	<0.5	<0.5	<50	78	NA	No free product or sheen
	03/22/00		13.51	29.66	1.2	<0.5	<0.5	<0.5	<50	17	NA	No free product or sheen
	06/12/00		13.65	29.52	<0.5	<0.5	<0.5	1.0	<50	40	NA	No free product or sheen
	11/15/00		29.45	13.72	<0.5	<0.5	<0.5	<0.5	<50	290	NA	No free product or sheen
	02/26/01		28.40	14.77	<0.5	<0.5	<0.5	<0.5	<50	360	NA	No free product or sheen
	05/21/01		43.17	27.81	4.1	1.6	1.8	23	100	170	NA	No free product or sheen
	09/05/01		26.90	16.27	33	<0.5	<0.5	<0.5	73	310	NA	No free product or sheen
	11/07/01		28.41	14.76	<0.5	<0.5	<0.5	<0.5	<50	240	NA	No free product or sheen
	02/11/02	45.47	27.61	17.86	<0.5	<0.5	<0.5	<0.5	<50	21	NA	No free product or sheen
	06/03/02		26.90	18.57	<0.5	<0.5	<0.5	<0.5	<50	160	7.7°	No free product or sheen

TABLE 1

## GROUND WATER MONITORING DATA

Tesoro Station No. 67107  
Former Beacon Station No. 3721  
44 Lewelling Boulevard  
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
RW-1 (cont)	08/06/02		25.56	19.91	<0.5	<0.5	<0.5	<0.5	<50	190	6.0 <sup>e</sup>	No free product or sheen
	11/14/02		24.83	20.64	<0.5	<0.5	<0.5	<0.5	<50	170	ND	No free product or sheen
	02/20/03		23.56	21.91	<0.5	<0.5	<0.5	<0.5	<50	120	ND	No free product or sheen
	05/15/03		22.80	22.67	<0.5	<0.5	<0.5	<0.5	<50	110	ND	No free product or sheen
	07/31/03		21.71	23.76	<0.5	<0.5	<0.5	<0.5	<50	99	ND	No free product or sheen
	10/28/03		22.07	23.40	<0.5	<0.5	<0.5	<0.5	<50	88	ND	No free product or sheen
	02/28/04		19.32	26.15	1.3	<0.5	<0.5	<0.5	<50	52	ND	No free product or sheen
	04/16/04		23.95	21.52	<0.5	<0.5	<0.5	<0.5	<50	57	ND	No free product or sheen
	07/16/04		30.04	15.43	0.72	<0.5	<0.5	<0.5	<50	100	7.2 <sup>e</sup>	No free product or sheen
DW-15800*	01/14/03	NM	NM	NC	<0.5	<0.5	<0.5	<0.5	<50	0.81	ND	No free product or sheen
	03/20/03	NM	NM	NC	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No free product or sheen
DW-15808*	01/14/03	NM	NM	NC	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No free product or sheen
	03/20/03	NM	NM	NC	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No free product or sheen

\* Product is not typical gasoline.

<sup>b</sup> MTBE by EPA Method 8020/EPA Method 8260.

<sup>c</sup> Constituents by EPA Method 8260.

<sup>d</sup> Oxygenates = diisopropyl ether, ethyl-t-butyl ether, tert-amyl methyl ether, tert-butanol, methanol, and ethanol.

<sup>e</sup> Tert-Butanol

<sup>f</sup> Tert-amyl methyl ether

\* = Domestic Water Wells (used as irrigation wells) Located at 15800 & 15808 Via Cordoba, San Lorenzo, CA.

Top of Riser Elevations = Elevations surveyed relative to mean sea level.

TPH = Total petroleum hydrocarbons.

MTBE = Methyl tertiary butyl ether.

µg/L = Micrograms per liter.

NS = Not sampled.

NM = Not measured.

NC = Not calculated.

NA = Not analyzed.

Note: Aegis Environmental, Inc. collected data prior to June 23, 1993.

Table 2  
 Ground Water System Performance Data Sheet  
 Tesoro Station No. 67107  
 (Former Beacon Station No. 3721)

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter ( µg/L)						ppm		pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
10/4/2000	190,140	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/17/2000	190,140	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/10/2000	190,440	300	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/29/2000	200,600	10,460	Influent	14	<0.5	<0.5	1.1	96	NA	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
12/7/2000	201,010	410	Influent	14	<0.5	<0.5	<0.5	56	NA	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
12/20/2000	218,900	17,890	NS	NS	NS	NS	NS	NS	NS	NS	NS	
01/04/01	218,970	70	NS	NS	NS	NS	NS	NS	NS	NS	NS	
01/19/01	110	100	Influent	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
02/15/01	12,730	12,620	NS	NS	NS	NS	NS	NS	NS	NS	NS	
02/23/01	21,900	9,170	Influent	<0.5	<0.5	<0.5	<0.5	<50	240	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	1.8	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	7.3	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	1.4	<10	5.0	7.63
03/01/01	22,260	360	Influent	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<10	<5.0	7.49
03/23/01	50,000	27,740	NS	NS	NS	NS	NS	NS	NS	NS	NS	



Table 2  
Ground Water System Performance Data Sheet  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter ( µg/L)						ppm		pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
04/05/01	118,900	68,900	Influent	<0.5	<0.5	<0.5	<0.5	<50	320	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	65	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	9.2	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	<5.0	7.79
04/18/01	140,190	21,290	NS	NS	NS	NS	NS	NS	NS	NS	NS	
05/15/01	159,810	19,620	NS	NS	NS	NS	NS	NS	NS	NS	NS	
05/21/01	172,540	12,730	Influent	3.8	1.4	1.3	16	67	NA	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<10	<5.0	7.90
06/05/01	185,810	13,270	NS	NS	NS	NS	NS	NS	NS	NS	NS	
06/21/01	185,830	20	Influent	2.9	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	<10	<5.0	7.44
07/05/01	186,000	170	Influent	3.6	<0.5	<0.5	<0.5	<50	290	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	100	8.3	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	47	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	12	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	<5.0	6.99
07/16/01	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	
08/17/01	186,040	40	NS	NS	NS	NS	NS	NS	NS	NS	NS	
08/24/01	207,160	21,120	Influent	8.5	<0.5	<0.5	1.4	<50	370	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	100	62	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	90	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	25	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	<5.0	7.79
09/06/01	233,430	26,270	Influent	66	0.93	<0.5	6.3	150	650	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	6.0	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	67	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	24	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	<5.0	7.62
09/29/01	239,410	5,980	NS	NS	NS	NS	NS	NS	NS	NS	NS	
10/08/01	273,690	34,280	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Table 2  
Ground Water System Performance Data Sheet  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter ( µg/L)						ppm		pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
10/19/01	273,800	110	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/02/01	352,260	78,460	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/23/01	394,260	42,000	Influent	22	<2.0	<2.0	<2.0	<200	630	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	31	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	<5.0	9.07/7.82**
12/13/01	400,690	6,430	Influent	5.7	<1.0	<1.0	<1.0	<100	370	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	31	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	NA	7.66**
12/27/2001	437,150	36,460	NS	NS	NS	NS	NS	NS	NS	NS	NS	
01/17/02	437,340	190	Influent	<0.5	<0.5	<0.5	<0.5	<50	240	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	25	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	<5.0	7.54**
01/29/02	461,150	23,810	NS	NS	NS	NS	NS	NS	NS	NS	NS	
02/13/02	477,300	16,150	NS	NS	NS	NS	NS	NS	NS	NS	NS	
02/18/02	507,110	29,810	Influent	0.6	<0.5	<0.5	2.1	<50	180	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	7.8	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	<5.0	7.68**
03/08/02	509,940	2,830	NS	NS	NS	NS	NS	NS	NS	NS	NS	
03/20/02	561,510	51,570	Influent	1.2	<0.5	<0.5	2.1	<50	210	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	9.5	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	18	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	11	52	7.45**
04/12/02	568,950	7,440	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Table 2  
Ground Water System Performance Data Sheet  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter ( µg/L)					ppm			pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
04/18/02	570,490	1,540	Influent	<0.5	<0.5	<0.5	<0.5	<50	140	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Mid-1	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<10	26	7.8**
05/13/02	703,960	133,470	Influent	<0.5	<0.5	<0.5	<0.5	<50	220	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	98	NA	NA	NA
			Mid-1	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	13	<1.0	7.45**
05/24/02	762,880	58,920	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
06/12/02	861,220	98,340	Influent	<0.5	<0.5	<0.5	<0.5	<50	220	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	89	NA	NA	NA
			Mid-1	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	23	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	<5.0	5	7.24**
06/20/02	902,920	41,700	NS	NS	NS	NS	NS	NS	NS	NS	NS	
07/05/02	976,890	73,970	NS	NS	NS	NS	NS	NS	NS	NS	NS	
07/23/02	988,120	11,230	Influent	85	<0.5	<0.5	7.3	220	520	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Mid-1	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	10	3.6	7.46**
08/01/02	1,040,520	52,400	NS	NS	NS	NS	NS	NS	NS	NS	NS	
08/21/02	1,132,920	92,400	Influent	<0.5	<0.5	<0.5	<0.5	<50	190	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	29	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	4.8	5.1	<1.0	7.32**
09/14/02	1,245,710	112,790	NS	NS	NS	NS	NS	NS	NS	NS	NS	
09/23/02	1,268,520	22,810	Influent	6.5	0.53	1.2	2.5	<50	230	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	7.7	<1.0	7.47**
10/07/02	1,332,060	63,540	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Table 2  
Ground Water System Performance Data Sheet  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter ( µg/L)						ppm		pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
10/22/02	1,392,920	60,860	Influent	<0.5	<0.5	<0.5	<0.5	<50	150	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	69	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<5.0	13.0	<1.0	7.48**
11/11/02	1,411,070	18,150	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/24/02	1,474,210	63,140	Influent	<0.5	<0.5	<0.5	<0.5	<50	170	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	130	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	3.2	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.95	10.0	<1.0	7.52**
12/11/02	1,548,430	74,220	NS	NS	NS	NS	NS	NS	NS	NS	NS	
12/20/02	1,597,130	48,700	Influent	<0.5	<0.5	<0.5	<0.5	<50	150	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	120	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	1.5	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	0.57	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.71	<5.0	<1.0	7.58**
01/03/03	1,671,090	73,960	NS	NS	NS	NS	NS	NS	NS	NS	NS	
01/29/03	1,807,900	136,810	Influent	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	NA	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	NA	10.0	<1.0	7.47**
02/17/03	1,904,010	96,110	NS	NS	NS	NS	NS	NS	NS	NS	NS	
02/20/03	1,919,460	15,450	Influent	<0.5	<0.5	<0.5	<0.5	<50	130	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	100	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	7.2	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	7.7	<1.0	7.71
03/04/03	1,978,940	59,480	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Table 2  
Ground Water System Performance Data Sheet  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter ( µg/L)						ppm		pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
03/20/03	2,012,550	33,610	Influent	5.7	0.72	1.5	5.1	65	260	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	2.3	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.52	<5.0	<1.0	7.42
04/01/03	2,072,600	60,050	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
04/22/03	2,176,680	104,080	Influent	<0.5	<0.5	<0.5	<0.5	<50	120	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	69	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	70	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	2.1	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.72	16.0	<1.0	7.49
05/14/03	2,286,720	110,040	NS	NS	NS	NS	NS	NS	NS	NS	NS	
05/29/03	2,344,540	57,820	Influent	8.0	1.1	2.6	6.7	79	140	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	4.3	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	5.7	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	0.77	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	0.66	5.1	<1.0	7.62
06/10/03	2,345,770	1,230	NS	NS	NS	NS	NS	NS	NS	NS	NS	
06/24/03	2,346,180	410	Influent	3.4	<0.5	0.78	1.2	<50	250	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	2.2	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NS	NS	NS
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	7.7	<1.0	7.42
07/02/03	2,384,820	38,640	NS	NS	NS	NS	NS	NS	NS	NS	NS	
07/21/03	2,467,900	83,080	Influent	<0.5	<0.5	<0.5	<0.5	<50	110	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	83	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NS	NS	NS
			Mid-2	NA	NA	NA	NA	NA	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	18	<1.0	7.84
08/06/03	2,537,130	69,230	NS	NS	NS	NS	NS	NS	NS	NS	NS	
08/20/03	2,596,230	59,100	Influent	<0.5	<0.5	<0.5	<0.5	<50	82	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	63	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	11	NS	NS	NS
			Mid-2	NA	NA	NA	NA	NA	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NR	NR	7.24
09/07/03	2,603,720	7,490	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Table 2  
Ground Water System Performance Data Sheet  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)						ppm		pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
09/21/03	2,604,320	600	Influent	1.0	<0.5	<0.5	<0.5	<50	240	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	3.0	NS	NS	NS
			Mid-2	NA	NA	NA	NA	NA	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<1.0	7.61
10/10/03	2,677,470	73,150	NS	NS	NS	NS	NS	NS	NS	NS	NS	
10/30/03	2,756,950	79,480	Influent	<0.5	<0.5	<0.5	<0.5	<50	89	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	65	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	12	NA	NA	NA
			Mid-2	NA	NA	NA	NA	NA	NA	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	2.6	<5.0	<1.0	6.88
11/16/03	2,821,800	64,850	NS	NS	NS	NS	NS	NS	NS	NS	NS	
11/26/03	2,853,250	31,450	Influent	<0.5	<0.5	<0.5	<0.5	<50	87	NA	NA	NA
			Dat-Eff	0.96	<0.5	<0.5	<0.5	<50	60	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<1.0	7.12
12/18/03	2,900,120	46,870	Influent	<0.5	<0.5	<0.5	<0.5	<50	3.2	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	12	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5.0	<1.0	7.28
12/29/03	2,956,060	55,940	NS	NS	NS	NS	NS	NS	NS	NS	NS	
01/10/04	2,959,680	3,620	NS	NS	NS	NS	NS	NS	NS	NS	NS	
01/28/04	2,959,680	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	
02/13/04	2,959,680	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	
02/28/04	2,960,330	650	Influent	1.4	<0.5	<0.5	<0.5	<50	110	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	2.6	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	<1.0	7.48
03/15/04	3,051,940	91,610	Influent	<0.5	<0.5	<0.5	<0.5	<50	73	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	61	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	0.64	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	7.7	<1.0	7.64

Table 2  
Ground Water System Performance Data Sheet  
Tesoro Station No. 67107  
(Former Beacon Station No. 3721)

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter (µg/L)						ppm		pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
03/30/04	3,134,660	82,720	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
04/13/04	3,207,100	72,440	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
04/19/04	3,224,586	17,486	Influent	1.4	<0.5	<0.5	0.89	<50	89	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	5.6	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	1.9	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	5.1	<1.0	7.82
05/14/04	3,340,018	115,432	NS	NS	NS	NS	NS	NS	NS	NS	NS	
05/26/04	3,392,984	52,966	Influent	<0.5	<0.5	<0.5	<0.5	<50	65	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	52	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-2	NS	NS	NS	NS	NS	NS	NS	NS	NS
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	10	4.2	7.66
06/22/04	3,456,780	63,796	Influent	4.7	<0.5	0.81	1.8	<50	99	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-2	NR	NR	NR	NR	NR	NR	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	20.0	<1.0	7.56
06/30/04	3,473,610	16,830	NS	NS	NS	NS	NS	NS	NS	NS	NS	
07/06/04	3,491,096	17,486	NS	NS	NS	NS	NS	NS	NS	NS	NS	
07/28/04	3,497,468	6,372	Influent	0.78	<0.5	<0.5	<0.5	<50	120	NA	NA	NA
			Dat-Eff	1.0	<0.5	<0.5	<0.5	<50	22	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	10.0	8.5	7.66
08/17/04	3,582,556	85,088	Influent	<0.5	<0.5	<0.5	<0.5	<50	66	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	45	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	120	1.4	7.54
08/30/04	3,634,100	51,544	NS	NS	NS	NS	NS	NS	NS	NS	NS	
09/11/04	3,677,440	43,340	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Table 2  
 Ground Water System Performance Data Sheet  
 Tesoro Station No. 67107  
 (Former Beacon Station No. 3721)

Site Visit (Date)	Totalizer	Change in Totalizer	Sample ID	Concentrations in Micrograms per liter ( µg/L)						ppm		pH
				Benzene	Toluene	Ethyl - Benzene	Total Xylenes	TPHg <sup>a</sup>	MTBE <sup>b</sup>	COD <sup>c</sup>	TSS <sup>d</sup>	
09/18/04	3,708,380	30,940	Influent	<0.5	<0.5	<0.5	0.68	<50	56	NA	NA	NA
			Dat-Eff	<0.5	<0.5	<0.5	<0.5	<50	35	NA	NA	NA
			Mid-1	<0.5	<0.5	<0.5	<0.5	<50	0.56	NA	NA	NA
			Mid-2	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	NA	NA
			Effluent	<0.5	<0.5	<0.5	<0.5	<50	<0.5	10	18	7.68

\* = changed out totalizer

\*\* = Field Measurements

ppm = parts per million

Notes:

a) Total Petroleum Hydrocarbon as gasoline

b) Methyl-t-butyl ether

c) C.O.D. = Chemical oxygen demand.

d) T.S.S. = Total suspended solids.

NS = Not Sampled

NA = Not Analyzed

NR = Not Reported - results not released by laboratory at the time of this submittal



**TABLE 3**  
**SVE SYSTEM ANALYTICAL RESULTS**

Tesoro Station No. 67107  
(Former Beacon Station No. 3721)  
44 Levellling Boulevard  
San Lorenzo, California

Sample I.D.	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	4/7/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid Air	4/7/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	4/7/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	5/10/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid Air	5/10/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	5/10/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	6/8/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid Air	6/8/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	6/8/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	11/29/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid Air	11/29/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	11/29/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/7/2000	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	12/7/2000	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	12/7/2000	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	1/19/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	1/19/2001	<0.05	<0.05	<0.05	0.053	<5.0	<0.10
Effluent	1/19/2001	<0.05	<0.05	<0.05	0.071	<5.0	<0.10
Influent	2/23/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	2/23/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	2/23/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	3/1/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	3/1/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	3/1/2001	<0.05	<0.05	<0.05	0.055	<5.0	<0.10
Influent	4/5/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	4/5/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	4/5/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	5/21/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	5/21/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	5/21/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10

**TABLE 3**  
**SVE SYSTEM ANALYTICAL RESULTS**  
 Tesoro Station No. 67107  
 (Former Beacon Station No. 3721)  
 44 Lewelling Boulevard  
 San Lorenzo, California

Sample I.D.	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	6/21/2001	<0.05	<0.05	<0.05	<0.05	5.3	<0.10
Mid Air	6/21/2001	<0.05	<0.05	<0.05	<0.05	8.4	<0.10
Effluent	6/21/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	7/5/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	7/5/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	7/5/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	8/24/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	8/24/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	8/24/2001	<0.05	<0.05	<0.05	0.066	<5.0	<0.10
Influent	9/6/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	9/6/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	9/6/2001	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	11/23/2001	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid Air	11/23/2001	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	11/23/2001	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/13/2001	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid Air	12/13/2001	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/13/2001	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	1/17/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Mid Air	1/17/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Effluent	1/17/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Influent	3/20/2002	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid Air	3/20/2002	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	3/20/2002	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	4/18/2002	<0.05	<0.05	<0.05	<0.05	<5.0	0.17
Mid Air	4/18/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	4/18/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	5/13/2002	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid Air	5/13/2002	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	5/13/2002	<0.05	<0.05	<0.05	<0.05	<5.0	NA

**TABLE 3**  
**SVE SYSTEM ANALYTICAL RESULTS**

Tesoro Station No. 67107  
(Former Beacon Station No. 3721)  
44 Leveiling Boulevard  
San Lorenzo, California

Sample I.D.	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	6/12/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	6/12/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	6/12/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	8/21/2002	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid Air	8/21/2002	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	8/21/2002	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	9/23/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	9/23/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	9/23/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	10/21/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	10/21/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	10/21/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	11/24/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	11/24/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	11/24/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	12/20/2002	<0.05	<0.05	<0.05	0.05	<5.0	<0.10
Mid Air	12/20/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	12/20/2002	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	1/29/2003	<0.05	<0.05	<0.05	0.05	<5.0	NA
Mid Air	1/29/2003	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	1/29/2003	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	2/20/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	2/20/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	2/20/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	3/20/2003	<0.05	<0.05	<0.05	0.05	<5.0	<0.10
Mid Air	3/20/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	3/20/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	4/22/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	4/22/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	4/22/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10

**TABLE 3**  
**SVE SYSTEM ANALYTICAL RESULTS**  
 Tesoro Station No. 67107  
 (Former Beacon Station No. 3721)  
 44 Lewelling Boulevard  
 San Lorenzo, California

Sample I.D.	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	5/29/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	5/29/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	5/29/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	6/24/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	6/24/2003	<0.05	<0.05	<0.05	<0.05	<5.0	0.12
Effluent	6/24/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	7/21/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	7/21/2003	<0.05	<0.05	<0.05	<0.05	<5.0	0.13
Effluent	7/21/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	8/20/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Mid Air	8/20/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Effluent	8/20/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	9/21/2003	<0.05	<0.05	<0.05	<0.05	5.6	0.067
Mid Air	9/21/2003	<0.05	<0.05	<0.05	<0.05	<5.0	0.12
Effluent	9/21/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.05
Influent	10/30/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	10/30/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	10/30/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	11/26/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Mid Air	11/26/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	11/26/2003	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10

MTBE = methyl-t-butyl ether  
 TPH = Total Petroleum Hydrocarbons  
 ppmv = parts per million by volume  
 NA = not analyzed

TABLE 4

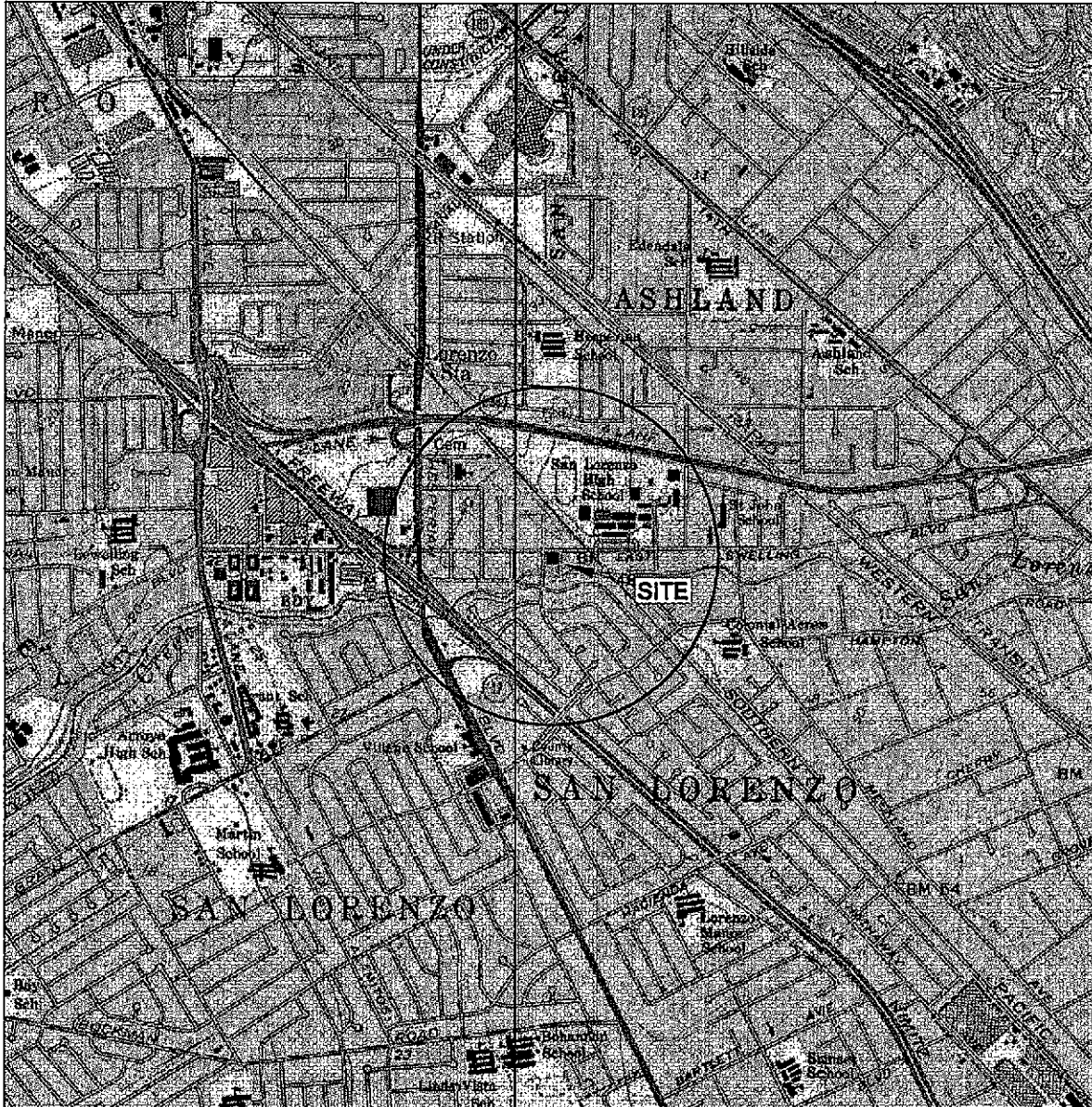
## SVE SYSTEM MONITORING

Tesoro Station No. 67107  
 (Former Beacon Station No. 3721)  
 44 Lewelling Boulevard  
 San Lorenzo, California

Date	Inlet Flow Rate (ft <sup>3</sup> /min)	Stack Flow Rate (ft <sup>3</sup> /min)	SVE		SVE		SVE		SVE		Cumulative Volume of Processed Air (cubic feet)	Cumulative		Total Hours Operated	Change in Hours of Operation
			TPH Influent (ppmv)	SVE TPH Effluent (ppmv)	Benzene Influent (ppmv)	Benzene Effluent (ppmv)	SVE TPH Extraction Rate (lbs/day)	SVE TPH Mass Emission (lbs/day)	Benzene Extraction Rate (lbs/day)	Benzene Emission Rate (lbs/day)		TPH Extraction (lbs)	TPH Extraction (lbs)		
04/07/00	105	105	<5.0	<5.0	<0.05	<0.05	<0.18	<0.18	<0.002	<0.002	5.53 E+05	0.7	NA	15,346	88
05/10/00	124	124	<5.0	<5.0	<0.05	<0.05	<0.21	<0.21	<0.002	<0.002	5.88 E+06	6.5	7.2	16,138	792
06/08/00	124	124	<5.0	<5.0	<0.05	<0.05	<0.21	<0.21	<0.002	<0.002	5.17 E+06	3.1	10.3	16,834	696
11/29/00	140	140	<5.0	<5.0	<0.05	<0.05	<0.24	<0.24	<0.002	<0.002	2.34 E+07	14.0	24.3	19,619	2,785
12/07/00	140	140	<5.0	<5.0	<0.05	<0.05	<0.24	<0.24	<0.002	<0.002	1.61 E+06	1.0	25.2	19,811	192
01/19/01	170	170	<5.0	<5.0	<0.05	<0.05	<0.29	<0.29	<0.002	<0.002	1.05 E+07	6.3	31.5	20,841	1,030
02/23/01	130	130	<5.0	<5.0	<0.05	<0.05	<0.22	<0.22	<0.002	<0.002	6.52 E+06	3.9	35.4	21,677	836
03/01/01	209	209	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	1.83 E+06	1.1	36.5	21,823	146
04/05/01	205	205	<5.0	<5.0	<0.05	<0.05	<0.35	<0.35	<0.003	<0.003	1.03 E+07	6.2	42.7	22,661	838
05/21/01	220	220	<5.0	<5.0	<0.05	<0.05	<0.38	<0.38	<0.003	<0.003	6.17 E+06	3.7	46.4	23,128	468
06/21/01	240	240	5.3	<5.0	<0.05	<0.05	<0.44	<0.41	<0.003	<0.003	1.06 E+07	6.7	53.1	23,864	735
07/05/01	220	220	<5.0	<5.0	<0.05	<0.05	<0.38	<0.38	<0.003	<0.003	4.38 E+06	2.6	55.7	24,196	332
08/24/01	220	220	<5.0	<5.0	<0.05	<0.05	<0.38	<0.38	<0.003	<0.003	2.16 E+06	1.3	57.0	24,359	163
09/29/01	240	240	<5.0	<5.0	<0.05	<0.05	<0.41	<0.41	<0.003	<0.003	4.42 E+06	2.6	59.7	24,666	307
11/23/01	230	230	<5.0	<5.0	<0.05	<0.05	<0.40	<0.40	<0.003	<0.003	2.58 E+07	15.5	75.1	26,537	1,871
12/13/01	210	210	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	6.05 E+06	3.6	78.8	27,017	480
01/17/02	230	230	<5.0	<5.0	<0.05	<0.05	<0.40	<0.40	<0.003	<0.003	1.17 E+07	7.0	85.7	27,861	844
03/20/02	230	230	<5.0	<5.0	<0.05	<0.05	<0.40	<0.40	<0.003	<0.003	2.05 E+07	12.3	98.0	29,347	1,486
04/18/02	230	230	<5.0	<5.0	<0.05	<0.05	<0.40	<0.40	<0.003	<0.003	9.49 E+06	5.7	103.7	30,035	688
05/13/02	230	230	<5.0	<5.0	<0.05	<0.05	<0.40	<0.40	<0.003	<0.003	8.29 E+06	5.0	108.7	30,636	601
06/12/02	210	210	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	9.39 E+06	5.6	114.3	31,381	745
08/21/02	230	230	<5.0	<5.0	<0.05	<0.05	<0.40	<0.40	<0.003	<0.003	2.30 E+07	13.7	128.0	33,044	1,664
09/23/02	228	228	<5.0	<5.0	<0.05	<0.05	<0.39	<0.39	<0.003	<0.003	1.08 E+07	6.5	134.5	33,832	787
10/21/02	220	220	<5.0	<5.0	<0.05	<0.05	<0.38	<0.38	<0.003	<0.003	8.92 E+06	5.3	139.8	34,508	676
11/24/02	218	218	<5.0	<5.0	<0.05	<0.05	<0.38	<0.38	<0.003	<0.003	1.06 E+07	6.4	146.2	35,320	812
12/20/02	218	218	<5.0	<5.0	<0.05	<0.05	<0.38	<0.38	<0.003	<0.003	8.24 E+06	4.9	151.1	35,950	630
01/29/03	200	200	<5.0	<5.0	<0.05	<0.05	<0.34	<0.34	<0.003	<0.003	1.15 E+07	6.9	158.0	36,906	956
02/20/03	215	215	<5.0	<5.0	<0.05	<0.05	<0.37	<0.37	<0.003	<0.003	6.85 E+06	4.1	162.1	37,437	531
03/20/03	210	210	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	8.40 E+06	5.0	167.1	38,104	667
04/22/03	210	210	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	9.98 E+06	6.0	173.1	38,896	792
05/29/03	208	208	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	6.52 E+06	3.9	177.0	39,419	523
06/24/03	210	210	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	7.85 E+06	4.7	181.7	40,042	623
07/21/03	210	210	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	8.18 E+06	4.9	186.6	40,691	649
08/20/03	210	210	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	9.16 E+06	5.5	192.1	41,418	727
09/21/03	210	210	5.6	<5.0	<0.05	<0.05	<0.41	<0.36	<0.003	<0.003	9.64 E+06	6.5	198.6	42,183	765
10/30/03	210	210	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	1.26 E+07	7.5	206.1	43,179	996
11/26/03	210	210	<5.0	<5.0	<0.05	<0.05	<0.36	<0.36	<0.003	<0.003	7.32 E+06	4.4	210.5	43,760	581

TPH = Total petroleum hydrocarbons.

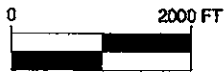
ppmv = Parts per million by volume.



T3 S.

R2 W.

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



SCALE 1:24,000

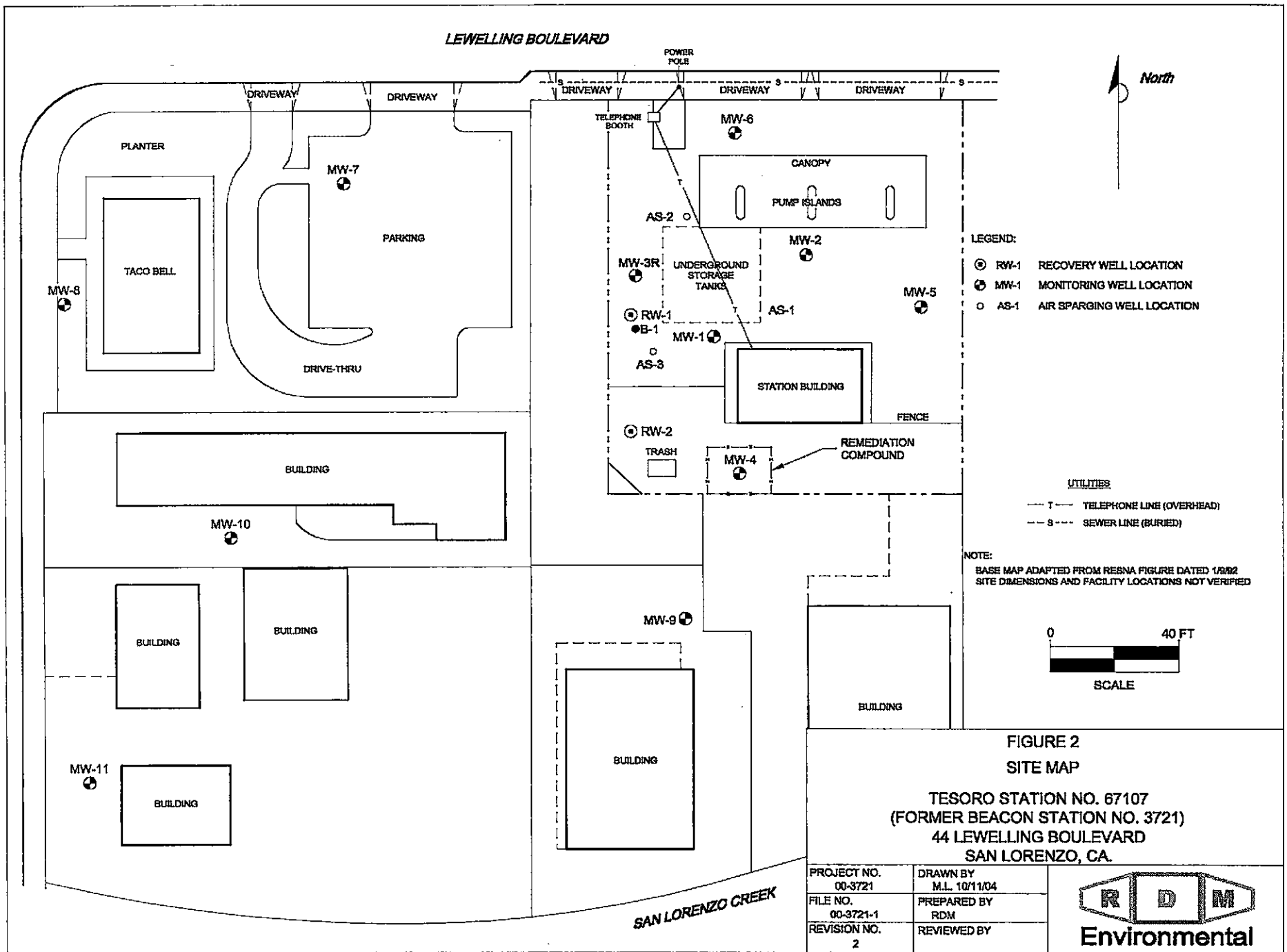


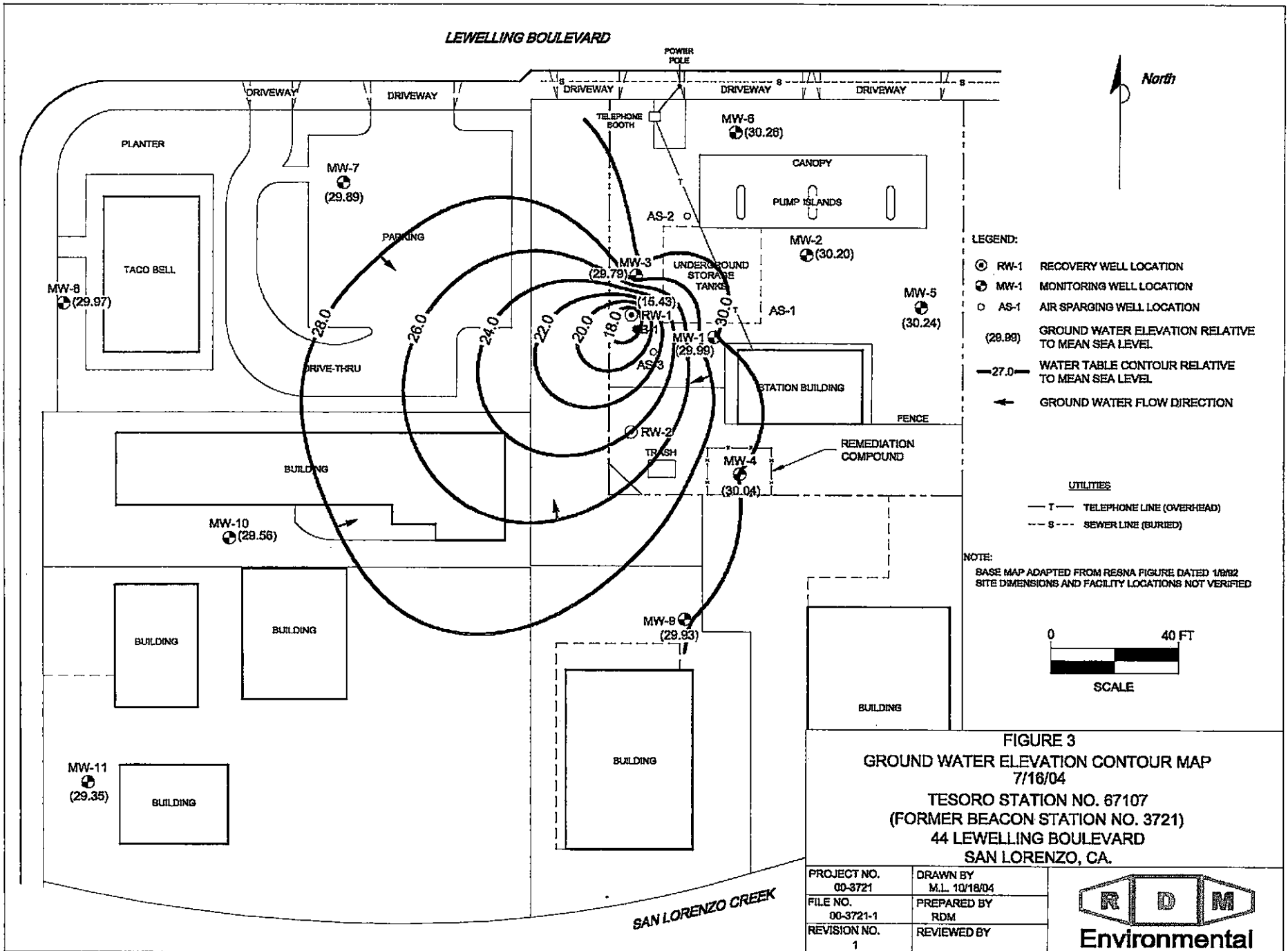
QUADRANGLE LOCATION

**FIGURE 1**  
**SITE LOCATION MAP**  
 TESORO STATION NO. 67107  
 (FORMER BEACON STATION NO. 3721)  
 44 LEWELLING BOULEVARD  
 SAN LORENZO, CA.

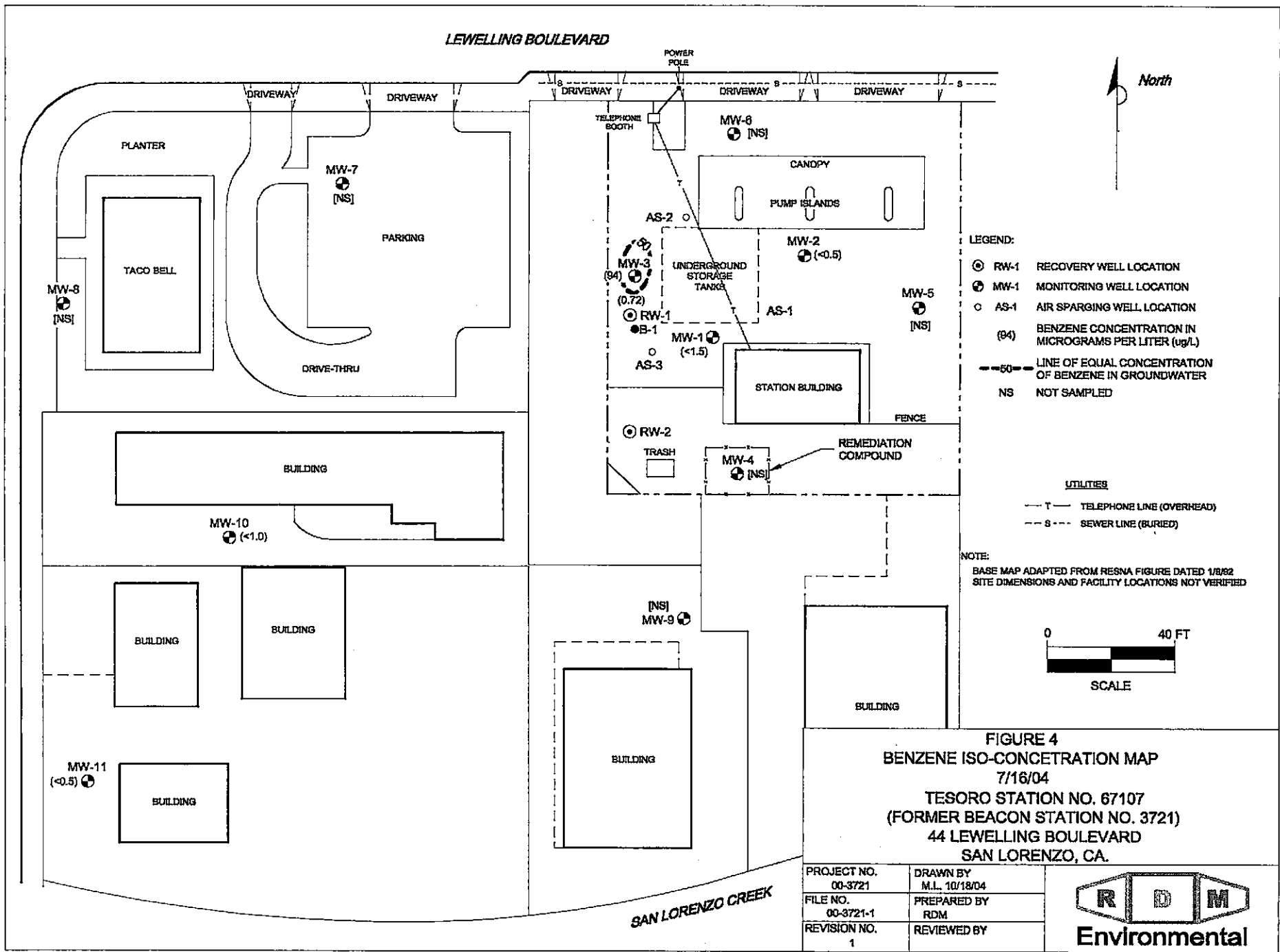
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FILE NO. 00-3721-1A	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY







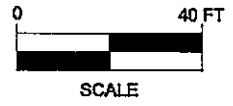




- LEGEND:**
- ⊙ RW-1 RECOVERY WELL LOCATION
  - ⊕ MW-1 MONITORING WELL LOCATION
  - AS-1 AIR SPARGING WELL LOCATION
  - (94) BENZENE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
  - - - 50 - - - LINE OF EQUAL CONCENTRATION OF BENZENE IN GROUNDWATER
  - NS NOT SAMPLED

- UTILITIES**
- - - T - - - TELEPHONE LINE (OVERHEAD)
  - - - S - - - SEWER LINE (BURIED)

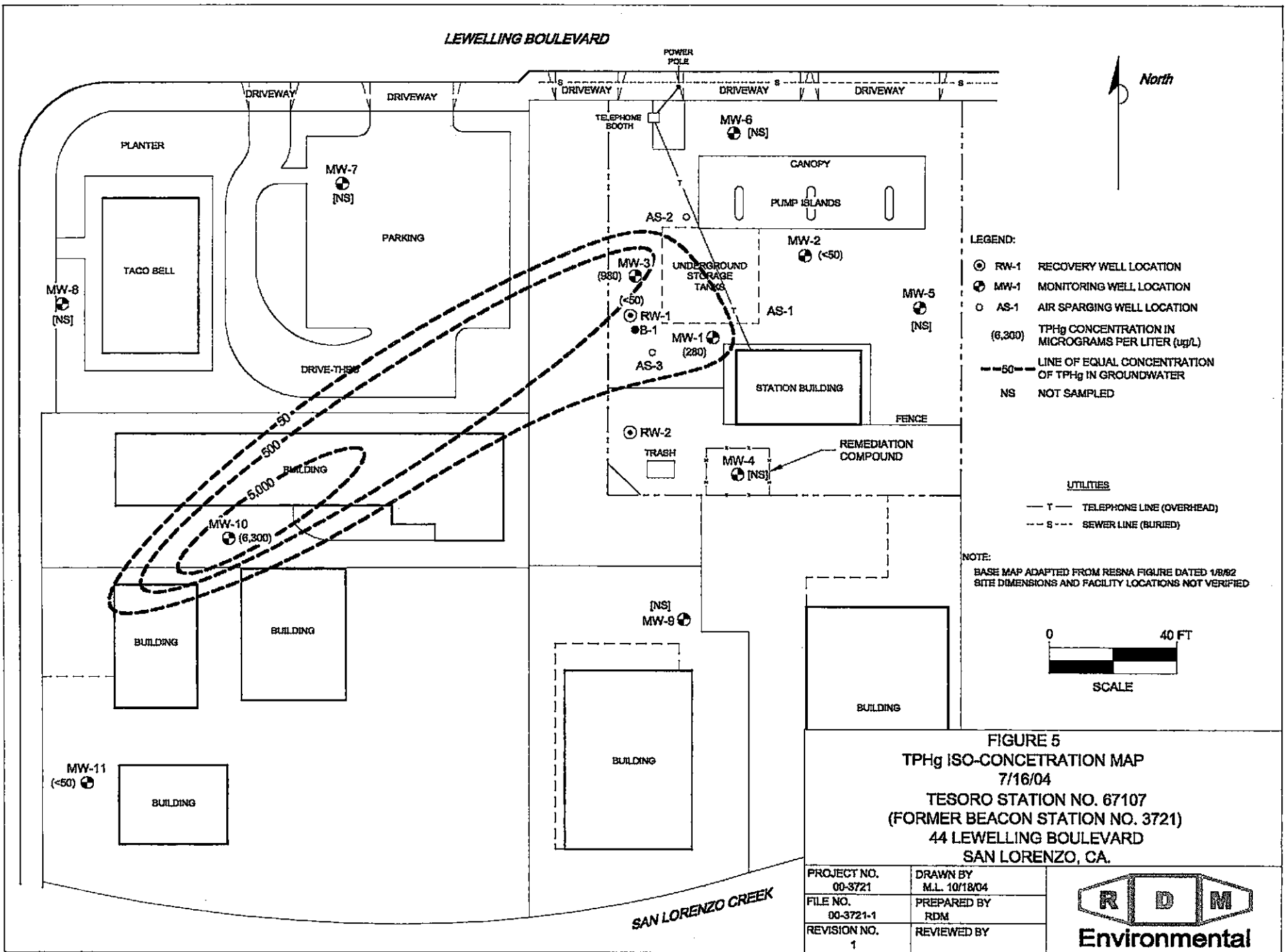
**NOTE:**  
 BASE MAP ADAPTED FROM RESNA, FIGURE DATED 1/8/92  
 SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED

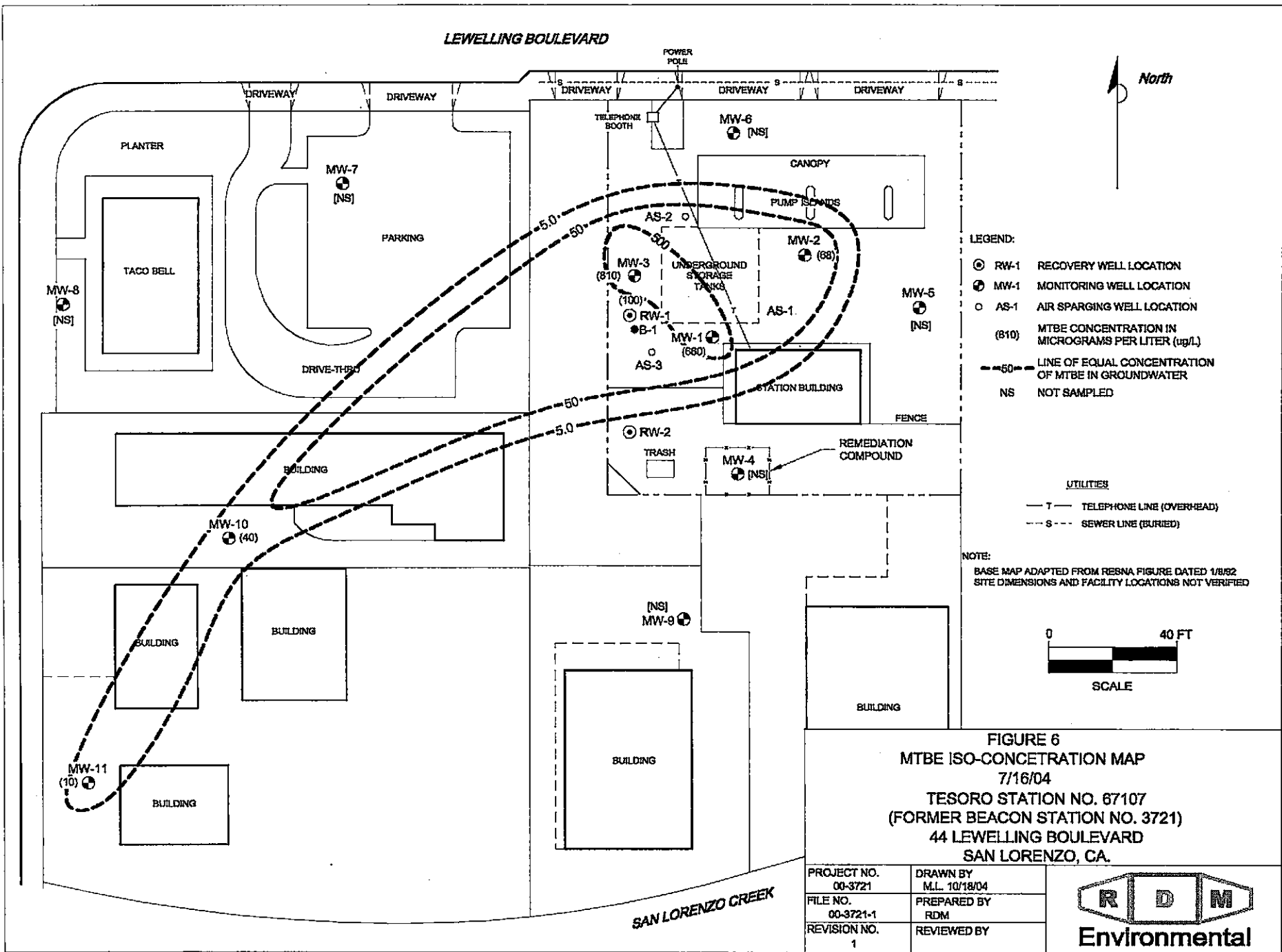


**FIGURE 4**  
**BENZENE ISO-CONCENTRATION MAP**  
 7/16/04  
 TESORO STATION NO. 67107  
 (FORMER BEACON STATION NO. 3721)  
 44 LEWELLING BOULEVARD  
 SAN LORENZO, CA.

PROJECT NO. 00-3721	DRAWN BY M.L. 10/18/04
FILE NO. 00-3721-1	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY



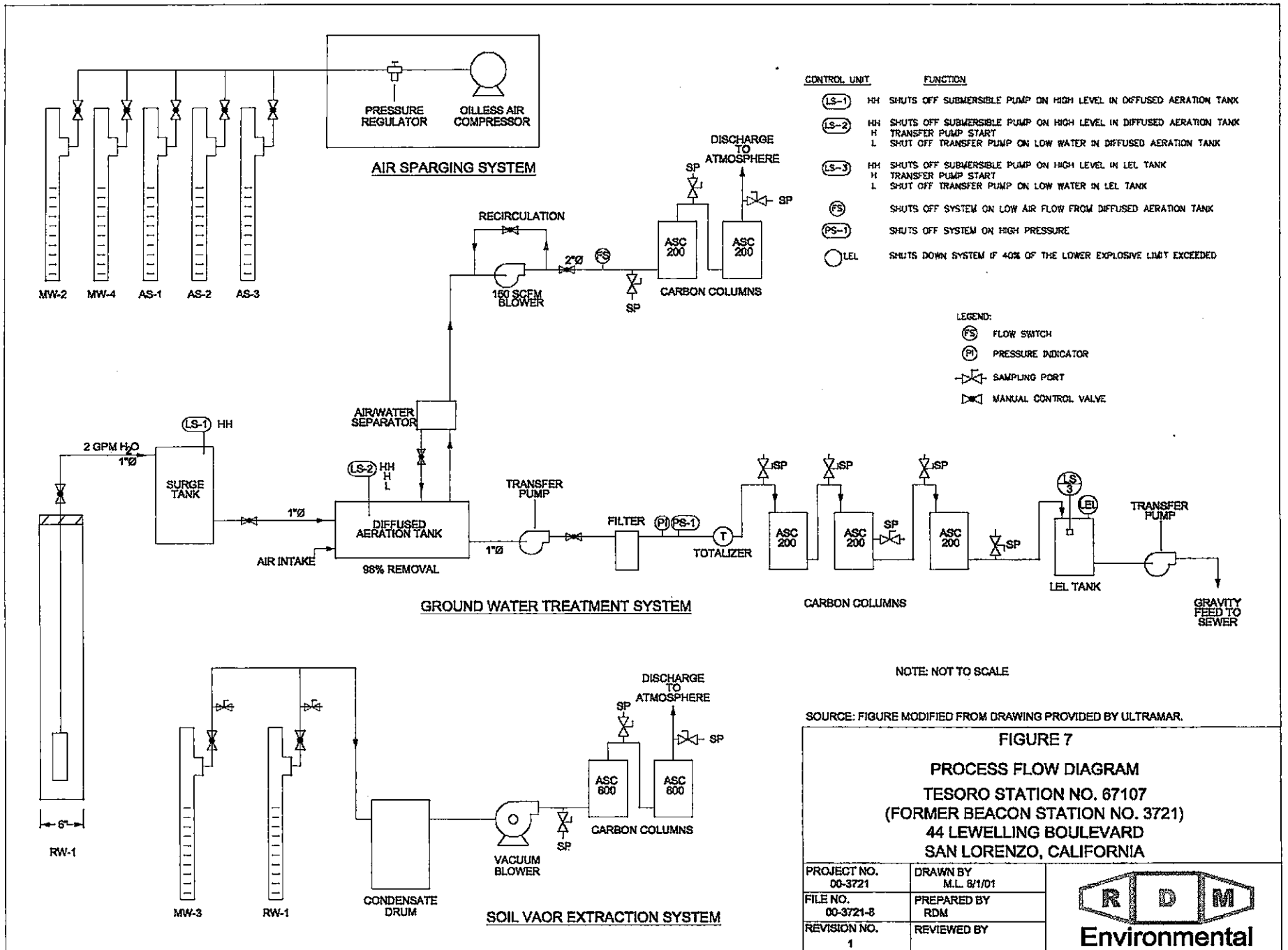




**FIGURE 6**  
**MTBE ISO-CONCENTRATION MAP**  
 7/16/04  
**TESORO STATION NO. 67107**  
**(FORMER BEACON STATION NO. 3721)**  
**44 LEWELLING BOULEVARD**  
**SAN LORENZO, CA.**

PROJECT NO. 00-3721	DRAWN BY M.L. 10/18/04
FILE NO. 00-3721-1	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY





CONTROL UNIT	FUNCTION
(LS-1)	HH SHUTS OFF SUBMERSIBLE PUMP ON HIGH LEVEL IN DIFFUSED AERATION TANK H TRANSFER PUMP START L SHUT OFF TRANSFER PUMP ON LOW WATER IN DIFFUSED AERATION TANK
(LS-2)	HH SHUTS OFF SUBMERSIBLE PUMP ON HIGH LEVEL IN DIFFUSED AERATION TANK H TRANSFER PUMP START L SHUT OFF TRANSFER PUMP ON LOW WATER IN DIFFUSED AERATION TANK
(LS-3)	HH SHUTS OFF SUBMERSIBLE PUMP ON HIGH LEVEL IN LEL TANK H TRANSFER PUMP START L SHUT OFF TRANSFER PUMP ON LOW WATER IN LEL TANK
(FS)	SHUTS OFF SYSTEM ON LOW AIR FLOW FROM DIFFUSED AERATION TANK
(PS-1)	SHUTS OFF SYSTEM ON HIGH PRESSURE
(LEL)	SHUTS DOWN SYSTEM IF 40% OF THE LOWER EXPLOSIVE LIMIT EXCEEDED

LEGEND:

(FS)	FLOW SWITCH
(PI)	PRESSURE INDICATOR
∇	SAMPLING PORT
⋈	MANUAL CONTROL VALVE

NOTE: NOT TO SCALE  
 SOURCE: FIGURE MODIFIED FROM DRAWING PROVIDED BY ULTRAMAR.

**FIGURE 7**  
**PROCESS FLOW DIAGRAM**  
**TESORO STATION NO. 67107**  
**(FORMER BEACON STATION NO. 3721)**  
**44 LEWELLING BOULEVARD**  
**SAN LORENZO, CALIFORNIA**

PROJECT NO. 00-3721	DRAWN BY M.L. 8/1/01
FILE NO. 00-3721-8	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY



## HISTORICAL BACKGROUND INFORMATION

Tesoro Station No. 67107  
(Former Beacon Station No. 3721)  
44 Lewelling Boulevard  
San Lorenzo, California

- April 1987 - Three underground gasoline storage tanks were excavated and removed. Samples collected from beneath the former tanks indicated that hydrocarbons were present in the soil.
- May 1987 - Conoco installed three monitoring wells (MW-1 through MW-3). Hydrocarbons were detected in soil and ground-water samples collected from the wells. The site has been on a monitoring program since May 1987.
- December 1988 - Four additional wells (MW-4 through MW-7) were installed. Dissolved-phase hydrocarbons were detected in the new wells.
- September 1989 - Two additional wells (MW-8 and MW-9) were installed.
- July 1990 - Ultramar Inc purchased the site from Conoco.
- March 14, 1991 - Work Plan for additional assessment submitted.
- October 1991 - Drilled two additional offsite wells (MW-10 and MW-11) southwest of the site and one onsite recovery well (RW-1).
- November 1991 - Performed ground-water pump test and vapor extraction test.
- April 1992 - Ultramar submitted an Interim Remediation Plan.
- June 1992 - Interim Remediation Plan was approved.
- March 1993 - Installed the subsurface piping for the remediation system.
- April 1993 - Completed installation of ground-water remediation system.
- June 1993 - Began operation.
- April 1993 - The ground-water extraction system began operation.
- March 1994 - The vapor extraction system began operation.
- June 8, 1994 - Obtained the Permit to Operate for the vapor extraction system.
- December 1995 - Installed an air sparging system.
- January 1997 - Discontinued to operate the remediation system. Approximately 1,184,392 gallons of ground water have been removed, treated, and discharged. Approximately 103 gallons of hydrocarbons have been removed by the vapor extraction system.

**CONTINUED NEXT PAGE**

## HISTORICAL BACKGROUND INFORMATION

Tesoro Station No. 67107  
(Former Beacon Station No. 3721)  
44 Lewelling Boulevard  
San Lorenzo, California

- October 1997 - Drilled confirmation borings. Results indicate soil clean.
- June 1998 - The air sparging system was restarted.
- July 1999 - The ground water system was restarted.
- April 3, 2000 – The soil vapor extraction system was restarted.
- During early July 2001, the station piping, dispensers, and tank top were upgraded. Details of the line sampling and over-excavation activities are included in the Doulos report entitled *Product Line and Excavation Sampling Results Report*, dated October 1, 2001.
- On May 17, 2002, Tesoro Petroleum purchased the facility from Ultramar Inc.
- On September 16, 2004, RDM installed recovery well MW-3R and RW-2.

**ENCLOSURE B**

Ground Water Sampling Information





Client: <u>Tesoro</u>	Sample Data: <u>7/16/2004</u>
Site: <u>Tesor Station 67107</u>	Project Number: <u>02-67107</u>
<u>44 Lewelling Blvd, San Lorenzo, CA</u>	Well Designation: <u>NW-1</u>
Signature: <u>[Signature]</u>	

**Well Box Condition/Traffic**

Traffic Control	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Time: <u>1050</u> hours
Standing water	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	above or below casing
Top of well level	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Remark: _____
Well cap & locked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Remark: _____
Height of Riser	<u>5"</u>	
Well Box	8" <input checked="" type="checkbox"/> 24" <input type="checkbox"/>	Type of well box <u>NOT MARKED</u>

**Purging/Sampling Equipment**

**Purging -**

2" Disposable Bailer	_____	Submersible Pump	<u>X</u>
2" PVC Bailer	_____	Dedicated Bailer	_____
4" PVC Bailleurs	_____	Centrifugal Pump	_____

**Sampling -**

Disposable Bailer	<u>X</u>	Teflon Bailer	_____	Disposable Tubing	_____
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**Well Purging**

Well Diameter:	2" <u>X</u>	4" _____	6" _____	8" _____	
Purge Vol. Multiplier	0.16	0.65	1.47	2.61	
Initial Measurement	_____	Recharge Measurement	_____	Calculated Purge	<u>8.47</u>
Time:	<u>0944</u>	Time:	_____	Actual Purge	<u>8.50</u>
Depth of Well	<u>33.64</u>	Depth to Water	_____		
Depth to Water	<u>15.44</u>				

**Sample**

Start Purge 1053 Sample Time 1105

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
<u>1056</u>	<u>68.7</u>	<u>686</u>	<u>6.97</u>			<u>1</u>
<u>1059</u>	<u>68.2</u>	<u>711</u>	<u>6.98</u>			<u>2</u>
<u>1052</u>	<u>68.2</u>	<u>717</u>	<u>7.03</u>			<u>3</u>

Sample Appearance CLEAR Lock OK

**Equipment Replacement**

Lock OK Well Cap OK Bolts OK Box OK

Remarks:

Client: Tesoro Sample Data: 7/16/2004  
 Site: Tesor Station 67107 Project Number: 02-67107  
44 Lewelling Blvd, San Lorenzo, CA Well Designation: MW-2  
 Signature: [Signature]

**Well Box Condition/Traffic**

Traffic Control  Yes  No Time: 1015 hours  
 Standing water Yes  No above or below casing  
 Top of well level  Yes  No Remark: \_\_\_\_\_  
 Well cap & locked  Yes  No Remark: \_\_\_\_\_  
 Height of Riser 6"  
 Well Box 8" 12"  24" Type of well box not marked

**Purging/Sampling Equipment**

**Purging -**

2" Disposable Bailer \_\_\_\_\_ Submersible Pump   
 2" PVC Bailer \_\_\_\_\_ Dedicated Bailer \_\_\_\_\_  
 4" PVC Bailer \_\_\_\_\_ Centrifugal Pump \_\_\_\_\_

**Sampling -**

Disposable Bailer  Teflon Bailer \_\_\_\_\_ Disposable Tubing \_\_\_\_\_

**Well Purging**

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

Initial Measurement \_\_\_\_\_ Recharge Measurement \_\_\_\_\_ Calculated Purge 9.27  
 Time: 0943 Time: \_\_\_\_\_ Actual Purge 9.5  
 Depth of Well 34.35 Depth to Water \_\_\_\_\_  
 Depth to Water 15.03

**Sample**

Start Purge 1032 Sample Time 1042

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
<u>1035</u>	<u>69.4</u>	<u>601</u>	<u>6.71</u>			<u>1</u>
<u>1037</u>	<u>69.1</u>	<u>628</u>	<u>6.76</u>			<u>2</u>
<u>1040</u>	<u>69.0</u>	<u>649</u>	<u>6.82</u>			<u>3</u>

Sample Appearance CLEAR Lock ON

**Equipment Replacement**

Lock ON Well Cap ON Bolts ON Box ON

Remarks:

Client: Tesoro Sample Data: 7/16/2004  
 Site: Tesor Station 67107 Project Number: 02-67107  
44 Lewelling Blvd, San Lorenzo, CA Well Designation: MW-3  
 Signature: [Signature]

**Well Box Condition/Traffic**

Traffic Control  Yes  No Time: 1133 hours  
 Standing water  Yes  No above or below casing  
 Top of well level  Yes  No Remark: \_\_\_\_\_  
 Well cap & locked  Yes  No Remark: \_\_\_\_\_  
 Height of Riser 5"  
 Well Box 8"  12"  24" Type of well box C.I.I.

**Purging/Sampling Equipment**

**Purging -**

2" Disposable Bailer \_\_\_\_\_ Submersible Pump   
 2" PVC Bailer \_\_\_\_\_ Dedicated Bailer \_\_\_\_\_  
 4" PVC Bailer \_\_\_\_\_ Centrifugal Pump \_\_\_\_\_

**Sampling -**

Disposable Bailer  Teflon Bailer \_\_\_\_\_ Disposable Tubing \_\_\_\_\_

**Well Purging**

Well Diameter:	2" <input checked="" type="checkbox"/>	4" _____	6" _____	8" _____
Purge Vol. Multiplier	0.16	0.65	1.47	2.61

Initial Measurement \_\_\_\_\_ Recharge Measurement \_\_\_\_\_ Calculated Purge 9.03  
 Time: 0950 Time: \_\_\_\_\_ Actual Purge 9.5  
 Depth of Well 34.23 Depth to Water \_\_\_\_\_  
 Depth to Water 15.42

**Sample**

Start Purge 1139 Sample Time 1151

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
<u>1143</u>	<u>69.5</u>	<u>859</u>	<u>6.82</u>			<u>1</u>
<u>1145</u>	<u>69.2</u>	<u>913</u>	<u>6.82</u>			<u>2</u>
<u>1147</u>	<u>69.1</u>	<u>910</u>	<u>6.84</u>			<u>3</u>

Sample Appearance cloudy Lock ON

**Equipment Replacement**

Lock ON Well Cap ON Bolts ON Box OK

Remarks:

Client: <u>Tesoro</u>	Sample Data: <u>7/16/2004</u>
Site: <u>Tesor Station 67107</u>	Project Number: <u>02-67107</u>
<u>44 Lewelling Blvd, San Lorenzo, CA</u>	Well Designation: <u>MW-10</u>
Signature: <u>[Signature]</u>	

**Well Box Condition/Traffic**

Traffic Control	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Time: <u>1205</u> hours
Standing water	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	above or below casing
Top of well level	<input checked="" type="checkbox"/> Yes No	Remark: _____
Well cap & locked	<input checked="" type="checkbox"/> Yes No	Remark: _____
Height of Riser	<u>1</u> "	
Well Box	<input checked="" type="radio"/> 8" <input type="radio"/> 12" <input type="radio"/> 24"	Type of well box <u>Brainard K./man</u>

**Purging/Sampling Equipment**

**Purging -**

2" Disposable Bailer	_____	Submersible Pump	<input checked="" type="checkbox"/>
2" PVC Bailer	_____	Dedicated Bailer	_____
4" PVC Bailers	_____	Centrifugal Pump	_____

**Sampling -**

Disposable Bailer	<input checked="" type="checkbox"/>	Teflon Bailer	_____	Disposable Tubing	_____
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**Well Purging**

Well Diameter:	2" <input checked="" type="checkbox"/>	4" _____	6" _____	8" _____
Purge Vol. Multiplier	0.16	0.65	1.47	2.61
Initial Measurement	_____	Recharge Measurement	_____	Calculated Purge <u>6.87</u>
Time:	<u>0952</u>	Time:	_____	Actual Purge <u>7.0</u>
Depth of Well	<u>29.40</u>	Depth to Water	_____	
Depth to Water	<u>15.09</u>			

**Sample**

Start Purge	<u>1208</u>	Sample Time	<u>1216</u>
-------------	-------------	-------------	-------------

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
<u>1211</u>	<u>67.6</u>	<u>686</u>	<u>6.89</u>			<u>1</u>
<u>1213</u>	<u>67.4</u>	<u>683</u>	<u>6.83</u>			<u>2</u>
<u>1214</u>	<u>67.3</u>	<u>683</u>	<u>6.80</u>			<u>3</u>

Sample Appearance	<u>CLEAR</u>	Lock	<u>OK</u>
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**Equipment Replacement**

Lock	<u>04</u>	Well Cap	<u>04</u>	Bolts	<u>Need 3</u>	Box	<u>04</u>
------	-----------	----------	-----------	-------	---------------	-----	-----------

Remarks:

Client: <u>Tesoro</u>	Sample Data: <u>7/16/2004</u>
Site: <u>Tesor Station 67107</u>	Project Number: <u>02-67107</u>
<u>44 Lewelling Blvd, San Lorenzo, CA</u>	Well Designation: <u>MW-11</u>
Signature: <u>[Signature]</u>	

**Well Box Condition/Traffic**

Traffic Control	<input checked="" type="radio"/> Yes <input type="radio"/> No	Time: <u>1115</u> hours
Standing water	<input type="radio"/> Yes <input checked="" type="radio"/> No	above or below casing
Top of well level	<input checked="" type="radio"/> Yes <input type="radio"/> No	Remark: _____
Well cap & locked	<input checked="" type="radio"/> Yes <input type="radio"/> No	Remark: _____
Height of Riser	<u>1'</u>	
Well Box	<input checked="" type="radio"/> 8" <input type="radio"/> 12" <input type="radio"/> 24"	Type of well box <u>Bramard Kilman</u>

**Purging/Sampling Equipment**

**Purging -**

2" Disposable Bailer	_____	Submersible Pump	<input checked="" type="checkbox"/>
2" PVC Bailer	_____	Dedicated Bailer	_____
4" PVC Bailer	_____	Centrifugal Pump	_____

**Sampling -**

Disposable Bailer	<input checked="" type="checkbox"/>	Teflon Bailer	_____	Disposable Tubing	_____
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**Well Purging**

Well Diameter: 2"	<input checked="" type="checkbox"/>	4"	_____	6"	_____	8"	_____
Purge Vol. Multiplier	0.16	0.65	1.47	2.61			
Initial Measurement	_____	Recharge Measurement	_____	Calculated Purge	<u>5.14</u>		
Time:	<u>0948</u>	Time:	_____	Actual Purge	<u>6.5</u>		
Depth of Well	<u>29.34</u>	Depth to Water	_____				
Depth to Water	<u>18.01</u>						

**Sample**

Start Purge	<u>1117</u>	Sample Time	<u>1125</u>
-------------	-------------	-------------	-------------

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
<u>1119</u>	<u>66.4</u>	<u>664</u>	<u>6.87</u>			<u>1</u>
<u>1120</u>	<u>66.1</u>	<u>658</u>	<u>6.80</u>			<u>2</u>
<u>1122</u>	<u>66.2</u>	<u>654</u>	<u>6.75</u>			<u>3</u>

Sample Appearance	<u>CLEAR</u>	Lock	<u>OK</u>
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**Equipment Replacement**

Lock	<u>04</u>	Well Cap	<u>04</u>	Bolts	<u>Need 3</u>	Box	<u>i Bolt strength is thread</u>
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Remarks: \_\_\_\_\_

Client: Tesoro Sample Data: 7/16/2004  
 Site: Tesor Station 67107 Project Number: 02-67107  
44 Lewelling Blvd, San Lorenzo, CA Well Designation: RW-1  
 Signature: [Signature]

**Well Box Condition/Traffic**

Traffic Control Yes  No  Time: 0935 hours  
 Standing water Yes  No  above or below casing  
 Top of well level  Yes  No Remark: \_\_\_\_\_  
 Well cap & locked Yes  No  Remark: Active recovery well  
 Height of Riser 12"  
 Well Box 8" 12"  24" Type of well box not marked

**Purging/Sampling Equipment**

**Purging -** N/A, Active recovery well  
 2" Disposable Bailer \_\_\_\_\_ Submersible Pump \_\_\_\_\_  
 2" PVC Bailer \_\_\_\_\_ Dedicated Bailer \_\_\_\_\_  
 4" PVC Bailer \_\_\_\_\_ Centrifugal Pump \_\_\_\_\_

**Sampling -** From Inf sample port

Disposable Bailer \_\_\_\_\_ Teflon Bailer \_\_\_\_\_ Disposable Tubing \_\_\_\_\_

**Well Purging**

Well Diameter:	2"	4"	6"	8"
Purge Vol. Multiplier	0.16	0.65	1.47	2.61
Initial Measurement		Recharge Measurement		Calculated Purge <u>17.90</u>
Time:	<u>0935</u>	Time:		Actual Purge <u>N/A</u>
Depth of Well	<u>34.10</u>	Depth to Water		
Depth to Water	<u>30.04</u>			

**Sample**

Start Purge N/A Sample Time 1010

Time	Temperature	E.C.	pH	ORP	Turbidity	Volume
<del>N/A PURGE</del>						

Sample Appearance CLEAR Lock N/A

**Equipment Replacement**

Lock N/A Well Cap ON Bolts Need 1 Box OK

Remarks:

**ENCLOSURE C**

Ground Water Monitoring  
Analytical Results



Report Number : 39267

Date : 07/26/2004

Richard Munsch  
RDM Environmental  
1704 Via Riata  
Roseville, CA 95747

Subject : 6 Water Samples  
Project Name : Tesoro Station 67107  
Project Number : 67107

Dear Mr. Munsch,

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff", is written over a printed name.

Joel Kiff





Report Number : 39267

Date : 07/26/2004

Subject : 6 Water Samples  
Project Name : Tesoro Station 67107  
Project Number : 67107

## Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with samples MW-1, MW-3 for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Approved By:

A handwritten signature in black ink, appearing to read "Joe Kiff", is written over the printed name "Joe Kiff".

Joe Kiff



Report Number : 39267

Date : 07/26/2004

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : MW-1

Matrix : Water

Lab Number : 39267-01

Sample Date :07/16/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 1.5	1.5	ug/L	EPA 8260B	07/21/2004
Toluene	< 1.5	1.5	ug/L	EPA 8260B	07/21/2004
Ethylbenzene	< 1.5	1.5	ug/L	EPA 8260B	07/21/2004
Total Xylenes	< 1.5	1.5	ug/L	EPA 8260B	07/21/2004
Methyl-t-butyl ether (MTBE)	660	1.5	ug/L	EPA 8260B	07/21/2004
Diisopropyl ether (DIPE)	< 1.5	1.5	ug/L	EPA 8260B	07/21/2004
Ethyl-t-butyl ether (ETBE)	< 1.5	1.5	ug/L	EPA 8260B	07/21/2004
Tert-amyl methyl ether (TAME)	< 1.5	1.5	ug/L	EPA 8260B	07/21/2004
Tert-Butanol	< 20	20	ug/L	EPA 8260B	07/21/2004
TPH as Gasoline	280	200	ug/L	EPA 8260B	07/21/2004
Toluene - d8 (Surr)	99.1		% Recovery	EPA 8260B	07/21/2004
4-Bromofluorobenzene (Surr)	98.4		% Recovery	EPA 8260B	07/21/2004

Approved By:

Joel Kiff



Report Number : 39267

Date : 07/26/2004

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : MW-2

Matrix : Water

Lab Number : 39267-02

Sample Date :07/16/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Methyl-t-butyl ether (MTBE)	68	0.50	ug/L	EPA 8260B	07/22/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/22/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/22/2004
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	07/22/2004
4-Bromofluorobenzene (Surr)	99.4		% Recovery	EPA 8260B	07/22/2004

Approved By:

  
Joel Kiff



Report Number : 39267

Date : 07/26/2004

Project Name : Tesoro Station 67107

Project Number : 67107


Sample : MW-3

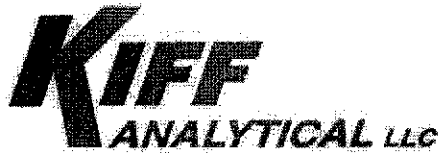
Matrix : Water

Lab Number : 39267-03

Sample Date :07/16/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	94	2.0	ug/L	EPA 8260B	07/21/2004
Toluene	27	2.0	ug/L	EPA 8260B	07/21/2004
Ethylbenzene	9.4	2.0	ug/L	EPA 8260B	07/21/2004
Total Xylenes	38	2.0	ug/L	EPA 8260B	07/21/2004
Methyl-t-butyl ether (MTBE)	810	2.0	ug/L	EPA 8260B	07/21/2004
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	07/21/2004
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	07/21/2004
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	07/21/2004
Tert-Butanol	580	20	ug/L	EPA 8260B	07/21/2004
TPH as Gasoline	980	200	ug/L	EPA 8260B	07/21/2004
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	07/21/2004
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	07/21/2004

Approved By:   
Joel Kiff



Report Number : 39267

Date : 07/26/2004

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : MW-10

Matrix : Water

Lab Number : 39267-04

Sample Date :07/16/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 1.0	1.0	ug/L	EPA 8260B	07/23/2004
Toluene	3.5	1.0	ug/L	EPA 8260B	07/23/2004
Ethylbenzene	110	1.0	ug/L	EPA 8260B	07/23/2004
Total Xylenes	29	1.0	ug/L	EPA 8260B	07/23/2004
Methyl-t-butyl ether (MTBE)	40	1.0	ug/L	EPA 8260B	07/23/2004
Diisopropyl ether (DIPE)	< 1.0	1.0	ug/L	EPA 8260B	07/23/2004
Ethyl-t-butyl ether (ETBE)	< 1.0	1.0	ug/L	EPA 8260B	07/23/2004
Tert-amyl methyl ether (TAME)	< 1.0	1.0	ug/L	EPA 8260B	07/23/2004
Tert-Butanol	< 10	10	ug/L	EPA 8260B	07/23/2004
TPH as Gasoline	6300	100	ug/L	EPA 8260B	07/23/2004
Toluene - d8 (Surr)	96.5		% Recovery	EPA 8260B	07/23/2004
4-Bromofluorobenzene (Surr)	97.2		% Recovery	EPA 8260B	07/23/2004

Approved By:

Joel Kiff



Report Number : 39267

Date : 07/26/2004

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : MW-11

Matrix : Water

Lab Number : 39267-05

Sample Date :07/16/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Methyl-t-butyl ether (MTBE)	10	0.50	ug/L	EPA 8260B	07/22/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/22/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/22/2004
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	07/22/2004
4-Bromofluorobenzene (Surr)	99.1		% Recovery	EPA 8260B	07/22/2004

Approved By:

Joel Kiff



Report Number : 39267

Date : 07/26/2004

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : RW-1

Matrix : Water

Lab Number : 39267-06

Sample Date : 07/16/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	0.72	0.50	ug/L	EPA 8260B	07/22/2004
<b>Toluene</b>	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
<b>Ethylbenzene</b>	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
<b>Total Xylenes</b>	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
<b>Methyl-t-butyl ether (MTBE)</b>	100	0.50	ug/L	EPA 8260B	07/22/2004
<b>Diisopropyl ether (DIPE)</b>	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
<b>Tert-amyl methyl ether (TAME)</b>	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
<b>Tert-Butanol</b>	7.2	5.0	ug/L	EPA 8260B	07/22/2004
<b>TPH as Gasoline</b>	< 50	50	ug/L	EPA 8260B	07/22/2004
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	07/22/2004
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	07/22/2004

Approved By:

  
Joel Kiff

Report Number : 39267

Date : 07/26/2004

**QC Report : Method Blank Data**

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/21/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/21/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/21/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/21/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/21/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/21/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/21/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/21/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/21/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/21/2004
Toluene - d8 (Surr)	100		%	EPA 8260B	07/21/2004
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	07/21/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/22/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/22/2004
Toluene - d8 (Surr)	98.2		%	EPA 8260B	07/22/2004
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	07/22/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/20/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/20/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/20/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/20/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/20/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/20/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/20/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/20/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/20/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/20/2004
Toluene - d8 (Surr)	98.3		%	EPA 8260B	07/20/2004
4-Bromofluorobenzene (Surr)	98.0		%	EPA 8260B	07/20/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	07/22/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	07/22/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/22/2004
Toluene - d8 (Surr)	96.2		%	EPA 8260B	07/22/2004
4-Bromofluorobenzene (Surr)	99.5		%	EPA 8260B	07/22/2004

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

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



Report Number : 39267

Date : 07/26/2004

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : Tesoro Station 67107

Project Number : 67107

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	39235-02	150	40.0	40.0	187	184	ug/L	EPA 8260B	7/21/04	80.0	72.7	9.52	70-130	25
Toluene	39235-02	<0.50	40.0	40.0	39.0	38.7	ug/L	EPA 8260B	7/21/04	97.6	96.8	0.810	70-130	25
Tert-Butanol	39235-02	19	200	200	217	219	ug/L	EPA 8260B	7/21/04	98.9	100	1.08	70-130	25
Methyl-t-Butyl Ether	39235-02	16	40.0	40.0	56.6	57.6	ug/L	EPA 8260B	7/21/04	100	103	2.42	70-130	25
Benzene	39289-01	<0.50	4.00	4.00	3.61	3.57	ug/L	EPA 8260B	7/22/04	90.3	89.2	1.19	70-130	25
Toluene	39289-01	<0.50	4.00	4.00	3.47	3.35	ug/L	EPA 8260B	7/22/04	86.6	83.8	3.28	70-130	25
Tert-Butanol	39289-01	<5.0	20.0	20.0	16.9	17.5	ug/L	EPA 8260B	7/22/04	84.3	87.7	3.94	70-130	25
Methyl-t-Butyl Ether	39289-01	1.5	4.00	4.00	4.60	4.61	ug/L	EPA 8260B	7/22/04	78.5	78.7	0.277	70-130	25
Benzene	39258-01	0.85	40.0	40.0	42.0	41.0	ug/L	EPA 8260B	7/20/04	103	100	2.57	70-130	25
Toluene	39258-01	0.74	40.0	40.0	41.5	41.1	ug/L	EPA 8260B	7/20/04	102	101	1.06	70-130	25
Tert-Butanol	39258-01	82	200	200	295	289	ug/L	EPA 8260B	7/20/04	107	104	2.87	70-130	25
Methyl-t-Butyl Ether	39258-01	110	40.0	40.0	190	198	ug/L	EPA 8260B	7/20/04	199	218	8.82	70-130	25
Benzene	39288-07	<0.50	40.0	40.0	39.5	37.4	ug/L	EPA 8260B	7/22/04	98.8	93.5	5.43	70-130	25
Toluene	39288-07	<0.50	40.0	40.0	31.4	30.8	ug/L	EPA 8260B	7/22/04	78.4	76.9	1.92	70-130	25
Tert-Butanol	39288-07	<5.0	200	200	211	214	ug/L	EPA 8260B	7/22/04	106	107	1.20	70-130	25
Methyl-t-Butyl Ether	39288-07	<0.50	40.0	40.0	43.8	42.1	ug/L	EPA 8260B	7/22/04	110	105	3.95	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 39267

Date : 07/26/2004

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	7/21/04	94.1	70-130
Toluene	40.0	ug/L	EPA 8260B	7/21/04	96.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/21/04	95.0	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/21/04	102	70-130
Benzene	40.0	ug/L	EPA 8260B	7/22/04	94.6	70-130
Toluene	40.0	ug/L	EPA 8260B	7/22/04	94.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/22/04	98.5	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/22/04	99.5	70-130
Benzene	40.0	ug/L	EPA 8260B	7/20/04	101	70-130
Toluene	40.0	ug/L	EPA 8260B	7/20/04	101	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/20/04	99.5	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/20/04	103	70-130
Benzene	40.0	ug/L	EPA 8260B	7/22/04	107	70-130
Toluene	40.0	ug/L	EPA 8260B	7/22/04	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/22/04	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/22/04	112	70-130

KIFF ANALYTICAL, LLC

Approved By:

  
Joe Kiff

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



# Analysis Summary

Report Number : 39267

Date : 07/26/04

Attention : Richard Munsch  
 RDM Environmental  
 1704 Via Riata  
 Roseville, CA 95747

Project Name : Tesoro Station 67107  
 Project Number : 67107

Sample Name			MW-1	MW-2	MW-3	MW-10	MW-11	RW-1						
Sample Date			07/16/04	07/16/04	07/16/04	07/16/04	07/16/04	07/16/04						
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	1.5	ND	0.50	ND	2.0	94	1.0	ND	0.50	ND	0.50	0.72
Toluene	EPA 8260B	ug/L	1.5	ND	0.50	ND	2.0	27	1.0	3.5	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	1.5	ND	0.50	ND	2.0	9.4	1.0	110	0.50	ND	0.50	ND
Total Xylenes	EPA 8260B	ug/L	1.5	ND	0.50	ND	2.0	38	1.0	29	0.50	ND	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	1.5	660	0.50	68	2.0	810	1.0	40	0.50	10	0.50	100
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	1.5	ND	0.50	ND	2.0	ND	1.0	ND	0.50	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	1.5	ND	0.50	ND	2.0	ND	1.0	ND	0.50	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	1.5	ND	0.50	ND	2.0	ND	1.0	ND	0.50	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	20	ND	5.0	ND	20	580	10	ND	5.0	ND	5.0	7.2
TPH as Gasoline	EPA 8260B	ug/L	200	280	50	ND	200	980	100	6300	50	ND	50	ND
Toluene - d8 (Surr)	EPA 8260B	%		99.1		101		98.3		96.5		100		99.7
4-Bromofluorobenzene (Surr)	EPA 8260B	%		98.4		99.4		100		97.2		99.1		101

MRL = Method Reporting Limit  
 ND = Not Detected

Approved By,

Joel Kiff



2795 2nd Street, Suite 300  
 Davis, CA 95616  
 Lab: 530.297.4800  
 Fax: 530.297.4808

Lab No. 39267 Page 1 of 1

Project Contact (Hardcopy or PDF To): Richard Munsch  
 California EDF Report?  Yes  No

Company/Address: 1704 Via Rinos Rm  
 Roseville CA 95747  
 Recommended but not mandatory to complete this section:  
 Sampling Company Log Code: RPMR

Phone No.: 916 771 7098 FAX No.: 916 771 4584  
 Project Number: 67107 P.O. No.:  
 Global ID: T-0-6-0-0-1-0-1-4-1-1  
 EDF Deliverable To (Email Address):

Project Name: Tesoro Station 67107  
 Project Address: 44 Leavelling Blvd  
 San Lorenzo, CA  
 Sampler Signature: [Signature]

**Chain-of-Custody Record and Analysis Request**

**Analysis Request**

Sample Designation	Sampling		Container	Preservative				Matrix		BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EOB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT	For Lab Use Only
	Date	Time	40 ml VOA SLEEVE	HCl	HNO <sub>3</sub>	ICE	NONE	WATER	SOIL															

Sample Designation	Date	Time	40 ml VOA SLEEVE	HCl	HNO <sub>3</sub>	ICE	NONE	WATER	SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EOB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT	For Lab Use Only	
MW-1	7/16/04	1105	3	X	X			X						X										01	
MW-2	7/16/04	1042	3	X	X			X						X										02	
MW-3	7/16/04	1151	3	X	X			X						X										03	
MW-10	7/16/04	1216	3	X	X			X						X										04	
MW-11	7/16/04	1125	3	X	X			X						X										05	
RW-1	7/16/04	1010	3	X	X			X						X										06	

Relinquished by: <u>[Signature]</u>	Date	Time	Received by: _____	Remarks: <u>STAT</u>
Relinquished by: _____	Date	Time	Received by: _____	
Relinquished by: _____	Date	Time	Received by Laboratory: <u>N.C. / KIFF ANALYTICAL</u>	

Bill to: Tesoro Petroleum / Rob Donovon

**ENCLOSURE D**

Remediation System Analytical Results



Report Number : 39410

Date : 8/3/2004

Richard Munsch  
RDM Environmental  
1704 Via Riata  
Roseville, CA 95747

Subject : 5 Water Samples  
Project Name : Tesoro Station 67107  
Project Number : 67107  
P.O. Number : 67107

Dear Mr. Munsch,

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

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

Sincerely,



Joel Kiff



Report Number : 39410

Date : 8/3/2004

Subject : 5 Water Samples  
Project Name : Tesoro Station 67107  
Project Number : 67107  
P.O. Number : 67107

## Case Narrative

Samples GW-Inf, MID1, GW-Eff were analyzed by EPA Method 8260B using a bottle that contained a headspace bubble greater than 1/4 inch in diameter.

Approved By:

A handwritten signature in black ink, appearing to read "Jde Kiff", is written over the printed name "Jde Kiff".



Report Number : 39410

Date : 8/3/2004

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : GW-Inf

Matrix : Water

Lab Number : 39410-01

Sample Date : 7/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.78	0.50	ug/L	EPA 8260B	7/31/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Methyl-t-butyl ether (MTBE)	120	0.50	ug/L	EPA 8260B	7/31/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Tert-Butanol	6.4	5.0	ug/L	EPA 8260B	7/31/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/31/2004
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	7/31/2004
4-Bromofluorobenzene (Surr)	97.5		% Recovery	EPA 8260B	7/31/2004

Approved By:

  
Joel Kiff





Report Number : 39410

Date : 8/3/2004

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : **DAT-Eff**

Matrix : Water

Lab Number : 39410-02

Sample Date : 7/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>1.0</b>	0.50	ug/L	EPA 8260B	7/31/2004
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/31/2004
<b>Ethylbenzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/31/2004
<b>Total Xylenes</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/31/2004
<b>Methyl-t-butyl ether (MTBE)</b>	<b>22</b>	0.50	ug/L	EPA 8260B	7/31/2004
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/31/2004
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/31/2004
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	7/31/2004
<b>Tert-Butanol</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	7/31/2004
<b>TPH as Gasoline</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	7/31/2004
Toluene - d8 (Surr)	96.6		% Recovery	EPA 8260B	7/31/2004
4-Bromofluorobenzene (Surr)	110		% Recovery	EPA 8260B	7/31/2004

Approved By:

Joel Kiff



Report Number : 39410

Date : 8/3/2004

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : **MID1**

Matrix : Water

Lab Number : 39410-03

Sample Date : 7/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
<b>Toluene</b>	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
<b>Ethylbenzene</b>	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
<b>Total Xylenes</b>	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
<b>Methyl-t-butyl ether (MTBE)</b>	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
<b>Diisopropyl ether (DIPE)</b>	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
<b>Tert-amyl methyl ether (TAME)</b>	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
<b>Tert-Butanol</b>	< 5.0	5.0	ug/L	EPA 8260B	7/31/2004
<b>TPH as Gasoline</b>	< 50	50	ug/L	EPA 8260B	7/31/2004
Toluene - d8 (Surr)	92.1		% Recovery	EPA 8260B	7/31/2004
4-Bromofluorobenzene (Surr)	96.2		% Recovery	EPA 8260B	7/31/2004

Approved By:

  
Joel Kiff



Report Number : 39410

Date : 8/3/2004

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : MID2

Matrix : Water

Lab Number : 39410-04

Sample Date : 7/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/31/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/31/2004
Toluene - d8 (Surr)	95.6		% Recovery	EPA 8260B	7/31/2004
4-Bromofluorobenzene (Surr)	108		% Recovery	EPA 8260B	7/31/2004

Approved By:

Joel Kiff



Report Number : 39410

Date : 8/3/2004

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : GW-Eff

Matrix : Water

Lab Number : 39410-05

Sample Date : 7/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/1/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/1/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/1/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/1/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/1/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/1/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/1/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/1/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/1/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/1/2004
Toluene - d8 (Surr)	97.6		% Recovery	EPA 8260B	8/1/2004
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	8/1/2004

Approved By:

Joel Kiff

Report Number : 39410

Date : 8/3/2004

**QC Report : Method Blank Data**

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/31/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/31/2004
Toluene - d8 (Surr)	95.3		%	EPA 8260B	7/31/2004
4-Bromofluorobenzene (Surr)	113		%	EPA 8260B	7/31/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/31/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/31/2004
Toluene - d8 (Surr)	101		%	EPA 8260B	7/31/2004
4-Bromofluorobenzene (Surr)	97.8		%	EPA 8260B	7/31/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	7/31/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	7/31/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/31/2004
Toluene - d8 (Surr)	91.6		%	EPA 8260B	7/31/2004
4-Bromofluorobenzene (Surr)	94.0		%	EPA 8260B	7/31/2004

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 39410


Date : 8/3/2004

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	39427-01	<0.50	40.0	40.0	38.2	37.5	ug/L	EPA 8260B	7/31/04	95.5	93.8	1.77	70-130	25
Toluene	39427-01	1.2	40.0	40.0	39.3	39.0	ug/L	EPA 8260B	7/31/04	95.3	94.4	0.912	70-130	25
Tert-Butanol	39427-01	<5.0	200	200	194	200	ug/L	EPA 8260B	7/31/04	97.0	100	3.19	70-130	25
Methyl-t-Butyl Ether	39427-01	<0.50	40.0	40.0	36.7	36.0	ug/L	EPA 8260B	7/31/04	91.7	90.0	1.84	70-130	25
Benzene	39395-03	<0.50	40.0	40.0	40.6	39.1	ug/L	EPA 8260B	7/31/04	102	97.7	3.86	70-130	25
Toluene	39395-03	<0.50	40.0	40.0	40.7	38.4	ug/L	EPA 8260B	7/31/04	102	96.0	5.86	70-130	25
Tert-Butanol	39395-03	<5.0	200	200	208	209	ug/L	EPA 8260B	7/31/04	104	105	0.610	70-130	25
Methyl-t-Butyl Ether	39395-03	<0.50	40.0	40.0	39.5	37.2	ug/L	EPA 8260B	7/31/04	98.6	93.0	5.94	70-130	25
Benzene	39436-02	<0.50	40.0	40.0	42.4	41.1	ug/L	EPA 8260B	7/31/04	106	103	3.28	70-130	25
Toluene	39436-02	<0.50	40.0	40.0	41.2	41.2	ug/L	EPA 8260B	7/31/04	103	103	0.174	70-130	25
Tert-Butanol	39436-02	<5.0	200	200	215	214	ug/L	EPA 8260B	7/31/04	108	107	0.460	70-130	25
Methyl-t-Butyl Ether	39436-02	<0.50	40.0	40.0	51.8	47.5	ug/L	EPA 8260B	7/31/04	130	119	8.62	70-130	25

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 39410

Date : 8/3/2004

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	7/31/04	91.5	70-130
Toluene	40.0	ug/L	EPA 8260B	7/31/04	93.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/31/04	93.1	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/31/04	103	70-130
Benzene	40.0	ug/L	EPA 8260B	7/30/04	106	70-130
Toluene	40.0	ug/L	EPA 8260B	7/30/04	112	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/30/04	113	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/30/04	109	70-130
Benzene	40.0	ug/L	EPA 8260B	7/31/04	110	70-130
Toluene	40.0	ug/L	EPA 8260B	7/31/04	101	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/31/04	107	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/31/04	119	70-130

KIFF ANALYTICAL, LLC

Approved By:

  
Joe Kiff

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



# Analysis Summary

Report Number : 39410

Date : 8/3/2004

Attention : Richard Munsch  
 RDM Environmental  
 1704 Via Riata  
 Roseville, CA 95747

Project Name : Tesoro Station 67107  
 Project Number : 67107

Sample Name			GW-Inf		DAT-Eff		MID1		MID2		GW-Eff	
Sample Date			7/28/2004		7/28/2004		7/28/2004		7/28/2004		7/28/2004	
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	0.78	0.50	1.0	0.50	ND	0.50	ND	0.50	ND
Toluene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Total Xylenes	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	120	0.50	22	0.50	ND	0.50	ND	0.50	ND
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	6.4	5.0	ND	5.0	ND	5.0	ND	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L	50	ND	50	ND	50	ND	50	ND	50	ND
Toluene - d8 (Surr)	EPA 8260B	%		99.2		96.6		92.1		95.6		97.6
4-Bromofluorobenzene (Surr)	EPA 8260B	%		97.5		110		96.2		108		107

MRL = Method Reporting Limit  
 ND = Not Detected

Approved By,

Joel Kiff



August 05, 2004

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

Subject: **Calscience Work Order No.: 04-07-1573**  
Client Reference: **Tesoro Station 67107**

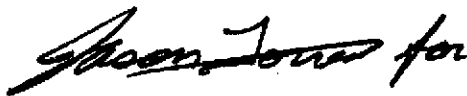
Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/30/2004 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,



Calscience Environmental  
Laboratories, Inc.  
Stephen Nowak  
Project Manager



Larry Lem  
Quality Assurance Manager

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

Date Received: 07/30/04  
 Work Order No: 04-07-1573

Project: Tesoro Station 67107

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix
GWER	04-07-1573-1	07/29/04	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Suspended	8.5	1.0	1		mg/L	N/A	08/03/04	EPA 160.2
Chemical Oxygen Demand	10	5	1		mg/L	N/A	07/30/04	EPA 410.4

Method Blank	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Method Blank	ND	5.0	1		mg/L	N/A	07/30/04	EPA 410.4

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	N/A	07/30/04	EPA 410.4

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



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

Date Received:  
Work Order No:

07/30/04  
04-07-1573

Project: Tesoro Station 67107

Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc.	DUP Conc.	RPD	RPD-CL	Qualifiers
Chemical Oxygen Demand	EPA 410.4	04-07-1522-1	07/30/04	500	490	1	0-25	
Solids, Total Suspended	EPA 180.2	04-07-1834-2	08/03/04	260	290	11	0-25	

RPD - Relative Percent Difference, CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

Work Order Number: 04-07-1573

---

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





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

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

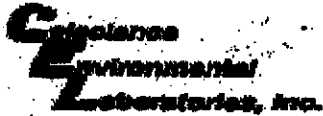
Lab No. (157) Page 1 of 1

Project Contact (Hardcopy or PDF to): Joel Kiff **Geotracker COELT EDD REPORT?**  YES  NO **Chain-of-Custody Record and Analysis Request**

Company/Address: Kiff Analytical, LLC **Sampling Company Log Code:**   
 Phone No.:   
 FAX No.: **Global ID:**   
 Project Number: 67107 P.O. No.: 39410 **EDF Deliverable to (Email Address):**   
 Project Name: Tesoro Station 67107 **E-mail address:** Inbox@kiffanalytical.com

Sample Designation	Sampling		Container					Preservative					Matrix			C.O.D	T.S.S					Date Due:	For Lab Use Only			
	Date	Time	Glass Jar	Poly	Amber	Sleeve	Tedlar	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	ICE	HCl	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	WATER	SOIL	AIR											
GW-Eff	7/28/04	12:57		1	1			X		X			X			X	X							August 5, 2004		

Relinquished by: <i>[Signature]</i>	Date: <u>7/27/04</u>	Time: <u>1900</u>	Received by:	Remarks:
Relinquished by:	Date:	Time:	Received by:	
Relinquished by:	Date: <u>7/27/04</u>	Time: <u>0800</u>	Received by: <i>[Signature]</i>	
				Bill to:



WORK ORDER #: 04-07-1573

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kiper

DATE: 7/30/04

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

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

LABORATORY (Other than Calscience Courier):

- 3.1 C Temperature blank.
3.3 C IR thermometer.
Ambient temperature.

Initial: JP

CUSTODY SEAL INTACT:

Sample(s): Cooler: [checked] No (Not Intact): Not Applicable (N/A):

Initial: JP

SAMPLE CONDITION:

Table with 4 columns: Description, Yes, No, N/A. Rows include Chain-Of-Custody document(s), Sample container label(s), Sample container(s) intact, Correct containers, Proper preservation, VOA vial(s), and Tedlar bag(s).

Initial: JP

COMMENTS:

Blank lines for handwritten comments.



2795 2nd Street, Suite 300  
 Davis, CA 95616  
 Lab: 530.297.4800  
 Fax: 530.297.4808

Lab No. 39410

Page 1 of 1

Project Contact (Hardcopy or PDF To):  
Richard Munsch

California EDF Report?  Yes  No

**Chain-of-Custody Record and Analysis Request**

Company/Address:  
RDM Environmental

Recommended but not mandatory to complete this section:  
 Sampling Company Log Code: . . . . .

Phone No.:  
(916) 771-7088

FAX No.:  
(916) 771-4584

Global ID:  
 . . . . .

Project Number:  
67607

P.O. No.:  
67607

EDF Deliverable To (Email Address):  
 . . . . .

Project Name:  
Tesoro Station 67607

Sampler Signature:

Project Address:  
San Lorenzo, CA

Sampling Container Preservative Matrix

Analysis Request												TAT																							
Sample Designation	Date	Time	40 ml VOA	SLEEVE	Amber	Poly	HCl	HNO <sub>3</sub>	ICE	NONE	None	Water	SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/MB015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/238-2)	TOTAL (X)	W.E.T. (X)	12 hr /24 hr/48 hr/72 hr/1wk	For Lab Use Only					
GW-Inf	7/26/04	13:05	2																X																
DAT-Eff		13:03	2																X																
MID1		13:01	2																X																
MID2		12:59	2																X																
GW-Eff		12:57	2			1	1	X	X	X	X	X	X						X								X	X							

Relinquished by:

Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_

Remarks: STA1

Relinquished by: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_

Date: 072904 Time: 1555 Received by Laboratory: Osama Al-Badani / KIFF Analytical

Bill to: Tesoro Petroleum



Report Number : 34603

Date : 8/28/2003

Richard Munsch  
RDM Environmental  
1704 Via Riata  
Roseville, CA 95747

Subject : 4 Water Samples  
Project Name : Tesoro Station 67107  
Project Number : 67107  
P.O. Number : 67107

Dear Mr. Munsch,

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

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

Sincerely,



Jeff Dahl





Report Number : 39728

Date : 8/27/2004

Richard Munsch  
RDM Environmental  
1704 Via Riata  
Roseville, CA 95747

Subject : 5 Water Samples  
Project Name : Tesoro Station 67107  
Project Number : 67107  
P.O. Number : 67107

Dear Mr. Munsch,

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

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

Sincerely,



Joel Kiff



Report Number : 39728

Date : 8/27/2004

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : **H2O - Inf**

Matrix : Water

Lab Number : 39728-01

Sample Date :8/17/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/21/2004
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/21/2004
<b>Ethylbenzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/21/2004
<b>Total Xylenes</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/21/2004
<b>Methyl-t-butyl ether (MTBE)</b>	<b>66</b>	0.50	ug/L	EPA 8260B	8/21/2004
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/21/2004
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/21/2004
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/21/2004
<b>Tert-Butanol</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	8/21/2004
<b>TPH as Gasoline</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	8/21/2004
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	8/21/2004
4-Bromofluorobenzene (Surr)	90.7		% Recovery	EPA 8260B	8/21/2004

Approved By:

  
Joel Kiff



Report Number : 39728

Date : 8/27/2004

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : **DAT - Out**

Matrix : Water

Lab Number : 39728-02

Sample Date :8/17/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/27/2004
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/27/2004
<b>Ethylbenzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/27/2004
<b>Total Xylenes</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/27/2004
<b>Methyl-t-butyl ether (MTBE)</b>	<b>45</b>	0.50	ug/L	EPA 8260B	8/27/2004
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/27/2004
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/27/2004
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/27/2004
<b>Tert-Butanol</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	8/27/2004
<b>TPH as Gasoline</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	8/27/2004
Toluene - d8 (Surr)	91.8		% Recovery	EPA 8260B	8/27/2004
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	8/27/2004

Approved By:

  
Joel Kiff



Report Number : 39728

Date : 8/27/2004

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : MID - 1

Matrix : Water

Lab Number : 39728-03

Sample Date :8/17/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
<b>Toluene</b>	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
<b>Ethylbenzene</b>	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
<b>Total Xylenes</b>	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
<b>Methyl-t-butyl ether (MTBE)</b>	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
<b>Diisopropyl ether (DIPE)</b>	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
<b>Tert-amyl methyl ether (TAME)</b>	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
<b>Tert-Butanol</b>	< 5.0	5.0	ug/L	EPA 8260B	8/21/2004
<b>TPH as Gasoline</b>	< 50	50	ug/L	EPA 8260B	8/21/2004
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	8/21/2004
4-Bromofluorobenzene (Surr)	93.3		% Recovery	EPA 8260B	8/21/2004

Approved By:

Joel Kiff



Report Number : 39728

Date : 8/27/2004

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : **MID - 2**

Matrix : **Water**

Lab Number : **39728-04**

Sample Date : **8/17/2004**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/22/2004
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/22/2004
<b>Ethylbenzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/22/2004
<b>Total Xylenes</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/22/2004
<b>Methyl-t-butyl ether (MTBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/22/2004
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/22/2004
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/22/2004
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	8/22/2004
<b>Tert-Butanol</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	8/22/2004
<b>TPH as Gasoline</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	8/22/2004
<b>Toluene - d8 (Surr)</b>	<b>96.8</b>		% Recovery	EPA 8260B	8/22/2004
<b>4-Bromofluorobenzene (Surr)</b>	<b>94.2</b>		% Recovery	EPA 8260B	8/22/2004

Approved By:

  
Joel Kiff



Report Number : 39728

Date : 8/27/2004

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : H2O - Eff

Matrix : Water

Lab Number : 39728-05

Sample Date :8/17/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/22/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/22/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/22/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/22/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/22/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/22/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/22/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/22/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/22/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/22/2004
Toluene - d8 (Surr)	97.2		% Recovery	EPA 8260B	8/22/2004
4-Bromofluorobenzene (Surr)	93.8		% Recovery	EPA 8260B	8/22/2004

Approved By:

Joel Kiff

Report Number : 39728

Date : 8/27/2004

**QC Report : Method Blank Data**

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/21/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/21/2004
Toluene - d8 (Surr)	97.8		%	EPA 8260B	8/21/2004
4-Bromofluorobenzene (Surr)	93.3		%	EPA 8260B	8/21/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/21/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/21/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/21/2004
Toluene - d8 (Surr)	96.2		%	EPA 8260B	8/21/2004
4-Bromofluorobenzene (Surr)	93.5		%	EPA 8260B	8/21/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	8/26/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	8/26/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	8/26/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	8/26/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	8/26/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	8/26/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	8/26/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	8/26/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	8/26/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	8/26/2004
Toluene - d8 (Surr)	94.1		%	EPA 8260B	8/26/2004
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	8/26/2004

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 39728

Date : 8/27/2004

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	39726-04	<0.50	40.0	40.0	40.2	40.0	ug/L	EPA 8260B	8/21/04	100	99.9	0.559	70-130	25
Toluene	39726-04	<0.50	40.0	40.0	39.6	39.6	ug/L	EPA 8260B	8/21/04	98.9	99.1	0.209	70-130	25
Tert-Butanol	39726-04	<5.0	200	200	197	203	ug/L	EPA 8260B	8/21/04	98.7	101	2.79	70-130	25
Methyl-t-Butyl Ether	39726-04	<0.50	40.0	40.0	43.3	43.6	ug/L	EPA 8260B	8/21/04	108	109	0.714	70-130	25
Benzene	39723-01	<0.50	40.0	40.0	39.0	38.0	ug/L	EPA 8260B	8/21/04	97.5	95.1	2.55	70-130	25
Toluene	39723-01	<0.50	40.0	40.0	39.2	38.1	ug/L	EPA 8260B	8/21/04	98.1	95.2	2.94	70-130	25
Tert-Butanol	39723-01	<5.0	200	200	199	198	ug/L	EPA 8260B	8/21/04	99.3	98.9	0.428	70-130	25
Methyl-t-Butyl Ether	39723-01	120	40.0	40.0	158	157	ug/L	EPA 8260B	8/21/04	90.3	89.2	1.21	70-130	25
Benzene	39776-01	<0.50	40.0	40.0	41.3	42.1	ug/L	EPA 8260B	8/26/04	103	105	1.92	70-130	25
Toluene	39776-01	<0.50	40.0	40.0	39.1	38.8	ug/L	EPA 8260B	8/26/04	97.8	96.9	0.851	70-130	25
Tert-Butanol	39776-01	<5.0	200	200	180	185	ug/L	EPA 8260B	8/26/04	90.0	92.5	2.77	70-130	25
Methyl-t-Butyl Ether	39776-01	<0.50	40.0	40.0	33.7	34.4	ug/L	EPA 8260B	8/26/04	84.2	86.0	2.04	70-130	25



Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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



Report Number : 39728

Date : 8/27/2004

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	8/21/04	97.7	70-130
Toluene	40.0	ug/L	EPA 8260B	8/21/04	98.7	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/21/04	98.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/21/04	106	70-130
Benzene	40.0	ug/L	EPA 8260B	8/21/04	97.3	70-130
Toluene	40.0	ug/L	EPA 8260B	8/21/04	98.0	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/21/04	99.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/21/04	93.6	70-130
Benzene	40.0	ug/L	EPA 8260B	8/26/04	107	70-130
Toluene	40.0	ug/L	EPA 8260B	8/26/04	98.1	70-130
Tert-Butanol	200	ug/L	EPA 8260B	8/26/04	93.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	8/26/04	86.6	70-130

KIFF ANALYTICAL, LLC

Approved By:

Joel Kiff

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



# Analysis Summary

Report Number : 39728

Date : 8/27/2004

Attention : Richard Munsch  
 RDM Environmental  
 1704 Via Riata  
 Roseville, CA 95747

Project Name : Tesoro Station 67107  
 Project Number : 67107

Sample Name		H2O - Inf		DAT - Out		MID - 1		MID - 2		H2O - Eff		
Sample Date		8/17/2004		8/17/2004		8/17/2004		8/17/2004		8/17/2004		
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Toluene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Total Xylenes	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	66	0.50	45	0.50	ND	0.50	ND	0.50	ND
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L	50	ND	50	ND	50	ND	50	ND	50	ND
Toluene - d8 (Surr)	EPA 8260B	%		98.9		91.8		98.6		96.8		97.2
4-Bromofluorobenzene (Surr)	EPA 8260B	%		90.7		107		93.3		94.2		93.8

MRL = Method Reporting Limit  
 ND = Not Detected

Approved By,

Joel Kiff

**C**alscience  
**E**nvironmental  
**L**aboratories, Inc.

August 27, 2004

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

Subject: **Calscience Work Order No.: 04-08-1237**  
**Client Reference: Tesoro Station 67107**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/21/2004 and analyzed in accordance with the attached chain-of-custody.

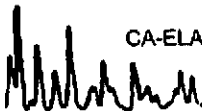
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows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

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

Sincerely,



Calscience Environmental  
Laboratories, Inc.  
Stephen Nowak  
Project Manager



**Analytical Report**

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

Date Received:  
 Work Order No:

08/21/04  
 04-08-1237

Project: Tesoro Station 67107

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix
H2O - Eff	04-08-1237-1	08/17/04	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Suspended	1.4	1.0	1		mg/L	N/A	08/24/04	EPA 160.2
Chemical Oxygen Demand	120	5	1		mg/L	N/A	08/24/04	EPA 410.4

<b>Method Blank</b>				N/A	Aqueous			
---------------------	--	--	--	-----	---------	--	--	--

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	N/A	08/24/04	EPA 410.4

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



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

Date Received:  
Work Order No:

08/21/04  
04-08-1237

Project: Tesoro Station 67107

Matrix: Aqueous

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc.	DUP Conc	RPD	RPD CL	Qualifiers
Chemical Oxygen Demand	EPA 410.4	04-08-1282-2	08/24/04	890	880	1	0-25	
Solids, Total Suspended	EPA 160.2	04-08-1131-1	08/24/04	50	54	8	0-25	


RPD - Relative Percent Difference , CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

Work Order Number: 04-08-1237

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





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

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

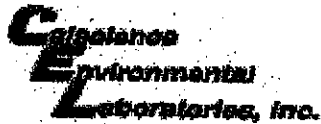
04-08-1237

Project Contact (Hardcopy or PDF to): Joel Kiff	Geotracker COELT EDD REPORT? ___ YES    X NO	Chain-of-Custody Record and Analysis Request
--	---	--

Company/Address: Kiff Analytical, LLC	Sampling Company Log Code:	Analysis Request	Date Due:	For Lab Use Only		
Phone No.:	FAX No.:				Global ID:	
Project Number: 67107	P.O. No.:					EDF Deliverable to (Email Address):
	39728					
Project Name: Tesoro Station 67107		E-mail address: inbox@kiffanalytical.com				

Sample Designation	Sampling		Container					Preservative					Matrix			C.O.D.	TSS							
	Date	Time	Glass Jar	Poly	Amber	Sleeve	Tedlar	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	ICE	HCl	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	WATER	SOIL	AIR									
H <sub>2</sub> O - Eff	8/17/04	5:35	1	1				1		X			X			X	X						X	

Relinquished by: <i>DWTA - Kiff Analytical</i>	Date	Time	Received by:	Remarks:
Relinquished by:			Received by:	
Relinquished by: <i>Cal Overnight</i>	Date	Time	Received by Laboratory: <i>[Signature]</i>	
				Bill to:



WORK ORDER #: 04 - 08 - 1237

Cooler \_\_\_\_\_ of \_\_\_\_\_

### SAMPLE RECEIPT FORM

CLIENT: KIFF

DATE: 8/21/04

#### TEMPERATURE -- SAMPLES RECEIVED BY:

##### CALSCIENCE COURIER:

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

##### LABORATORY (Other than Calscience Courier):

- 3.9 °C Temperature blank.
- °C IR thermometer.
- Ambient temperature.

Initial: (PW)

#### CUSTODY SEAL INTACT:

Sample(s): \_\_\_\_\_ Cooler:  No (Not Intact): \_\_\_\_\_ Not Applicable (N/A): \_\_\_\_\_

Initial: (PW)

#### SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with custody papers.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on sample label(s).....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VOA vial(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initial: (PW)

#### COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_





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

Lab No. 39728

Page 1 of 1

Project Contact (Hardcopy or PDF To): Richard Munsch  
 California EDF Report?  Yes  No

**Chain-of-Custody Record and Analysis Request**

Company/Address: RPM Environmental  
 Recommended but not mandatory to complete this section:  
 Sampling Company Log Code: \_\_\_\_\_

**Analysis Request**

Phone No.: (911) 771-7098 FAX No.: (911) 771-4584  
 Global ID: \_\_\_\_\_

Project Number: 67107 P.D. No.: 67107  
 EDF Deliverable To (Email Address): \_\_\_\_\_

Project Name: Tesoro Station 67107  
 Sampler Signature: [Signature]

Project Address: San Lorenzo CA

Sample Designation	Sampling		40 ml VOA	Container		Preservative				Matrix			BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT	For Lab Use Only	
	Date	Time		SLEEVE	WATER	HCl	HNO <sub>3</sub>	ICE	NONE	SOIL																		
H <sub>2</sub> O - Inf	8/17/04	543	2							X							X											01
DAT - Out		541	2							X							X											02
MID-1		539	2							X							X											03
MID-2		537	2							X							X											04
H <sub>2</sub> O - Eff		535	2							X							X								XX			05

Sample Designation	Sampling		40 ml VOA	Container		Preservative				Matrix			BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT	For Lab Use Only	
	Date	Time		SLEEVE	WATER	HCl	HNO <sub>3</sub>	ICE	NONE	SOIL																		
H <sub>2</sub> O - Inf	8/17/04	543	2							X							X											01
DAT - Out		541	2							X							X											02
MID-1		539	2							X							X											03
MID-2		537	2							X							X											04
H <sub>2</sub> O - Eff		535	2							X							X								XX			05

Relinquished by: [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date: 08/20/04 Time: 10:59 Received by: [Signature] KIFF ANALYTICAL  
 Remarks: STAT  
 Bill to: Tesoro Petroleum



Report Number : 40228

Date : 9/27/2004

Richard Munsch  
RDM Environmental  
1704 Via Riata  
Roseville, CA 95747

Subject : 5 Water Samples  
Project Name : Tesoro Station 67107  
Project Number : 67107  
P.O. Number : 67107

Dear Mr. Munsch,

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

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

Sincerely,



Joel Kiff



Report Number : 40228

Date : 9/27/2004

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : GW-Inf

Matrix : Water

Lab Number : 40228-01

Sample Date :9/18/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Total Xylenes	0.68	0.50	ug/L	EPA 8260B	9/23/2004
Methyl-t-butyl ether (MTBE)	56	0.50	ug/L	EPA 8260B	9/23/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/23/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/23/2004
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	9/23/2004
4-Bromofluorobenzene (Surr)	84.9		% Recovery	EPA 8260B	9/23/2004

Approved By:

Joel Kiff



Report Number : 40228

Date : 9/27/2004

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : **GW-DAT-Eff**

Matrix : Water

Lab Number : 40228-02

Sample Date :9/18/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	9/24/2004
<b>Toluene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	9/24/2004
<b>Ethylbenzene</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	9/23/2004
<b>Total Xylenes</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	9/24/2004
<b>Methyl-t-butyl ether (MTBE)</b>	<b>35</b>	0.50	ug/L	EPA 8260B	9/24/2004
<b>Diisopropyl ether (DIPE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	9/24/2004
<b>Ethyl-t-butyl ether (ETBE)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	9/24/2004
<b>Tert-amyl methyl ether (TAME)</b>	<b>&lt; 0.50</b>	0.50	ug/L	EPA 8260B	9/24/2004
<b>Tert-Butanol</b>	<b>&lt; 5.0</b>	5.0	ug/L	EPA 8260B	9/24/2004
<b>TPH as Gasoline</b>	<b>&lt; 50</b>	50	ug/L	EPA 8260B	9/24/2004
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	9/24/2004
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	9/24/2004

Approved By:

  
Joel Kiff



Report Number : 40228

Date : 9/27/2004

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Sample : **GW-MID1**

Matrix : Water

Lab Number : 40228-03

Sample Date :9/18/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
<b>Benzene</b>	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
<b>Toluene</b>	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
<b>Ethylbenzene</b>	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
<b>Total Xylenes</b>	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
<b>Methyl-t-butyl ether (MTBE)</b>	0.56	0.50	ug/L	EPA 8260B	9/23/2004
<b>Diisopropyl ether (DIPE)</b>	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
<b>Ethyl-t-butyl ether (ETBE)</b>	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
<b>Tert-amyl methyl ether (TAME)</b>	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
<b>Tert-Butanol</b>	< 5.0	5.0	ug/L	EPA 8260B	9/23/2004
<b>TPH as Gasoline</b>	< 50	50	ug/L	EPA 8260B	9/23/2004
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	9/23/2004
4-Bromofluorobenzene (Surr)	81.2		% Recovery	EPA 8260B	9/23/2004

Approved By:

  
Joel Kiff



Report Number : 40228

Date : 9/27/2004

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : GW-MID2

Matrix : Water

Lab Number : 40228-04

Sample Date :9/18/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/24/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/24/2004
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	9/24/2004
4-Bromofluorobenzene (Surr)	98.0		% Recovery	EPA 8260B	9/24/2004

Approved By:

  
Joel Kiff



Report Number : 40228

Date : 9/27/2004

Project Name : Tesoro Station 67107

Project Number : 67107

Sample : GW-Eff

Matrix : Water

Lab Number : 40228-05

Sample Date :9/18/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/23/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/23/2004
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	9/23/2004
4-Bromofluorobenzene (Surr)	80.8		% Recovery	EPA 8260B	9/23/2004

Approved By:

Joel Kiff

Report Number : 40228

Date : 9/27/2004

**QC Report : Method Blank Data**

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/24/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/24/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/24/2004
Toluene - d8 (Surr)	99.0		%	EPA 8260B	9/24/2004
4-Bromofluorobenzene (Surr)	105		%	EPA 8260B	9/24/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/23/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/23/2004
Toluene - d8 (Surr)	102		%	EPA 8260B	9/23/2004
4-Bromofluorobenzene (Surr)	83.6		%	EPA 8260B	9/23/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/23/2004
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/23/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/23/2004
Toluene - d8 (Surr)	109		%	EPA 8260B	9/23/2004
4-Bromofluorobenzene (Surr)	82.4		%	EPA 8260B	9/23/2004

Approved By:  Joel Kiff



Report Number : 40228

Date : 9/27/2004

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : Tesoro Station 67107

Project Number : 67107

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	40252-05	<0.50	40.0	40.0	38.7	37.0	ug/L	EPA 8260B	9/24/04	96.7	92.5	4.43	70-130	25
Toluene	40252-05	<0.50	40.0	40.0	38.6	37.3	ug/L	EPA 8260B	9/24/04	96.4	93.4	3.20	70-130	25
Tert-Butanol	40252-05	<5.0	200	200	193	191	ug/L	EPA 8260B	9/24/04	96.5	95.7	0.885	70-130	25
Methyl-t-Butyl Ether	40252-05	<0.50	40.0	40.0	39.6	39.5	ug/L	EPA 8260B	9/24/04	99.0	98.8	0.233	70-130	25
Benzene	40226-03	<0.50	40.0	40.0	39.7	38.6	ug/L	EPA 8260B	9/23/04	99.3	96.4	2.94	70-130	25
Toluene	40226-03	<0.50	40.0	40.0	39.4	38.2	ug/L	EPA 8260B	9/23/04	98.4	95.5	3.02	70-130	25
Tert-Butanol	40226-03	<5.0	200	200	182	202	ug/L	EPA 8260B	9/23/04	91.3	101	10.1	70-130	25
Methyl-t-Butyl Ether	40226-03	<0.50	40.0	40.0	38.6	38.5	ug/L	EPA 8260B	9/23/04	96.5	96.4	0.131	70-130	25
Benzene	40251-01	<0.50	40.0	40.0	39.8	39.6	ug/L	EPA 8260B	9/23/04	99.5	99.0	0.500	70-130	25
Toluene	40251-01	<0.50	40.0	40.0	37.7	39.2	ug/L	EPA 8260B	9/23/04	94.2	98.0	3.94	70-130	25
Tert-Butanol	40251-01	<5.0	200	200	172	206	ug/L	EPA 8260B	9/23/04	86.1	103	18.1	70-130	25
Methyl-t-Butyl Ether	40251-01	<0.50	40.0	40.0	38.9	38.3	ug/L	EPA 8260B	9/23/04	97.3	95.8	1.64	70-130	25



Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 40228

Date : 9/27/2004

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Tesoro Station 67107**

Project Number : **67107**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	9/24/04	100	70-130
Toluene	40.0	ug/L	EPA 8260B	9/24/04	100	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/24/04	95.5	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/24/04	90.6	70-130
Benzene	40.0	ug/L	EPA 8260B	9/23/04	99.2	70-130
Toluene	40.0	ug/L	EPA 8260B	9/23/04	98.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/23/04	87.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/23/04	99.2	70-130
Benzene	40.0	ug/L	EPA 8260B	9/23/04	100	70-130
Toluene	40.0	ug/L	EPA 8260B	9/23/04	98.7	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/23/04	84.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/23/04	96.2	70-130

KIFF ANALYTICAL, LLC

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

Approved By:

  
Joel Kiff



# Analysis Summary

Report Number : 40228

Date : 9/27/2004

Attention : Richard Munsch  
 RDM Environmental  
 1704 Via Riata  
 Roseville, CA 95747

Project Name : Tesoro Station 67107  
 Project Number : 67107

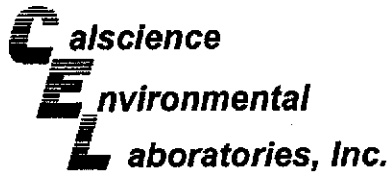
Sample Name		GW-Inf	GW-DAT-Eff		GW-MID1		GW-MID2		GW-Eff			
Sample Date		9/18/2004	9/18/2004		9/18/2004		9/18/2004		9/18/2004			
Analyte	Method	Units	MRL	Results	MRL	Results	MRL	Results	MRL	Results	MRL	Results
Benzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Toluene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Total Xylenes	EPA 8260B	ug/L	0.50	0.68	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Methyl-t-butyl ether (MTBE)	EPA 8260B	ug/L	0.50	56	0.50	35	0.50	0.56	0.50	ND	0.50	ND
Diisopropyl ether (DIPE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Ethyl-t-butyl ether (ETBE)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-amyl methyl ether (TAME)	EPA 8260B	ug/L	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND
Tert-Butanol	EPA 8260B	ug/L	5.0	ND	5.0	ND	5.0	ND	5.0	ND	5.0	ND
TPH as Gasoline	EPA 8260B	ug/L	50	ND	50	ND	50	ND	50	ND	50	ND
Toluene - d8 (Surr)	EPA 8260B	%		104		98.8		103		99.8		98.4
4-Bromofluorobenzene (Surr)	EPA 8260B	%		84.9		102		81.2		98.0		80.8

MRL = Method Reporting Limit  
 ND = Not Detected

Approved By,

Joel Kiff

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



September 27, 2004

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

Subject: **Calscience Work Order No.: 04-09-1266**  
Client Reference: **Tesoro Station 67107**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/22/2004 and analyzed in accordance with the attached chain-of-custody.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak", is written over a horizontal line.

Calscience Environmental  
Laboratories, Inc.  
Stephen Nowak  
Project Manager

A handwritten signature in black ink, appearing to read "Stephen Nowak", is written over a horizontal line.

**Analytical Report**

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

Date Received: 09/22/04  
 Work Order No: 04-09-1266

Project: Tesoro Station 67107

Page 1 of 1

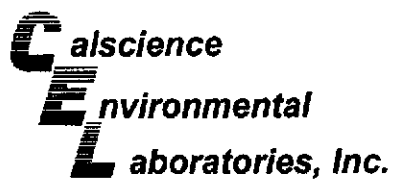
Client Sample Number	Lab Sample Number	Date Collected	Matrix
GW-Eff	04-09-1266-1	09/18/04	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Solids, Total Suspended	18	1.0	1		mg/L	N/A	09/22/04	EPA 160.2
Chemical Oxygen Demand	10	5	1		mg/L	N/A	09/23/04	EPA 410.4

<b>Method Blank</b>			N/A		Aqueous			
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chemical Oxygen Demand	ND	5.0	1		mg/L	N/A	09/23/04	EPA 410.4

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



Quality Control - Duplicate

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

Date Received: 09/22/04  
Work Order No: 04-09-1266

Project: Tesoro Station 67107

Matrix: Aqueous

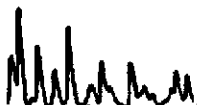
Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc.	DUP Conc.	RPD	RPD CL	Qualifiers
Chemical Oxygen Demand	EPA 410.4	04-09-1214-1	09/23/04	300	300	2	0-25	
Solids, Total Suspended	EPA 160.2	04-09-1293-1	09/22/04	ND	ND	NA	0-25	

RPD - Relative Percent Difference, CL - Control Limit

Work Order Number: 04-09-1266

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





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

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

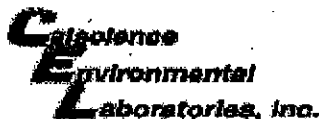
Lab No.

1256

Page 1 of 1

Project Contact (Hardcopy or PDF to): Joel Kiff				Geotracker COELT EDD REPORT? ___ YES    X NO										Chain-of-Custody Record and Analysis Request															
Company/Address: Kiff Analytical, LLC				Sampling Company Log Code:										Analysis Request										Date Due:					
Phone No.:		FAX No.:		Global ID:																				September 28, 2004	For Lab Use Only				
Project Number: 67107		P.O. No.: 40228		EDF Deliverable to (Email Address):																									
Project Name: Tesoro Station 67107				E-mail address: inbox@kiffanalytical.com																									
Project Address:				Sampling		Container					Preservative					Matrix													
Sample Designation				Date	Time	Glass Jar	Poly	Amber	Sleeve	Tedlar	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	ICE	HCl	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	WATER	SOIL	AIR	C.O.D	TSS									
GW-Eff				9/18/04	2:00		1	1											X	X									
Relinquished by:				Date	Time	Received by:										Remarks:													
<i>Joel Kiff</i>				9/22/04	1900	<i>[Signature]</i>																							
Relinquished by:				Date	Time	Received by:																							
Relinquished by:				Date	Time	Received by Laboratory:										Bill to:													
				9-22-4	0840	<i>[Signature]</i>																							





WORK ORDER #: 04-09-1266

Cooler 1 of 1

### SAMPLE RECEIPT FORM

CLIENT: KIFF

DATE: 09/22/04

#### TEMPERATURE - SAMPLES RECEIVED BY:

##### CALSCIENCE COURIER:

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

##### LABORATORY (Other than Calscience Courier):

- 3-1 °C Temperature blank.
- °C IR thermometer.
- Ambient temperature.

Initial: Ta

#### CUSTODY SEAL INTACT:

Sample(s): \_\_\_\_\_ Cooler: 1 No (Not Intact) : \_\_\_\_\_ Not Applicable (N/A): \_\_\_\_\_

Initial: Ta

#### SAMPLE CONDITION:

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

Initial: Ta

#### COMMENTS:

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2795 2nd Street, Suite 300  
 Davis, CA 95616  
 Lab: 530.297.4800  
 Fax: 530.297.4808

Lab No. 40228 Page 1 of 1

Project Contact (Hardcopy or PDF To): Richard Muncel  
 California EDF Report?  Yes  No

Company/Address: PRM Environmental  
 Recommended but not mandatory to complete this section:  
 Sampling Company Log Code: \_\_\_\_\_

Phone No.: (916) 771-2018 FAX No.: (916) 771-4507  
 Global ID: \_\_\_\_\_

Project Number: 67107 P.O. No.: 67107  
 EDF Deliverable To (Email Address): \_\_\_\_\_

Project Name: Tecoro Station 67107  
 Sampler Signature: [Signature]

Project Address: San Lorenzo, CA

Sample Designation	Sampling		Container			Preservative				Matrix		
	Date	Time	40 ml VOA	SLEEVE	GLASS	HCl	HNO <sub>3</sub>	ICE	NONE	MIXED	WATER	SOIL
GW-Inf	9/18/04	2:00	2			X						
GW-DAT-Eft	9/18/04	2:15	2			X						
GW-MID1	9/18/04	2:10	2			X						
GW-MID2	9/18/04	2:05	2			X						
GW-Eft	9/18/04	2:01	2	X		X			X			

**Chain-of-Custody Record and Analysis Request**

**Analysis Request**

BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2)	TOTAL (X) W.E.T. (X)	TAT
					X	X								
					X	X								
					X	X								
					X									

Relinquished by: [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date: 092104 Time: 1204 Received by Laboratory: Robert C. Peltier KIFF ANALYTICAL

Remarks: STAT

Bill to: Tecoro Petroleum Rob Pinnon