RO - 216

Alameda County
MAY 21 2003
Environmental Health

Kelleher & Associates
Environmental Management

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May 15, 2003

Alameda County
MAY 21 2003
Environmental Health

Scott Seery
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502-6577

Site: TESORO STATION # 67106 (former Beacon # 3720), 1088 Marina Blvd, San Leandro, CA
Re: Technical report submittal

Dear Mr. Seery:

Please find enclosed herewith a copy of the following technical report prepared by RDM, Roseville, CA:

Quarterly Groundwater Monitoring and Remediation Status Report First Quarter 2003 dated May 12, 2003.

As an authorized representative of Tesoro Petroleum and Refining Company (Tesoro), I have reviewed the enclosed report and declare under penalty of perjury that to the best of my knowledge the information contained in the report is true and correct.

The report covers the groundwater-monitoring event Doulas Environmental conducted on February 20, 2003 during which they sounded, purged and sampled nine wells and provided for certified analyses of total petroleum hydrocarbon constituents, BTEX, and MTBE using EPA Method 8260B. The next groundwater-monitoring event is scheduled for the first quarter 2003.

The report also covers operation of sparging-enhanced soil vapor extraction (SESVE) remedial processes during the first quarter 2003. During this period the SESVE system extracted 16 pounds of gasoline vapors. Based on the collective groundwater monitoring data, RDM is recommending the conduct of additional feasibility studies with an eye toward improving remediation system performance and accelerating the attainment of cleanup objectives.

Sincerely,

Brian T. Kelleher
Project Coordinator
Enclosure: CC with enclosure: Robert Donovan, Tesoro; Glenn Dembroff, Ultramar; Richard Munsch, RDM (cover letter only).

Environmental

1704 Via Riata, Roseville, CA 95747 Tel: (916) 771-7098, FAX :(916) 771-4584

May 12, 2003

Mr. Rob Donovan
Tesoro Petroleum Companies
3450 S. 344th Way Suite 100
Auburn, WA 98001-5931

Alameda County
MAY 21 2003
Environmental Health

Subject: *Quarterly Ground Water Monitoring and Remediation System Status Report, **First Quarter 2003***
Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California
RDM Project No. 00-67106

Dear Mr. Donovan:

On Behalf of Tesoro Refining and Marketing Company, RDM Environmental (RDM) has prepared the following quarterly ground water monitoring and remediation system status report for the subject site. This report describes quarterly ground water monitoring and remediation system status for the **First Quarter 2003**.

Work Performed During the First Quarter 2003:

- Doulos Environmental Inc. performed ground water sampling on **February 20, 2003.**
- RDM continued operation and maintenance on the remediation system.

STATUS OF GROUND WATER MONITORING

Cumulative ground water sampling information is tabulated in Table 1. A site topographic map, site map, and ground water elevation contour map are shown as Figures 1 through 3, respectively. Analytical isoconcentration maps are presented as Figures 4 through 6. 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. Historical ground water monitoring data is included in Enclosure D.

- 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. 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 **First Quarter 2003** on:
  - **January 3 and 29, 2003**
  - **February 18 and 20, 2003**
  - **March 4 and 20, 2003**

Ground Water Extraction System Performance:

- The ground water treatment system did not operate during the **First Quarter 2003.**
- During the **First Quarter 2003**, the ground water system processed **Zero (0)** gallons. The ground water treatment system was shut off in March 1998 at which time the ground water system had processed approximately **228,500** gallons.
- Monitoring wells MW-4, MW-5 and MW-9 are used as recovery wells.

Soil Vapor Extraction System Performance:

- The SVE system operated continuously during the **First Quarter 2003.**
- During the **First Quarter 2003**, the SVE system removed approximately **16** pounds of vapor equivalent gasoline.
- As of **March 20, 2003,** the SVE system has removed approximately **2,587** pounds (**424** gallons) of vapor equivalent gasoline.
- Soil vapor extraction is conducted on MW-1 through MW-5, MW-8, MW-9 and vapor well VW-1.
- The SVE analytical results are included in Table 2 and the SVE performance data is included in Table 3. Remediation system analytical results are included in Enclosure E.

Air Sparging System Performance:

- The air sparging system operated continuously during the **First Quarter 2003.**
- Air sparging system is connected to sparge points SP-1 through SP-6.

CONCLUSIONS/RECOMMENDATIONS

RDM recommends continued operation of the SVE and air sparge system and quarterly ground water monitoring. In view of the elevated levels of dissolved BTEX, TPHg and MTBE concentrations in MW-1 thru MW-5, RDM recommends the conducting of additional feasibility studies and pilot testing to develop an optimal strategy for remediation of the ground water. The alternatives that will be evaluated include re-commissioning the existing ground water system, ozone sparging, and enhanced bioremediation.

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 forward to the following people.

Mr. Scott Seery
Alameda County Health Care Agency
Department of Environmental Health
1131 Harbor Parkway, Room 250
Alameda, CA 94502-6577

Mr. Paul Zolfarelli
Environmental Compliance Inspector
City of San Leandro
3000 Davis Street
San Leandro, CA 94577

Case Worker
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

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 (67106 1Q GWM 2-20-03)

Enclosures:

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

TABLE 1

GROUND WATER MONITORING DATA

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

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-1	03/12/98	33.10	11.09	22.01	<0.5	<0.5	5.0	2.8	100	<5.0	NA	No sheen
	05/28/98		11.36	21.74	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	08/31/98		12.61	20.49	<0.5	<0.5	6.4	1.4	130	<5.0	NA	No sheen
	11/19/98		13.84	19.26	0.75	<0.5	<0.5	3.0	120	<5.0	NA	No sheen
	03/15/99		11.95	21.15	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/07/99		13.45	19.65	1.6	1.9	230	110	5,200	<5.0	NA	No sheen
	09/07/99		13.10	20.00	1.0	<0.5	22	15	490	<5.0	NA	No sheen
	12/13/99		14.29	18.81	<2.5	<2.5	170	110	4,100	<25	NA	No sheen
	03/08/00		11.22	21.88	<0.5	<0.5	21	7.7	1,200	150	NA	No sheen
	06/12/00		12.85	20.25	1.5	0.9	160	98	3,000	34	NA	No sheen
	11/15/00		14.19	18.91	<20	<20	470	390	8,500	14,000	NA	No sheen
	02/27/01		12.35	20.75	5.4	2.6	260	190	6,100	4,300	NA	No sheen
	05/22/01		14.18	18.92	8.9	13	1,100	1,300	21,000	2,300	NA	No sheen
	09/05/01		13.70	19.10	<2.0	3.6	600	850	12,000	93	NA	No sheen
	11/07/01		14.25	18.85	<5.0	<5.0	1,300	1,600	23,000	87	NA	No sheen
	02/11/02	35.47	13.05	22.42	<0.5	<0.5	140	150	4,500	18	NA	No sheen
	06/03/02		13.31	22.16	<2.5	<2.5	520	460	12,000	12	NA	No sheen
	08/06/02		13.75	21.72	<0.5	<0.5	710	580	22,000	15	NA	No sheen
	11/14/02		14.10	21.37	<5.0	<5.0	300	250	16,000	8.1	ND	No sheen
	02/20/03		12.80	22.67	<1.5	<1.5	130	89	7,300	9.3	ND	No sheen
MW-2	03/12/98	32.80	10.92	21.88	32	1.0	12	6.5	440	20	NA	No sheen
	05/28/98		10.41	22.39	<0.5	<0.5	<0.5	<0.5	<50	27	NA	No sheen
	08/31/98		12.29	20.51	9.3	0.95	4.9	8.8	270	20	NA	No sheen
	11/19/98		13.47	19.33	16	0.72	<0.5	4.3	180	7.4	NA	No sheen
	03/15/99		11.95	20.85	12	3.5	59	840	2,400	10	NA	No sheen
	06/07/99		13.11	19.69	21	0.99	6.9	10	690	6.1	NA	No sheen
	09/07/99		12.92	19.88	7.8	1.2	42	100	610	<5.0	NA	No sheen
	12/13/99		13.96	18.84	26	0.93	52	96	3,000	<5.0	NA	No sheen
	03/08/00		10.87	21.93	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/12/00		12.53	20.27	51	17	170	320	5,500	18	NA	No sheen
	11/15/00		13.96	18.84	75	48	1,200	2,800	16,000	19,000	NA	No sheen
	02/27/01		12.29	20.51	54	24	320	870	10,000	6,000	NA	No sheen
	05/22/01		15.51	17.29	12	5.0	79	100	2,400	3,500	NA	No sheen
	09/05/01		13.75	19.05	120	180	1,500	5,100	34,000	400	NA	No sheen
	11/07/01		13.99	18.81	87	170	1,400	3,700	32,000	870	NA	No sheen
	02/11/02	35.11	12.98	22.13	170	250	1,600	4,700	34,000	390	NA	No sheen
	06/03/02		13.24	21.87	130	260	1,700	5,100	29,000	110	NA	No sheen
	08/06/02		13.73	21.38	110	240	1,700	4,700	34,000	84	NA	No sheen
	11/14/02		13.55	21.56	51	150	1,300	3,600	35,000	39	ND	No sheen
	02/20/03		11.80	23.31	67	130	1,100	2,800	23,000	71	ND	No sheen

TABLE 1

GROUND WATER MONITORING DATA

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

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-3	03/12/98	32.30	10.81	21.49	0.67	<0.5	7.1	3.4	1,200	7.3	NA	No sheen
	05/28/98		11.45	20.85	<0.5	0.5	<0.5	<0.5	350	<5.0	NA	No sheen
	08/31/98		12.21	20.09	<0.5	0.89	0.69	<0.5	240	<5.0	NA	No sheen
	11/19/98		13.26	19.04	5.3	0.72	0.86	4.2	440	<5.0	NA	No sheen
	03/15/99		11.89	20.41	3.3	1.3	0.77	<0.5	410	<5.0	NA	No sheen
	06/07/99		12.91	19.39	<0.5	2.0	<0.5	0.66	680	<5.0	NA	No sheen
	09/07/99		12.81	19.49	<0.5	0.62	<0.5	8.7	150	12	NA	No sheen
	12/13/99		13.75	18.55	<0.5	0.52	<0.5	1.0	830	<5.0	NA	No sheen
	03/08/00		11.39	20.91	0.58	<0.5	0.77	<0.5	960	<5.0	NA	No sheen
	06/12/00		12.58	19.72	1.7	<0.5	46	6.3	1,700	<5.0	NA	No sheen
	11/15/00		13.85	18.45	<200	<200	<200	<200	<20,000	84,000	NA	No sheen
	02/27/01		12.22	20.08	98	<20	130	30	3,500	16,000	NA	No sheen
	05/22/01		13.66	18.64	41	<20	20	<20	<2,000	5,800	NA	No sheen
	09/05/01		13.41	18.89	9.9	1.5	49	8.2	5,300	430	NA	No sheen
	11/07/01		13.85	18.45	9.4	1.8	47	8.8	6,500	1,600	NA	No sheen
	02/11/02	34.84	12.86	21.98	8.9	<2.0	14	<2.0	2,400	530	NA	No sheen
	06/03/02		13.10	21.74	13	0.77	19	0.94	2,100	110	NA	No sheen
	08/06/02		13.52	21.32	25	2.5	12	1.1	2,800	120	NA	No sheen
	11/14/02		13.49	21.35	29	0.89	3.7	<0.5	2,200	420	1.1[b], 19[c]	No sheen
	02/20/03		12.92	21.92	2.5	<0.5	<0.5	<0.5	2,400	340	13[c]	No sheen
MW-4	03/12/98	32.90	11.31	21.59	2,200	1,500	630	3,000	14,000	440	NA	No sheen
	05/28/98		10.40	22.50	<0.5	0.75	0.68	6.9	67	26	NA	No sheen
	08/31/98		12.54	20.36	1.8	2.5	0.65	3.4	<50	<5.0	NA	No sheen
	11/19/98		13.99	18.91	<0.5	<0.5	<0.5	0.61	<50	17	NA	No sheen
	03/15/99		12.06	20.84	1.2	1.6	0.76	4.5	160	9.3	NA	No sheen
	06/07/99		13.57	19.33	210	370	350	2,000	5,800	<20	NA	No sheen
	09/07/99		10.30	22.60	2.2	2.8	4.8	25	130	12	NA	No sheen
	12/13/99		14.18	18.72	1.3	1.0	1.2	4.8	<50	12	NA	No sheen
	03/08/00		11.77	21.13	78	200	160	750	3,700	11	NA	No sheen
	06/12/00		13.47	19.43	<0.5	<0.5	<0.5	<0.5	<50	24	NA	No sheen
	11/15/00		14.33	18.57	12	38	28	130	710	1,300	NA	No sheen
	02/27/01		14.25	18.65	67	300	310	1,400	6,500	1,000	NA	No sheen
	05/22/01		13.99	18.91	2.1	5.6	4.8	20	130	350	NA	No sheen
	09/05/01		15.75	17.15	110	670	250	1,300	6,200	600	NA	No sheen
	11/07/01		16.10	16.80	40	270	180	940	4,100	110	NA	No sheen
	02/11/02	35.33	15.04	20.29	91	590	620	3,000	14,000	350	NA	No sheen
	06/03/02		13.61	21.72	69	390	190	1,100	4,300	240	NA	No sheen
	08/06/02		15.01	20.32	100	690	570	2,900	13,000	170	NA	No sheen
	11/14/02		13.98	21.35	65	380	550	3,400	20,000	130	ND	No sheen
	02/20/03		13.33	22.00	57	240	650	3,700	18,000	98	ND	No sheen

TABLE 1

GROUND WATER MONITORING DATA

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

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-5	03/12/98	32.70	11.11	21.59	2,600	160	470	2,200	12,000	<250	NA	No sheen
	05/28/98		10.92	21.78	480	99	160	730	4,700	<250	NA	No sheen
	08/31/98		12.79	19.91	200	14	55	220	1,400	180	NA	No sheen
	11/19/98		13.39	19.31	1.4	<0.5	<0.5	<0.5	<50	39	NA	No sheen
	03/15/99		11.71	20.99	320	17	290	780	3,400	33	NA	No sheen
	06/07/99		13.26	19.44	220	8.9	240	290	3,200	<25	NA	No sheen
	09/07/99		9.70	23.00	8.5	<0.5	8.5	12	140	38	NA	No sheen
	12/13/99		14.06	18.64	<0.5	<0.5	<0.5	13	140	<5.0	NA	No sheen
	03/08/00		11.80	20.90	0.66	<0.5	2.5	30	280	<5.0	NA	No sheen
	06/12/00		12.99	19.71	22	1.2	79	170	2,700	6.4	NA	No sheen
	11/15/00		14.23	18.47	36	1.6	180	180	4,500	10	NA	No sheen
	02/27/01		12.66	20.04	33	1.6	160	220	2,800	110	NA	No sheen
	05/22/01		13.58	19.12	49	2.2	180	230	3,200	240	NA	No sheen
	09/05/01		14.05	18.65	28	1.0	100	100	2,400	560	NA	No sheen
	11/07/01		14.32	18.38	<2.0	<2.0	2.1	20	390	590	NA	No sheen
	02/11/02	35.09	13.31	21.78	19	<5.0	59	52	1,200	1,800	NA	No sheen
	06/03/02		13.55	21.54	44	<2.0	150	210	3,200	610	NA	No sheen
	08/06/02		14.10	20.99	42	<2.0	140	150	3,200	820	NA	No sheen
	11/14/02		14.03	21.06	29	1.3	94	100	2,900	560	100[c]	No sheen
	02/20/03		13.35	21.74	22	<1.0	81	77	2,900	270	170[c]	No sheen
MW-6	03/12/98	30.40	10.49	19.91	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	05/28/98		10.58	19.82	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	08/31/98		10.85	19.55	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	11/19/98		10.88	19.52	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	03/15/99		10.83	19.57	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/07/99		11.01	19.39	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	09/07/99		11.89	18.51	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	12/13/99		12.09	18.31	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	03/08/00		10.02	20.38	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/12/00		11.07	19.33	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	11/15/00		12.34	18.06	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	02/27/01		10.75	19.65	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	05/22/01		11.55	18.85	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	09/05/01		12.10	18.30	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	11/07/01		12.31	18.09	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	02/11/02	32.74	11.05	21.69	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	06/03/02		11.70	21.40	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	08/06/02		12.28	20.46	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	11/14/02		12.46	20.28	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	02/20/03		11.26	21.48	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen

TABLE 1

GROUND WATER MONITORING DATA

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

Monitoring Well	Date	Reference Elevation (ft) [a]	Depth to Ground Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Oxygenates (µg/L)	Comments
MW-7	03/12/98	31.20	10.14	21.06	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	05/28/98		10.93	20.27	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	08/31/98		12.01	19.19	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	11/19/98		12.54	18.66	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	03/15/99		10.94	20.26	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/07/99		12.05	19.15	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	09/07/99		12.67	18.53	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	12/13/99		12.73	18.47	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	03/08/00		10.90	20.30	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/12/00		12.61	18.59	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	11/15/00		13.06	18.14	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	02/27/01		11.85	19.35	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	05/22/01		12.31	18.89	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	09/05/01		12.85	18.35	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	11/07/01		12.75	18.45	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	02/11/02	33.64	NM	NC	NS	NS	NS	NS	NS	NS	NA	
	06/03/02		12.58	21.06	<0.5	<0.5	<0.5	<0.5	<50	0.95	NA	No sheen
	08/06/02		12.93	20.71	<0.5	<0.5	<0.5	<0.5	<50	<0.5	NA	No sheen
	11/14/02		13.04	20.60	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
	02/20/03		12.75	20.89	<0.5	<0.5	<0.5	<0.5	<50	<0.5	ND	No sheen
MW-8	03/12/98	33.80	11.81	21.99	1.4	<0.5	<0.5	<0.5	72	<5.0	NA	No sheen
	05/28/98		12.14	21.66	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	08/31/98		13.16	20.64	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	11/19/98		14.56	19.24	510	24	1,200	2,800	14,000	<5.0	NA	No sheen
	03/15/99		12.40	21.40	160	16	910	2,100	14,000	<50	NA	No sheen
	06/07/99		14.06	19.74	330	14	470	880	7,800	<50	NA	No sheen
	09/07/99		14.01	19.79	150	2.6	260	370	3,200	<5.0	NA	No sheen
	12/13/99		14.91	18.89	35	<5.0	280	730	6,700	<50	NA	No sheen
	03/08/00		11.85	21.95	<0.5	<0.5	<0.5	<0.5	<50	<5.0	NA	No sheen
	06/12/00		13.59	20.21	4.0	<0.5	4.9	2.1	140	<5.0	NA	No sheen
	11/15/00		14.94	18.86	2.0	<0.5	3.1	2.6	100	110	NA	No sheen
	02/27/01		NM	NC	NS	NS	NS	NS	NS	NS	NA	Tank Over Well
	05/22/01		NM	NC	NS	NS	NS	NS	NS	NS	NA	Tank Over Well
	09/05/01		14.68	19.12	160	<2.0	200	330	4,800	850	NA	No sheen
	11/07/01		15.10	18.70	1.1	<1.0	2.0	6.1	<100	590	NA	No sheen
	02/11/02	36.08	14.06	22.02	7.9	<5.0	16	22	<500	1,700	NA	No sheen
	06/03/02		14.25	21.83	20.0	<2.0	19	35	550	650	NA	No sheen
	08/06/02		14.55	21.53	220	<2.0	170	280	4,800	1,000	NA	No sheen
	11/14/02		14.73	21.35	250	<2.5	160	220	4,800	1,200	47[c]	No sheen
	02/20/03		13.81	22.27	17	<1.0	19	42	760	520	16[c]	No sheen

TABLE 1

GROUND WATER MONITORING DATA

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

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

a =Referenced to mean sea level.
b =tert-amyl methyl ether
c = tert-butanol
TPH = Total petroleum hydrocarbons.
MTBE = Methyl tertiary butyl ether.
µg/L = Micrograms per liter.
Oxygenates = methyl-t-butyl ether, diisopropyl ether, ethyl-t-butyl ether, tert-amyl methyl ether, tert-butanol, 1,2-dichloroethane, 1,2-dibromoethane

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

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

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

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

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

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Mid-Carbon	07/21/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/11/98	<0.05	0.06	<0.05	0.071	<5.0	NA
Mid-Carbon	08/11/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	08/11/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	09/10/98	0.16	0.46	0.062	0.20	16	NA
Mid-Carbon	09/10/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	09/10/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	09/23/98	0.16	0.32	<0.05	0.20	9.4	NA
Mid-Carbon	09/23/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	10/20/98	0.63	0.19	0.062	0.17	28	NA
Mid-Carbon	10/20/98	0.79	0.37	<0.05	0.088	48	NA
Effluent	10/20/98	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	11/26//97	0.13	0.43	0.072	0.35	9.2	NA
Influent	12/08/99	0.73	2.2	0.15	0.71	43	NA
Mid-Carbon	12/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/13/99	0.068	0.057	<0.05	0.095	6.5	NA
Mid-Carbon	01/13/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/13/99	<0.05	<0.05	<0.05	<0.05	5.4	NA
Effluent	01/28/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/10/99	1.1	1.2	0.071	0.28	56	NA
Mid-Carbon	02/10/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	02/10/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/10/99	0.070	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	03/10/99	0.069	<0.05	<0.05	<0.05	28	NA
Effluent	03/10/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	04/07/99	0.22	0.078	<0.05	0.060	17	NA

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

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

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	06/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	06/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	06/08/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	07/12/99	0.16	0.77	<0.05	0.18	11	NA
Mid-Carbon	07/12/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	07/12/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/09/99	0.092	1.0	0.20	0.94	12	NA
Mid-Carbon	08/09/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	08/09/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	09/07/99	0.069	0.41	0.07	0.38	16	NA
Mid-Carbon	09/07/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	09/07/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	10/12/99	0.96	8.6	1.1	4.7	150	NA
Mid-Carbon	10/12/99	<0.05	<0.05	<0.05	0.064	<5.0	NA
Effluent	10/12/99	<0.05	<0.05	<0.05	0.063	<5.0	NA
Influent	11/17/99	0.22	1.9	0.32	1.7	21	NA
Mid-Carbon	11/17/99	0.067	<0.05	<0.05	<0.05	<5.0	NA
Effluent	11/17/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/28/99	1.2	22	2.4	12	570	NA
Mid-Carbon	12/28/99	0.052	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/28/99	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/12/00	0.45	1.7	0.18	1.0	110	NA
Mid-Carbon	01/12/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/12/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/26/00	0.059	0.77	0.19	1.1	14	NA
Mid-Carbon	01/26/00	0.20	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/26/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/06/00	0.095	1.4	0.18	0.87	22	NA
Mid-Carbon	02/06/00	0.20	<0.05	<0.05	<0.05	<5.0	NA
Effluent	02/06/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/09/00	0.45	3.1	0.52	2.8	59	NA
Mid-Carbon	02/09/00	0.18	<0.05	<0.05	<0.05	<5.0	NA
Effluent	02/09/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/16/00	0.10	3.5	0.54	4.1	46	NA
Mid-Carbon	03/16/00	0.83	0.31	<0.05	<0.05	22	NA
Effluent	03/16/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

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

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	04/04/00	0.17	1.9	0.29	2.0	23	NA
Mid	04/04/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	04/04/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	05/12/00	<0.05	0.059	<0.05	0.091	<5.0	NA
Mid	05/12/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	05/12/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	06/19/00	<0.05	0.12	<0.05	<0.05	<5.0	NA
Mid	06/19/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	06/19/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	07/25/00	2.4	8.1	0.80	3.5	140	NA
Mid	07/25/00	<0.050	0.07	<0.050	<0.050	12	NA
Effluent	07/25/00	<0.05	<0.05	<0.05	<0.05	5.4	NA
Influent	07/25/00	2.4	8.1	0.80	3.5	140	NA
Mid	07/25/00	<0.050	0.07	<0.050	<0.050	12	NA
Effluent	07/25/00	<0.05	<0.05	<0.05	<0.05	5.4	NA
Influent	08/09/00	2.4	8.1	0.80	3.5	140	NA
Mid	08/09/00	<0.050	0.07	<0.050	<0.050	12	NA
Effluent	08/09/00	<0.05	<0.05	<0.05	<0.05	5.4	NA
Influent	09/06/00	2.4	8.1	0.80	3.5	140	NA
Mid	09/06/00	<0.050	0.07	<0.050	<0.050	12	NA
Effluent	09/06/00	<0.05	<0.05	<0.05	<0.05	5.4	NA
Influent	10/17/00	<0.05	0.075	<0.05	0.14	<5.0	NA
Mid	10/17/00	<0.050	0.07	<0.050	<0.050	<5.0	NA
Effluent	10/17/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	11/29/00	<0.05	0.24	0.08	0.29	<5.0	NA
Mid	11/29/00	<0.05	0.07	<0.05	0.18	<5.0	NA
Effluent	11/29/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/07/00	<0.05	0.13	<0.05	0.064	<5.0	NA
Mid	12/07/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/07/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

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

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	01/07/01	0.12	0.85	0.16	0.92	17	NA
Mid	01/07/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/07/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/23/01	0.19	1.6	0.19	1.1	32	NA
Mid	02/23/01	<0.05	0.07	<0.05	<0.05	<5.0	NA
Effluent	02/23/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/01/01	0.97	1.2	0.13	0.64	18	NA
Mid	03/01/01	<0.05	0.053	<0.05	<0.098	<5.0	NA
Effluent	03/01/01	<0.05	0.053	<0.05	0.13	<5.0	NA
Influent	10/17/2000	<0.05	0.075	<0.05	0.14	<5.0	NA
Mid-Carbon	10/17/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	10/17/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	11/29/2000	<0.05	0.24	0.08	0.29	<5.0	NA
Mid-Carbon	11/29/2000	<0.05	0.07	<0.05	0.18	<5.0	NA
Effluent	11/29/2000	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/07/00	<0.05	0.13	<0.05	0.064	<5.0	NA
Mid-Carbon	12/07/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/07/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/07/01	0.12	0.85	0.16	0.92	17	NA
Mid-Carbon	01/07/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/07/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/23/01	0.19	1.6	0.19	1.1	32	NA
Mid-Carbon	02/23/01	<0.05	0.07	<0.05	<0.05	<5.0	NA
Effluent	02/23/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/01/01	0.97	1.2	0.13	0.64	18	NA
Mid-Carbon	03/01/01	<0.05	0.053	<0.05	0.098	<5.0	NA
Effluent	03/01/01	<0.05	0.11	<0.05	0.13	<5.0	NA

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

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

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	04/18/01	0.1	0.63	0.12	0.56	18	NA
Mid-Carbon	04/18/01	<0.05	<0.05	<0.05	0.078	<5.0	NA
Effluent	04/18/01	<0.05	<0.05	<0.05	0.11	<5.0	NA
Influent	05/21/01	0.088	1.0	0.31	1.5	20	NA
Mid-Carbon	05/21/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	05/21/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	06/05/01	0.15	1.5	0.36	1.6	24	NA
Mid-Carbon	06/05/01	<0.05	0.053	<0.05	0.098	9.1	NA
Effluent	06/05/01	<0.05	<0.05	<0.05	<0.05	5.6	NA
Influent	07/16/01	<0.05	0.11	<0.05	0.14	<5.0	NA
Mid-Carbon	07/16/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	07/16/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/24/01	0.15	1.1	0.16	0.71	19	NA
Mid-Carbon	08/24/01	<0.05	0.055	<0.05	<0.05	<5.0	NA
Effluent	08/24/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	09/06/01	0.28	1.8	0.38	1.6	37	NA
Mid-Carbon	09/06/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	09/06/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	11/23/01	0.11	0.17	<0.05	0.10	<5.0	NA
Mid-Carbon	11/23/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	11/23/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/13/01	O.076	0.16	<0.05	0.063	<5.0	NA
Mid-Carbon	12/13/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/13/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/29/02	<0.05	0.12	<0.05	0.067	<5.0	NA
Mid-Carbon	01/29/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/29/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/20/02	0.054	0.12	<0.05	<0.05	<5.0	NA
Mid-Carbon	03/20/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	03/20/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA

TABLE 2

SVE SYSTEM ANALYTICAL RESULTS

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

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl-benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	04/18/02	<0.05	0.076	<0.05	0.092	<5.0	0.16
Mid-Carbon	04/18/02	<0.05	<0.05	<0.05	<0.05	<5.0	2.1
Effluent	04/18/02	<0.05	<0.05	<0.05	<0.05	<5.0	0.32
Influent	05/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	05/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	05/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	06/13/02	<0.05	0.07	<0.05	<0.05	<5.0	NA
Mid-Carbon	06/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	06/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	07/22/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	07/22/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	07/22/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	0.2
Mid-Carbon	08/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	0.94
Effluent	08/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	1.5
Influent	09/23/02	<0.05	0.19	<0.05	0.12	<5.0	1.2
Mid-Carbon	09/23/02	<0.05	<0.05	<0.05	<0.05	<5.0	1.9
Effluent	09/23/02	<0.05	<0.05	<0.05	<0.05	<5.0	2.0
Influent	10/21/02	<0.05	0.46	0.068	0.33	7.3	0.93
Mid-Carbon	10/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Effluent	10/21/02	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Influent	11/24/02	0.064	0.8	0.11	0.56	12	2.3
Mid-Carbon	11/24/02	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Effluent	11/24/02	<0.05	<0.05	<0.05	<0.05	<5.0	<0.1
Influent	12/20/02	0.18	2.6	0.34	1.4	27	4.7
Mid-Carbon	12/20/02	<0.05	<0.05	<0.05	<0.05	<5.0	0.63
Effluent	12/20/02	<0.05	0.13	<0.05	0.052	<5.0	0.24
Influent	01/29/03	<0.05	0.11	<0.05	0.071	<5.0	NA
Mid-Carbon	01/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/29/03	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/20/03	<0.05	0.19	<0.05	0.17	<5.0	0.61
Mid-Carbon	02/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	02/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Influent	03/20/03	<0.05	0.12	<0.05	0.11	<5.0	0.59
Mid-Carbon	03/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10
Effluent	03/20/03	<0.05	<0.05	<0.05	<0.05	<5.0	<0.10

TPH = Total petroleum hydrocarbons.
MTBE = methyl -t-butyl ether
mg/L = Micrograms per liter.
ppmv = parts per million by volume.

TABLE 3
SVE SYSTEM THROUGHPUT CALCULATIONS

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

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

TABLE 3
SVE SYSTEM THROUGHPUT CALCULATIONS

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

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

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

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

QUADRANGLE LOCATION

N

0 2000 FT

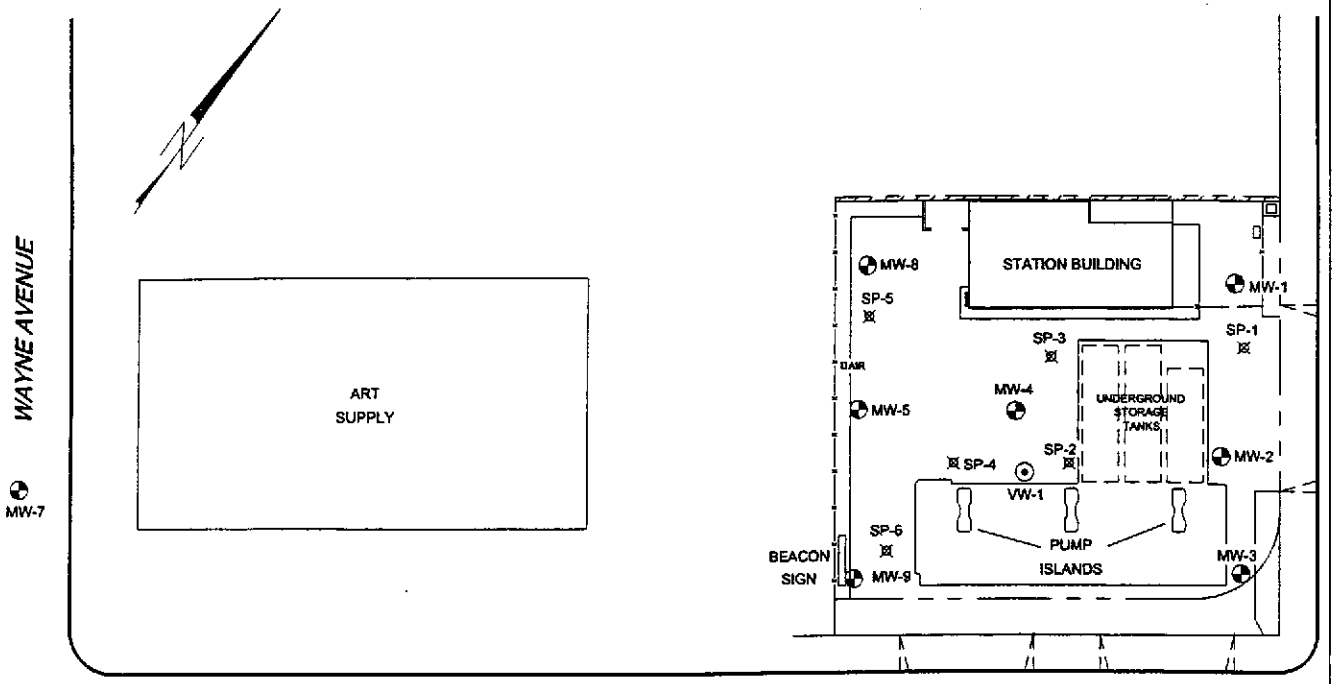
SCALE 1:24,000

FIGURE 1
SITE LOCATION MAP

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

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

R M
Environmental



LEGEND:

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

0 40 FT

SCALE

NOTES:

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

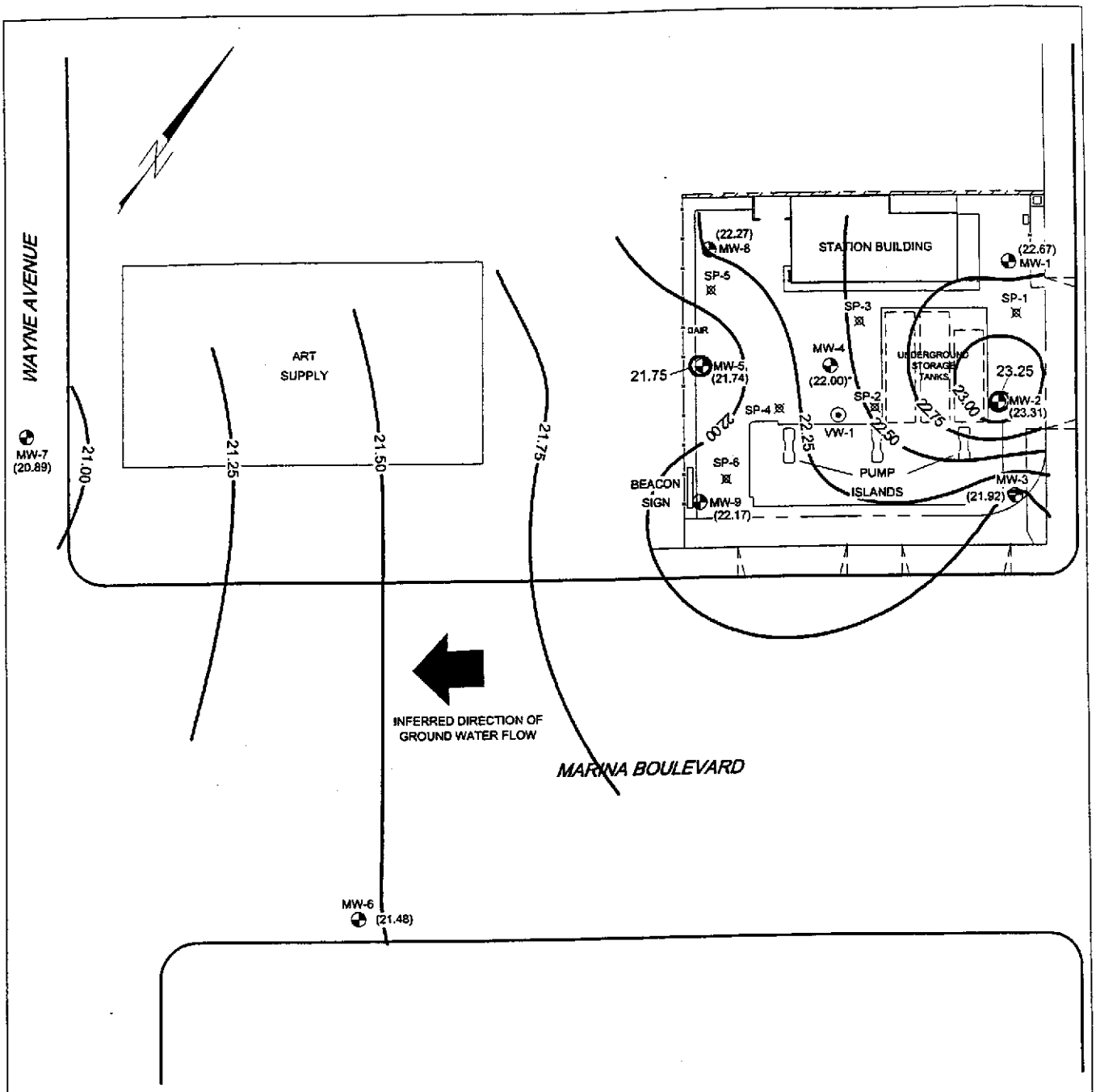
FIGURE 2

SITE MAP

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

PROJECT NO. 00-3720	DRAWN BY M.L. 12/18/01
FILE NO. 00-3720-6	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

R D M Environmental



LEGEND:

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

* NOT USED FOR CONTOUR CONSTRUCTION

0 40 FT

SCALE

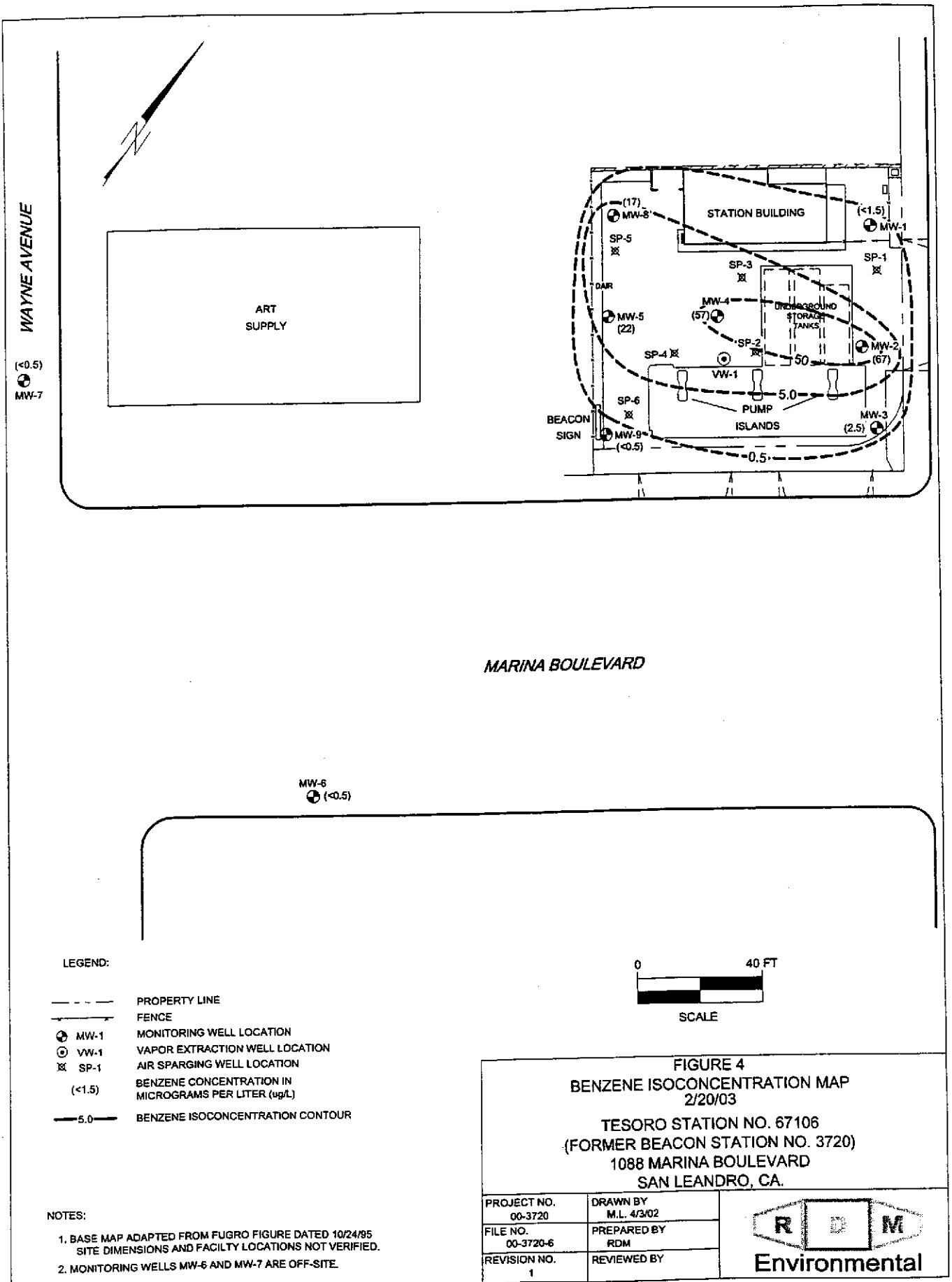
NOTES:

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

FIGURE 3
GROUND WATER ELEVATION CONTOUR MAP
2/20/03
TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 4/3/03
FILE NO. 00-3720-6	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

R M Environmental



LEGEND:

— - - —	PROPERTY LINE
—x—x—	FENCE
MW-1	MONITORING WELL LOCATION
VW-1	VAPOR EXTRACTION WELL LOCATION
SP-1	AIR SPARGING WELL LOCATION
(<1.5)	BENZENE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
—5.0—	BENZENE ISOCONCENTRATION CONTOUR

0 40 FT

SCALE

NOTES:

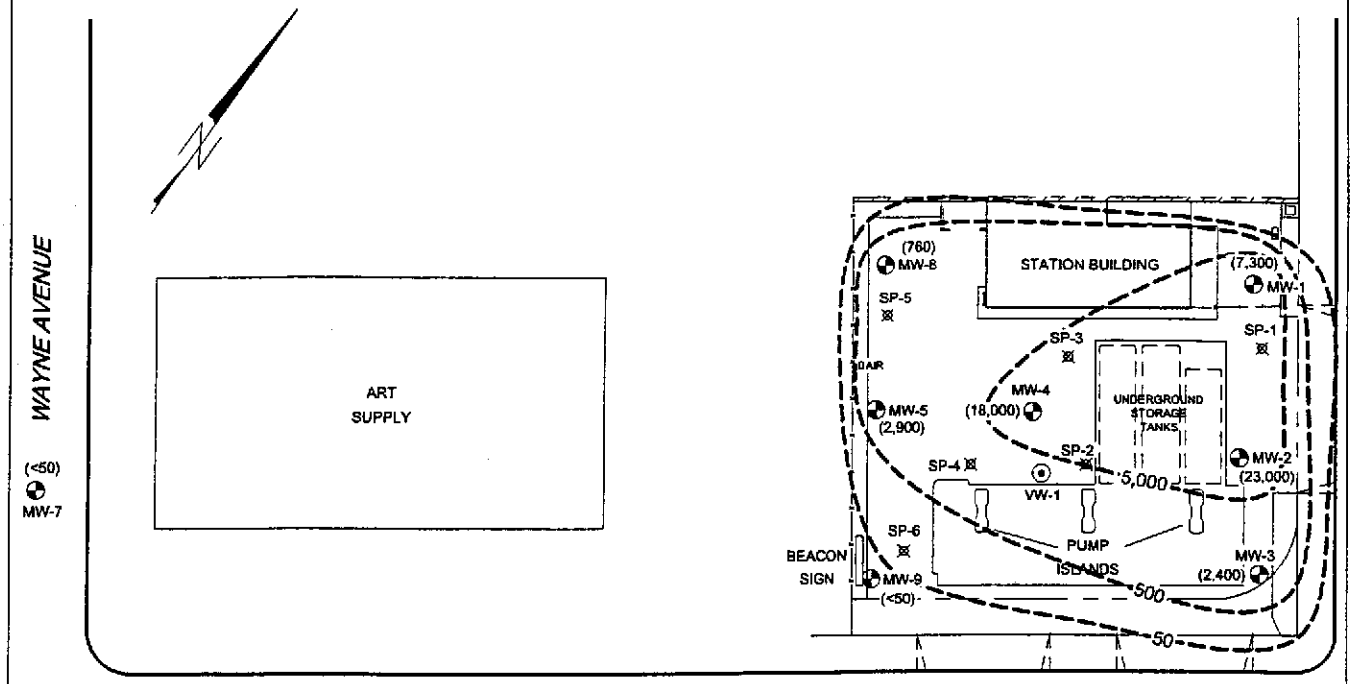
1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95 SITE DIMENSIONS AND FACILTY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

FIGURE 4
BENZENE ISOCONCENTRATION MAP
2/20/03

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

PROJECT NO. 00-3720	DRAWN BY M.L. 4/3/02
FILE NO. 00-3720-6	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

R D M
Environmental



LEGEND:

— - - —	PROPERTY LINE
—x—x—	FENCE
MW-1	MONITORING WELL LOCATION
VW-1	VAPOR EXTRACTION WELL LOCATION
SP-1	AIR SPARGING WELL LOCATION
(23,000)	TPHg CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
—500—	TPHg ISOCONCENTRATION CONTOUR

0 40 FT

SCALE

NOTES:

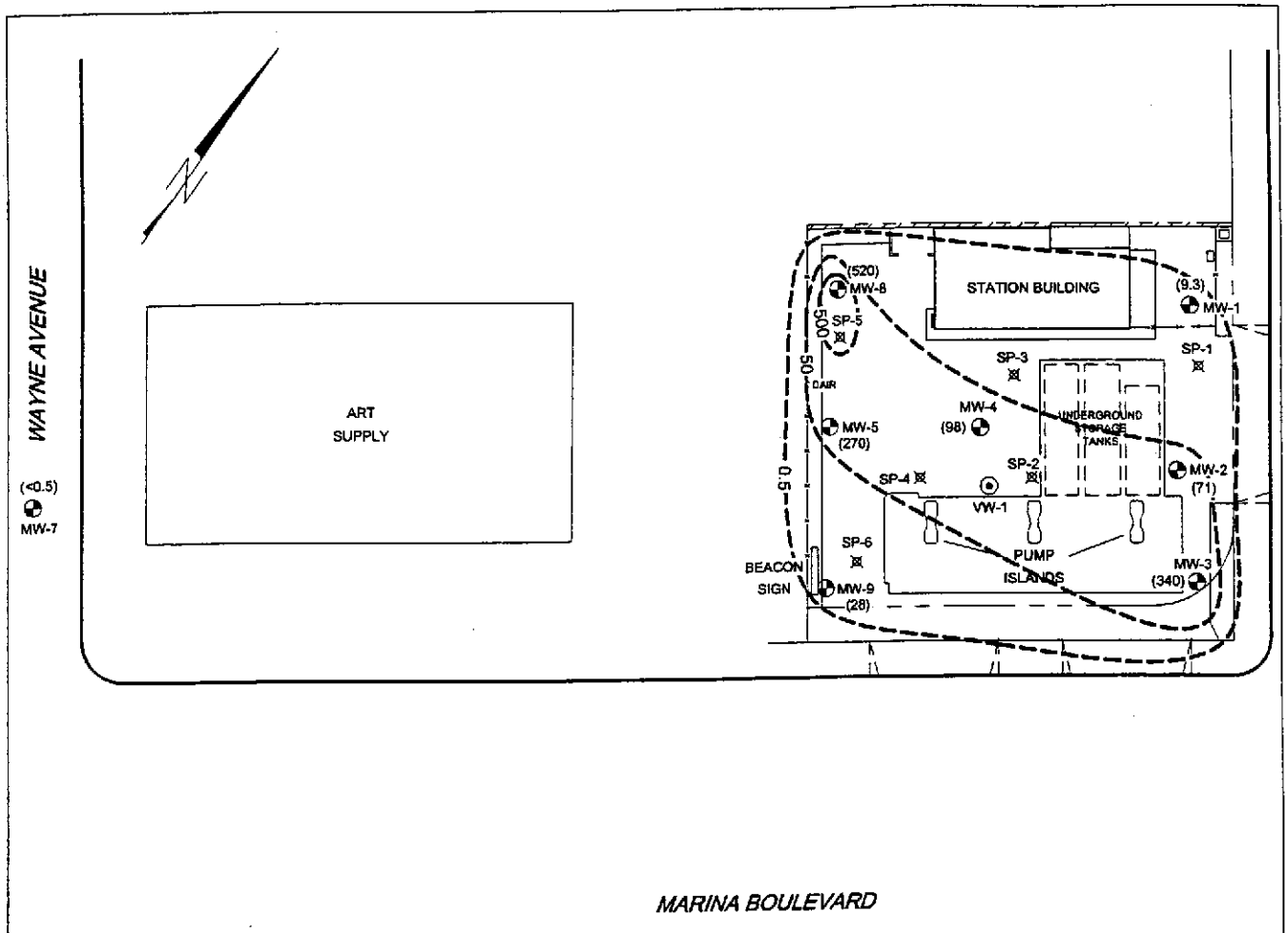
1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95 SITE DIMENSIONS AND FACILTY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

FIGURE 5
TPHg ISOCONCENTRATION MAP
2/20/03

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

PROJECT NO. 00-3720	DRAWN BY M.L. 4/3/03
FILE NO. 00-3720-6	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

R D M Environmental



LEGEND:

— - - —	PROPERTY LINE
—x—x—	FENCE
MW-1	MONITORING WELL LOCATION
VW-1	VAPOR EXTRACTION WELL LOCATION
SP-1	AIR SPARGING WELL LOCATION
(520)	MTBE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
—5.0—	MTBE ISOCONCENTRATION CONTOUR

0 40 FT

SCALE

NOTES:

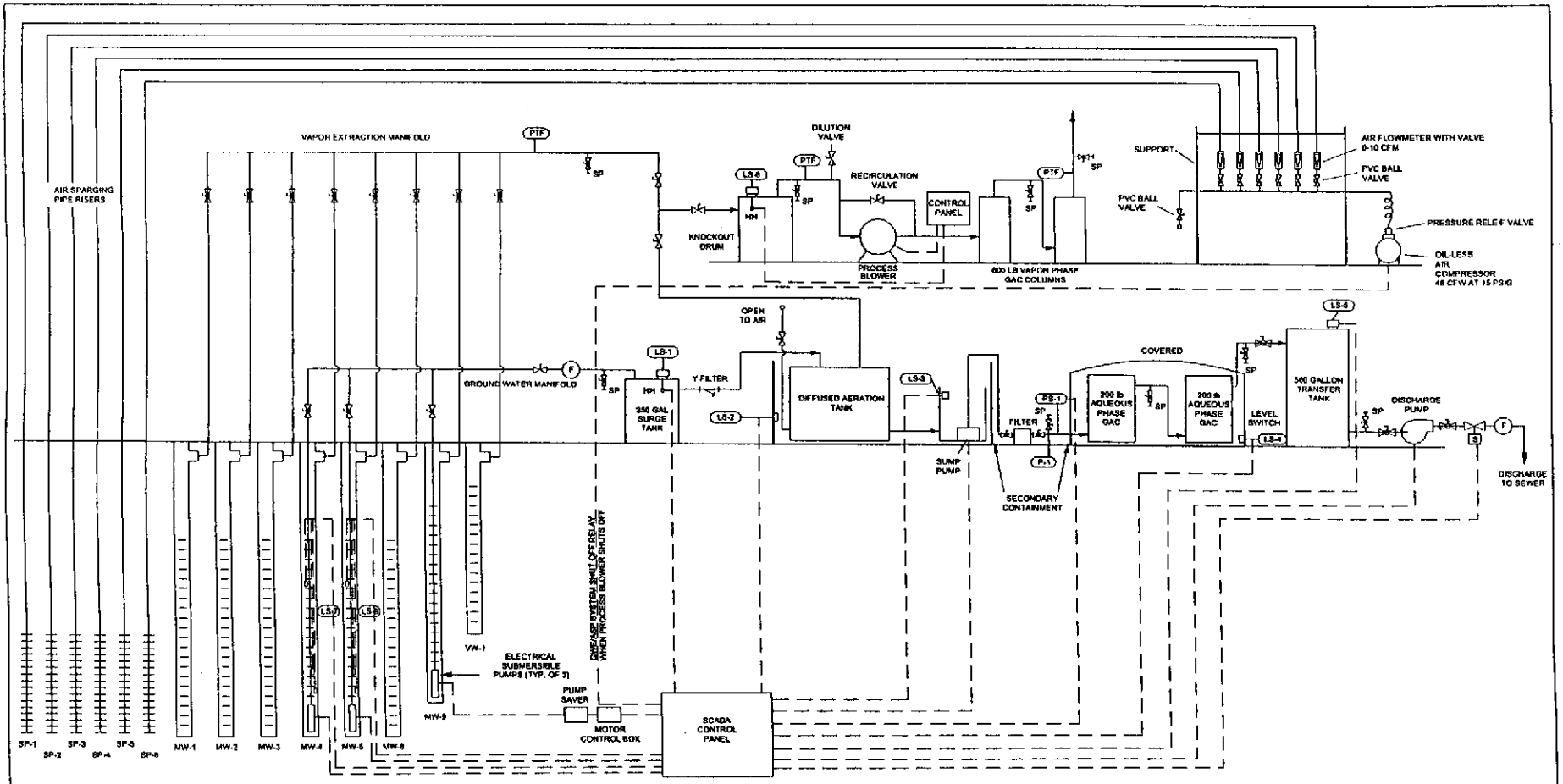
1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95 SITE DIMENSIONS AND FACILTY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

FIGURE 6
MTBE ISOCONCENTRATION MAP
2/20/03

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

PROJECT NO. 00-3720	DRAWN BY M.L. 4/3/03
FILE NO. 00-3720-6	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

R M
Environmental



(LS-1) SURGE TANK:
HIGH HIGH-SHUTS OFF WELL PUMPS (W/REMOTE RESET)

(LS-2) SECONDARY CONTAINMENT VESSEL FOR DATS:
HIGH HIGH SHUTS OFF WELL PUMPS

(LS-3) DATS/SUMP:
HIGH HIGH-SHUTS OFF WELL PUMPS
HIGH-TURNS ON DATS SUMP PUMP
LOW-TURNS OFF DATS SUMP PUMP

(LS-4) SECONDARY CONTAINMENT VESSEL FOR AQUEOUS PHASE CARBON:
HIGH HIGH-SHUTS OFF DATS/SUMP PUMP AND WELL PUMPS

(LS-5) DISCHARGE HOLDING TANK:
HIGH HIGH-SHUTS OFF DATS SUMP PUMP (W/REMOTE RESET)
HIGH-TURNS ON TRANSFER PUMP AND OPENS SEWER SOLENOID VALVE
LOW-TURNS OFF TRANSFER PUMP AND CLOSES SEWER SOLENOID VALVE

(LS-7) RECOVERY WELL PROBES:
HIGH-TURNS ON SUBMERSIBLE WELL PUMP (MW-4)-TO BE CONTROLLED BY RELAY IN PANEL
LOW-TURNS OFF SUBMERSIBLE WELL PUMP (MW-4)-TO BE CONTROLLED BY RELAY IN PANEL

(LS-8) RECOVERY WELL PROBES:
HIGH-TURNS ON SUBMERSIBLE WELL PUMP (MW-5)-TO BE CONTROLLED BY RELAY IN PANEL
LOW-TURNS OFF SUBMERSIBLE WELL PUMP (MW-5)-TO BE CONTROLLED BY RELAY IN PANEL

LEGEND:

- BALL VALVE
- GATE VALVE
- (S) SOLENOID VALVE
- SP SAMPLE PORT
- (PTF) PRESSURE, TEMPERATURE, FLOW MONITORING POINT
- (F) FLOW TOTALIZER
- (P-1) PRESSURE GAUGE
- (PS-1) AQUEOUS PHASE CARBON PRESSURE SWITCH-PRESSURE SWITCH-SHUTS DATS/SUMP PUMP AND WELL PUMPS (W/REMOTE RESET)

FIGURE 7
SOIL VAPOR EXTRACTION, AIR SPARGING, & GROUNDWATER PUMPING SYSTEM SCHEMATIC
TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BLVD.
SAN LEANDRO, CA.

PROJECT NO. 00-3720	DRAWN BY M.L. 6/1/01
FILE NO. 00-3720-3	PREPARED BY RDM
REVISION NO. 4	REVIEWED BY

R D M Environmental

HISTORICAL BACKGROUND INFORMATION

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

PREVIOUS OWNER

- January 1987 - Three underground gasoline storage tanks and one waste oil tank were excavated and removed from two tank cavities. Samples collected from beneath the former tanks indicated that hydrocarbons were present in the soil.

- March 1987 - Five monitoring wells (MW-1 through MW-5) were installed by Conoco. Hydrocarbons were detected in soil and ground-water samples collected from the wells with the highest concentrations being detected in the area of MW-4.

- July 1987 - Four soil borings were drilled in the vicinity of MW-4 to further characterize the soil contamination in that area. TPH concentrations above 100 ppm were detected in each boring. The site has been on a monitoring program since June 1987.

ULTRAMAR INC.

- July 1990 - The site was purchased by Ultramar Inc. from Conoco. The monitoring program has continued.

- August 1991 - A shallow ground water study was performed as a screening tool to locate wells.

- October 1991 - Three additional wells were installed to further define the extent of the dissolved hydrocarbon plume.

- October 1993 - Performed a ground-water pump test, a vapor extraction test, and an air-sparging test.

- May 1994 - A Problem Assessment Report/Remedial Action Plan was submitted.

- December 1994 - One additional monitoring well, six air sparging points and one vapor extraction well were installed.

- June 1997 - Began operation of vapor extraction system.

- July 1997 - The ground water recovery system and the air sparging system began operation.

- September 7, 1999 - Performed quarterly monitoring. Continued to operate the vapor extraction and air sparging systems. The ground-water system did not operate during the quarter.

- As of March 1998, the ground water extraction system has processed approximately 228,850 gallons of water.

- On October 4, 2000, 1,500 gallons of ground water were over purged from Monitoring wells MW-2 and MW-3 using a vacuum truck. Analytical results are included in Table 2.

- On October 17, 2000, 1,200 gallons of ground water were over purged from Monitoring wells MW-2 and MW-3 using a vacuum truck. Analytical results are included in Table 2.

HISTORICAL BACKGROUND INFORMATION

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

- On November 29, 2000, approximately 1,800 gallons of ground water were extracted during the dual phased extraction (DPE) test from MW-1 and MW-2.
- On December 4, 2000, approximately 1,600 gallons of ground water were extracted during the DPE test.
- On January 4, 2001, approximately 1,000 gallons of ground water were extracted during the DPE test.
- The evaluation of these interim remediation events is included in the Doulos report entitled *Evaluation of Interim Remediation with Vacuum Truck/Dual Phase Extraction Events.*
- On May 17, 2002, Tesoro Petroleum purchased the facility from Ultramar.

ENCLOSURE B

Ground Water Sampling Information

DOULOS ENVIRONMENTAL, INC.
GROUNDWATER/LIQUID LEVEL DATA
(measurements in feet)

Project Address: 1088 Marina Blvd.

San Leandro

Date: 3/20/03

Project No.: 67106

Recorded by:

Well No.	Time	Well Elev. TOC	Depth to Groundwater	Measured Total Depth	Groundwater Elevation	Depth to Product	Product Thickness	Comments
MW-1	11:26		12.80	17.74				
MW-2	11:20		11.80	22.71				U.V. = UNDER VAC.
MW-3	11:17		12.92	28.40				
MW-4	11:30		13.33	27.45				UNDER PRESSURE
MW-5	11:36		13.35	28.80				
MW-6	11:14		11.26	14.86				
MW-7	11:10		12.75	25.45				
MW-8	11:33		13.81	28.05				U.P.
MW-9	11:40		12.46	24.60				

Notes:

DOULOS ENVIRONMENTAL, INC. **SAMPLING INFORMATION SHEET**

Client: Tesoro 67106 Sampling Date: 2-20-03

Site: 1088 Marina Blvd. Project No.: _____

San Leandro, Ca. Well Designation: MW-1

_____

Is setup of traffic control devices required? (NO) YES time: _____ hours
Is there standing water in the well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 6
Well cover type: 8" or 12" UV_____ 12" EMCO_____ 8" or 12" BK_____ 8" Christy_____
12" Christy_____ 8" M&D_____ 12" M&D_____ 12" DWP X
12" CNI _____ 36" CNI _____ 12" Pomeco_____ Other: _____
General condition of wellhead assembly: Excellent _____ Good X Fair_____ Poor_____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
_____ 2" PVC bailer _____ Dedicated bailer
_____ 4" PVC bailer X Centrifugal pump
Sampled with: Disposable bailer X Teflon bailer _____ Disposable Tubing_____

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

Initial Measurement
Time: 11:26
Depth of well: 17.74
Depth to water: 12.80

Recharge Measurement
Time: 1:05
Depth to water: 13.05

Calculated purge: 32 gal
Actual purge: 3.2"

Start purge: 12:53 Sampling time: 1:06

Time	Temperature	E.C.	pH	Turbidity	Volume
12:54	69.6	410	7.20		1
12:55	70.0	400	7.18		2
12:56	70.1	361	7.13		3
12:57	71.3	346	7.10		4

Sample appearance: Cloudy Lock: OK

Equipment replaced: (check all that apply) Note condition of replaced item(s)
2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

_____

Signature: _____

DOULOS ENVIRONMENTAL, INC. **SAMPLING INFORMATION SHEET**

Client: Tesoro 67106 Sampling Date: 2-20-03

Site: 1088 Marina Blvd. Project No.:

San Leandro, Ca. Well Designation: MW-2

Is setup of traffic control devices required? (NO) YES time: _____ hours
Is there standing water in the well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 4
Well cover type: 8" or 12" UV_____ 12" EMCO_____ 8" or 12" BK_____ 8" Christy_____
12" Christy_____ 8" M&D_____ 12" M&D_____ 12" DWP _____
12" CNI X 36" CNI _____ 12" Pomeco_____ Other: _____
General condition of wellhead assembly: Excellent _____ Good X Fair_____ Poor_____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
_____ 2" PVC bailer _____ Dedicated bailer
_____ 4" PVC bailer X Centrifugal pump
Sampled with: Disposable bailer X Teflon bailer _____ Disposable Tubing_____

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

Initial Measurement
Time: 11:20
Depth of well: 22.71
Depth to water: 11.80

Recharge Measurement
Time: 12:43
Depth to water: 13.41

Calculated purge: 7 gal
Actual purge: 7 "

Start purge: 12:35 Sampling time: 12:44

Time	Temperature	E.C.	pH	Turbidity	Volume
12:36	69.7	590	7.16		1
12:37	70.0	490	7.10		2
12:38	71.3	461	7.09		3
12:39	71.9	450	7.06		4

Sample appearance: clear Lock: DG Johnson

Equipment replaced: (check all that apply) Note condition of replaced item(s)
2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

DOULOS ENVIRONMENTAL, INC. **SAMPLING INFORMATION SHEET**

Client: Tesoro 67106 Sampling Date: 2-20-03

Site: 1088 Marina Blvd. Project No.: _____

San Leandro, Ca. Well Designation: MW-3

_____

Is setup of traffic control devices required? ~~NO~~ YES time: _____ hours
Is there standing water in the well box? ~~NO~~ YES Above TOC Below TOC
Is top of casing cut level? NO ~~YES~~ If no, see remarks
Is well cap sealed and locked? NO ~~YES~~ If no, see remarks
Height of well casing riser (in inches): 4
Well cover type: 8" or 12" UV_____ 12" EMCO_____ 8" or 12" BK_____ 8" Christy_____
12" Christy_____ 8" M&D_____ 12" M&D_____ 12" DWP X
12" CNI _____ 36" CNI _____ 12" Pomeco_____ Other: _____
General condition of wellhead assembly: Excellent _____ Good X Fair_____ Poor_____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
_____ 2" PVC bailer _____ Dedicated bailer
_____ 4" PVC bailer X Centrifugal pump
Sampled with: Disposable bailer X Teflon bailer _____ Disposable Tubing_____

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

Initial Measurement
Time: 11:17
Depth of well: 28.40
Depth to water: 12.92

Recharge Measurement
Time: 12:27
Depth to water: 13.40
Calculated purge: 9.9 gal
Actual purge: 10 "

Start purge: 12:17 Sampling time: 12:30

Time	Temperature	E.C.	pH	Turbidity	Volume
12:18	72.3	406	7.31		1
12:19	73.0	391	7.17		2
12:20	73.4	370	7.13		3
12:21	73.6	360	7.10		4

Sample appearance: clear Lock: Dolphin

Equipment replaced: (check all that apply) Note condition of replaced item(s)
2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

_____

Signature: _____

DOULOS ENVIRONMENTAL, INC. **SAMPLING INFORMATION SHEET**

Client: Tesoro 67106 Sampling Date: 2-20-03

Site: 1088 Marina Blvd. Project No.: _____

San Leandro, Ca. Well Designation: MW-4

_____

Is setup of traffic control devices required? (NO) YES time: _____ hours
Is there standing water in the well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 3
Well cover type: 8" or 12" UV_____ 12" EMCO_____ 8" or 12" BK_____ 8" Christy_____
12" Christy_____ 8" M&D_____ 12" M&D_____ 12" DWP _____
12" CNI 24 36" CNI _____ 12" Pomeco_____ Other: _____
General condition of wellhead assembly: Excellent _____ Good X Fair_____ Poor_____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
_____ 2" PVC bailer _____ Dedicated bailer
_____ 4" PVC bailer X Centrifugal pump
Sampled with: Disposable bailer X Teflon bailer _____ Disposable Tubing_____

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

Initial Measurement
Time: 11:30
Depth of well: 27.45
Depth to water: 13.33

Recharge Measurement
Time: 1:20
Depth to water: 14.40

Calculated purge: 9 gal
Actual purge: 9 gal

Start purge: 1:12 Sampling time: 1:21

Time	Temperature	E.C.	pH	Turbidity	Volume
1:13	71.5	493	7.30		1
1:14	72.6	430	7.14		2
1:15	73.0	411	7.10		3
1:16	73.4	404	7.06		4

Sample appearance: Clear Lock: Dolphin Lock

Equipment replaced: (check all that apply) Note condition of replaced item(s)
2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

_____

Signature: _____

DOULOS ENVIRONMENTAL, INC. **SAMPLING INFORMATION SHEET**

Client: Tesoro 67106 Sampling Date: 2-20-03

Site: 1088 Marina Blvd. Project No.: _____

San Leandro, Ca. Well Designation: MW-5

_____

Is setup of traffic control devices required? (NO) YES time: _____ hours
Is there standing water in the well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 5
Well cover type: 8" or 12" UV_____ 12" EMCO_____ 8" or 12" BK_____ 8" Christy_____
12" Christy_____ 8" M&D_____ 12" M&D_____ 12" DWP _____
12" CNI 24 36" CNI _____ 12" Pomeco_____ Other: _____
General condition of wellhead assembly: Excellent _____ Good X Fair_____ Poor_____

Purging Equipment: _____2" disposable bailer _____Submersible pump
_____2" PVC bailer _____Dedicated bailer
_____4" PVC bailer X Centrifugal pump
Sampled with: Disposable bailer X Teflon bailer _____ Disposable Tubing_____

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

Initial Measurement
Time: 11:36
Depth of well: 28.80
Depth to water: 13.35

Recharge Measurement
Time: 2:00
Depth to water: 14.30

Calculated purge: 9.9 gal
Actual purge: 10 "

Start purge: 1:50 Sampling time: 2:03

Time	Temperature	E.C.	pH	Turbidity	Volume
1:51	72.6	580	7.30		1
1:52	73.0	570	7.16		2
1:53	73.3	483	7.12		3
1:54	73.5	481	7.11		4

Sample appearance: Clear Lock: Dolphin

Equipment replaced: (check all that apply) Note condition of replaced item(s)
2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

_____

Signature: _____

DOULOS ENVIRONMENTAL, INC. **SAMPLING INFORMATION SHEET**

Client: Tesoro 67106 Sampling Date: 2-20-03

Site: 1088 Marina Blvd. Project No.:

San Leandro, Ca. Well Designation: MW-6

Is setup of traffic control devices required? (NO) YES time: _____ hours
Is there standing water in the well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 3
Well cover type: 8" or 12" UV_____ 12" EMCO_____ 8" or 12" BK_____ 8" Christy_____
12" Christy_____ 8" M&D_____ 12" M&D_____ 12" DWP _____
12" CNI X 36" CNI _____ 12" Pomeco_____ Other: _____
General condition of wellhead assembly: Excellent_____ Good X Fair_____ Poor_____

Purging Equipment: _____2" disposable bailer _____Submersible pump
_____2" PVC bailer _____Dedicated bailer
_____4" PVC bailer X Centrifugal pump
Sampled with: Disposable bailer X Teflon bailer _____ Disposable Tubing_____

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

Initial Measurement
Time: 11:14
Depth of well: 14.66
Depth to water: 11.26

Recharge Measurement
Time: 12:10
Depth to water: 12.40
Calculated purge: 2.3 gal
Actual purge: 2.3 "

Start purge: 11:58 Sampling time: 12:13

Time	Temperature	E.C.	pH	Turbidity	Volume
11:59	70.5	670	7.30		1
11:59	73.0	651	7.14		2
12:00	73.2	640	7.03		3
12:01	73.6	635	7.02		4

Sample appearance: clear Lock: Dolphin

Equipment replaced: (check all that apply) Note condition of replaced item(s)
2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

DOULOS ENVIRONMENTAL, INC. **SAMPLING INFORMATION SHEET**

Client: Tesoro 67106 Sampling Date: 2-20-03

Site: 1088 Marina Blvd. Project No.:

San Leandro, Ca. Well Designation: MW-7

Is setup of traffic control devices required? (NO) YES time: _____ hours
Is there standing water in the well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 6
Well cover type: 8" or 12" UV_____ 12" EMCO_____ 8" or 12" BK_____ 8" Christy_____
12" Christy_____ 8" M&D_____ 12" M&D_____ 12" DWP _____
12" CNI ✓ 36" CNI _____ 12" Pomeco_____ Other: _____
General condition of wellhead assembly: Excellent _____ Good X Fair_____ Poor_____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
_____ 2" PVC bailer _____ Dedicated bailer
_____ 4" PVC bailer X Centrifugal pump
Sampled with: Disposable bailer X Teflon bailer _____ Disposable Tubing_____

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

Initial Measurement
Time: 11:10
Depth of well: 25.45
Depth to water: 12.75

Recharge Measurement
Time: 11:51
Depth to water: 13.73

Calculated purge: 8.1 gal
Actual purge: 8.1 0

Start purge: 11:43 Sampling time: 11:52

Time	Temperature	E.C.	pH	Turbidity	Volume
11:44	72.5	541	7.01		1
11:45	72.9	490	7.02		2
11:46	73.4	405	6.89		3
11:46	73.8	389	6.88		4

Sample appearance: Clear Lock: Padlock

Equipment replaced: (check all that apply) Note condition of replaced item(s)
2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

DOULOS ENVIRONMENTAL, INC. **SAMPLING INFORMATION SHEET**

Client: Tesoro 67106 Sampling Date: 1-29-03

Site: 1088 Marina Blvd. Project No.:

San Leandro, Ca. Well Designation: MW-8

Is setup of traffic control devices required? ~~NO~~ YES time: _____ hours
Is there standing water in the well box? ~~NO~~ YES Above TOC Below TOC
Is top of casing cut level? NO YES If no, see remarks
Is well cap sealed and locked? NO ~~YES~~ If no, see remarks
Height of well casing riser (in inches): 6
Well cover type: 8" or 12" UV_____ 12" EMCO_____ 8" or 12" BK_____ 8" Christy_____
12" Christy_____ 8" M&D_____ 12" M&D_____ 12" DWP X
12" CNI _____ 36" CNI _____ 12" Pomeco_____ Other: _____
General condition of wellhead assembly: Excellent _____ Good X Fair_____ Poor_____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
_____ 2" PVC bailer _____ Dedicated bailer
_____ 4" PVC bailer X Centrifugal pump
Sampled with: Disposable bailer X Teflon bailer _____ Disposable Tubing_____

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

Initial Measurement
Time: 11:33
Depth of well: 24.05
Depth to water: 13.81

Recharge Measurement
Time: 1:39
Depth to water: 14.16

Calculated purge: 9.1 gal
Actual purge: 9.1 gal

Start purge: 1:26 Sampling time: 1:42

Time	Temperature	E.C.	pH	Turbidity	Volume
1:27	70.5	541	7.16		1
1:28	70.9	503	7.10		2
1:29	71.6	491	7.03		3
1:30	73.2	480	6.96		4

Sample appearance: Clear Lock: [signature]

Equipment replaced: (check all that apply) Note condition of replaced item(s)
2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: _____

DOULOS ENVIRONMENTAL, INC. **SAMPLING INFORMATION SHEET**

Client: Tesoro 67106 Sampling Date: 2-20-03

Site: 1088 Marina Blvd. Project No.: _____

San Leandro, Ca. Well Designation: MW-9

_____

Is setup of traffic control devices required? (NO) YES time: _____ hours
Is there standing water in the well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 5
Well cover type: 8" or 12" UV_____ 12" EMCO_____ 8" or 12" BK_____ 8" Christy_____
12" Christy_____ 8" M&D_____ 12" M&D_____ 12" DWP _____
~~12" CNI~~ 24 36" CNI _____ 12" Pomeco_____ Other: _____
General condition of wellhead assembly: Excellent _____ Good X Fair_____ Poor_____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
_____ 2" PVC bailer _____ Dedicated bailer
_____ 4" PVC bailer X Centrifugal pump
Sampled with: Disposable bailer X Teflon bailer _____ Disposable Tubing_____

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

Initial Measurement
Time: 11:40
Depth of well: 24.60
Depth to water: 12.46

Recharge Measurement
Time: 2:24
Depth to water: 14.16

Calculated purge: 7.8 gal
Actual purge: 8 "

Start purge: 2:15 Sampling time: 2:26

Time	Temperature	E.C.	pH	Turbidity	Volume
2:16	73.1	490	7.18		1
2:17	73.4	413	7.12		2
2:18	73.2	411	7.01		3
2:19	73.5	409	7.00		4

Sample appearance: clear Lock: NA

Equipment replaced: (check all that apply) Note condition of replaced item(s)
2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

_____

Signature: _____

ENCLOSURE C

Ground Water Analytical Results

KIFF ANALYTICAL LLC

Report Number : 31648
Date : 2/28/2003

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 9 Water Samples
Project Name : Tesoro
Project Number : 67106 San Leandro
P.O. Number : AFE 23139622

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

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 31648
Date : 2/28/2003

Subject : 9 Water Samples
Project Name : Tesoro
Project Number : 67106 San Leandro
P.O. Number : AFE 23139622

Case Narrative

Tert-Butanol results for samples MW-3 and MW-8 may be biased slightly high. A fraction of MtBE (typically less than 1%) converts to Tert-Butanol during the analysis. We consider this conversion effect to be mathematically significant in samples that contain MtBE/Tert-Butanol in ratios of over 20:1.

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

The Method Reporting Limit for Tert-amyl methyl ether has been increased due to the presence of an interfering compound for sample MW-3.

Joel Kiff

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 31648

Date : 2/28/2003

Project Name : **Tesoro**

Project Number : **67106 San Leandro**

Sample : **MW-1** Matrix : Water Lab Number : 31648-01

Sample Date :2/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 1.5**	1.5	ug/L	EPA 8260B	2/24/2003
Toluene	**< 1.5**	1.5	ug/L	EPA 8260B	2/24/2003
Ethylbenzene	**130**	1.5	ug/L	EPA 8260B	2/24/2003
Total Xylenes	**89**	1.5	ug/L	EPA 8260B	2/24/2003
Methyl-t-butyl ether (MTBE)	**9.3**	1.5	ug/L	EPA 8260B	2/24/2003
Diisopropyl ether (DIPE)	**< 1.5**	1.5	ug/L	EPA 8260B	2/24/2003
Ethyl-t-butyl ether (ETBE)	**< 1.5**	1.5	ug/L	EPA 8260B	2/24/2003
Tert-amyl methyl ether (TAME)	**< 1.5**	1.5	ug/L	EPA 8260B	2/24/2003
Tert-Butanol	**< 20**	20	ug/L	EPA 8260B	2/24/2003
TPH as Gasoline	**7300**	200	ug/L	EPA 8260B	2/24/2003
1,2-Dichloroethane	**< 1.5**	1.5	ug/L	EPA 8260B	2/24/2003
1,2-Dibromoethane	**< 1.5**	1.5	ug/L	EPA 8260B	2/24/2003
Toluene - d8 (Surr)	97.8		% Recovery	EPA 8260B	2/24/2003
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	2/24/2003
Dibromofluoromethane (Surr)	99.5		% Recovery	EPA 8260B	2/24/2003
1,2-Dichloroethane-d4 (Surr)	97.7		% Recovery	EPA 8260B	2/24/2003

Joel Kiff

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 31648

Date : 2/28/2003

Project Name : **Tesoro**

Project Number : **67106 San Leandro**

Sample : **MW-2** Matrix : Water Lab Number : 31648-02

Sample Date :2/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**67**	10	ug/L	EPA 8260B	2/25/2003
Toluene	**130**	10	ug/L	EPA 8260B	2/25/2003
Ethylbenzene	**1100**	10	ug/L	EPA 8260B	2/25/2003
Total Xylenes	**2800**	10	ug/L	EPA 8260B	2/25/2003
Methyl-t-butyl ether (MTBE)	**71**	10	ug/L	EPA 8260B	2/25/2003
Diisopropyl ether (DIPE)	**< 10**	10	ug/L	EPA 8260B	2/25/2003
Ethyl-t-butyl ether (ETBE)	**< 10**	10	ug/L	EPA 8260B	2/25/2003
Tert-amyl methyl ether (TAME)	**< 10**	10	ug/L	EPA 8260B	2/25/2003
Tert-Butanol	**< 100**	100	ug/L	EPA 8260B	2/25/2003
TPH as Gasoline	**23000**	1000	ug/L	EPA 8260B	2/25/2003
1,2-Dichloroethane	**< 10**	10	ug/L	EPA 8260B	2/25/2003
1,2-Dibromoethane	**< 10**	10	ug/L	EPA 8260B	2/25/2003
Toluene - d8 (Surr)	94.6		% Recovery	EPA 8260B	2/25/2003
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	2/25/2003
Dibromofluoromethane (Surr)	105		% Recovery	EPA 8260B	2/25/2003
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	2/25/2003

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 31648

Date : 2/28/2003

Project Name : **Tesoro**

Project Number : **67106 San Leandro**

Sample : **MW-3** Matrix : Water Lab Number : 31648-03

Sample Date :2/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**2.5**	0.50	ug/L	EPA 8260B	2/23/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	2/23/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	2/23/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	2/23/2003
Methyl-t-butyl ether (MTBE)	**340**	0.50	ug/L	EPA 8260B	2/23/2003
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	2/23/2003
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	2/23/2003
Tert-amyl methyl ether (TAME)	**< 1.0**	1.0	ug/L	EPA 8260B	2/23/2003
Tert-Butanol	**13 J**	5.0	ug/L	EPA 8260B	2/23/2003
TPH as Gasoline	**2400**	50	ug/L	EPA 8260B	2/23/2003
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	2/23/2003
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	2/23/2003
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	2/23/2003
4-Bromofluorobenzene (Surr)	98.4		% Recovery	EPA 8260B	2/23/2003
Dibromofluoromethane (Surr)	94.9		% Recovery	EPA 8260B	2/23/2003
1,2-Dichloroethane-d4 (Surr)	98.1		% Recovery	EPA 8260B	2/23/2003

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 31648

Date : 2/28/2003

Project Name : **Tesoro**

Project Number : **67106 San Leandro**

Sample : **MW-4** Matrix : Water Lab Number : 31648-04

Sample Date :2/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**57**	5.0	ug/L	EPA 8260B	2/24/2003
Toluene	**240**	5.0	ug/L	EPA 8260B	2/24/2003
Ethylbenzene	**650**	5.0	ug/L	EPA 8260B	2/24/2003
Total Xylenes	**3700**	5.0	ug/L	EPA 8260B	2/24/2003
Methyl-t-butyl ether (MTBE)	**98**	5.0	ug/L	EPA 8260B	2/24/2003
Diisopropyl ether (DIPE)	**< 5.0**	5.0	ug/L	EPA 8260B	2/24/2003
Ethyl-t-butyl ether (ETBE)	**< 5.0**	5.0	ug/L	EPA 8260B	2/24/2003
Tert-amyl methyl ether (TAME)	**< 5.0**	5.0	ug/L	EPA 8260B	2/24/2003
Tert-Butanol	**< 50**	50	ug/L	EPA 8260B	2/24/2003
TPH as Gasoline	**18000**	500	ug/L	EPA 8260B	2/24/2003
1,2-Dichloroethane	**< 5.0**	5.0	ug/L	EPA 8260B	2/24/2003
1,2-Dibromoethane	**< 5.0**	5.0	ug/L	EPA 8260B	2/24/2003
Toluene - d8 (Surr)	97.5		% Recovery	EPA 8260B	2/24/2003
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	2/24/2003
Dibromofluoromethane (Surr)	94.1		% Recovery	EPA 8260B	2/24/2003
1,2-Dichloroethane-d4 (Surr)	94.2		% Recovery	EPA 8260B	2/24/2003

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 31648
Date : 2/28/2003

Project Name : **Tesoro**
Project Number : **67106 San Leandro**

Sample : **MW-5** Matrix : Water Lab Number : 31648-05
Sample Date :2/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**22**	1.0	ug/L	EPA 8260B	2/23/2003
Toluene	**< 1.0**	1.0	ug/L	EPA 8260B	2/23/2003
Ethylbenzene	**81**	1.0	ug/L	EPA 8260B	2/23/2003
Total Xylenes	**77**	1.0	ug/L	EPA 8260B	2/23/2003
Methyl-t-butyl ether (MTBE)	**270**	1.0	ug/L	EPA 8260B	2/23/2003
Diisopropyl ether (DIPE)	**< 1.0**	1.0	ug/L	EPA 8260B	2/23/2003
Ethyl-t-butyl ether (ETBE)	**< 1.0**	1.0	ug/L	EPA 8260B	2/23/2003
Tert-amyl methyl ether (TAME)	**< 1.0**	1.0	ug/L	EPA 8260B	2/23/2003
Tert-Butanol	**170**	10	ug/L	EPA 8260B	2/23/2003
TPH as Gasoline	**2900**	100	ug/L	EPA 8260B	2/23/2003
1,2-Dichloroethane	**< 1.0**	1.0	ug/L	EPA 8260B	2/23/2003
1,2-Dibromoethane	**< 1.0**	1.0	ug/L	EPA 8260B	2/23/2003
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	2/23/2003
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	2/23/2003
Dibromofluoromethane (Surr)	95.9		% Recovery	EPA 8260B	2/23/2003
1,2-Dichloroethane-d4 (Surr)	92.0		% Recovery	EPA 8260B	2/23/2003

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 31648

Date : 2/28/2003

Project Name : **Tesoro**

Project Number : **67106 San Leandro**

Sample : **MW-6** Matrix : Water Lab Number : 31648-06

Sample Date :2/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	2/22/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	2/22/2003
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Toluene - d8 (Surr)	94.1		% Recovery	EPA 8260B	2/22/2003
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	2/22/2003
Dibromofluoromethane (Surr)	98.6		% Recovery	EPA 8260B	2/22/2003
1,2-Dichloroethane-d4 (Surr)	95.5		% Recovery	EPA 8260B	2/22/2003

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 31648

Date : 2/28/2003

Project Name : **Tesoro**

Project Number : **67106 San Leandro**

Sample : **MW-7** Matrix : Water Lab Number : 31648-07

Sample Date :2/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	2/22/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	2/22/2003
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Toluene - d8 (Surr)	95.5		% Recovery	EPA 8260B	2/22/2003
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	2/22/2003
Dibromofluoromethane (Surr)	98.2		% Recovery	EPA 8260B	2/22/2003
1,2-Dichloroethane-d4 (Surr)	98.1		% Recovery	EPA 8260B	2/22/2003

Joel Kiff

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 31648

Date : 2/28/2003

Project Name : **Tesoro**

Project Number : **67106 San Leandro**

Sample : **MW-8** Matrix : Water Lab Number : 31648-08

Sample Date :2/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**17**	1.0	ug/L	EPA 8260B	2/23/2003
Toluene	**< 1.0**	1.0	ug/L	EPA 8260B	2/23/2003
Ethylbenzene	**19**	1.0	ug/L	EPA 8260B	2/23/2003
Total Xylenes	**42**	1.0	ug/L	EPA 8260B	2/23/2003
Methyl-t-butyl ether (MTBE)	**520**	1.0	ug/L	EPA 8260B	2/23/2003
Diisopropyl ether (DIPE)	**< 1.0**	1.0	ug/L	EPA 8260B	2/23/2003
Ethyl-t-butyl ether (ETBE)	**< 1.0**	1.0	ug/L	EPA 8260B	2/23/2003
Tert-amyl methyl ether (TAME)	**< 1.0**	1.0	ug/L	EPA 8260B	2/23/2003
Tert-Butanol	**16 J**	10	ug/L	EPA 8260B	2/23/2003
TPH as Gasoline	**760**	100	ug/L	EPA 8260B	2/23/2003
1,2-Dichloroethane	**< 1.0**	1.0	ug/L	EPA 8260B	2/23/2003
1,2-Dibromoethane	**< 1.0**	1.0	ug/L	EPA 8260B	2/23/2003
Toluene - d8 (Surr)	95.7		% Recovery	EPA 8260B	2/23/2003
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	2/23/2003
Dibromofluoromethane (Surr)	95.0		% Recovery	EPA 8260B	2/23/2003
1,2-Dichloroethane-d4 (Surr)	96.8		% Recovery	EPA 8260B	2/23/2003

Joel Kiff

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 31648
Date : 2/28/2003

Project Name : **Tesoro**
Project Number : **67106 San Leandro**

Sample : **MW-9** Matrix : Water Lab Number : 31648-09
Sample Date :2/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Methyl-t-butyl ether (MTBE)	**28**	0.50	ug/L	EPA 8260B	2/22/2003
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	2/22/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	2/22/2003
1,2-Dichloroethane	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
1,2-Dibromoethane	**< 0.50**	0.50	ug/L	EPA 8260B	2/22/2003
Toluene - d8 (Surr)	85.4		% Recovery	EPA 8260B	2/22/2003
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	2/22/2003
Dibromofluoromethane (Surr)	116		% Recovery	EPA 8260B	2/22/2003
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	2/22/2003

Joel Kiff

Approved By: Joel Kiff

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

Report Number : 31648

Date : 2/28/2003

QC Report : Method Blank Data

Project Name : **Tesoro**

Project Number : **67106 San Leandro**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	2/22/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/22/2003
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Toluene - d8 (Surr)	115		%	EPA 8260B	2/22/2003
4-Bromofluorobenzene (Surr)	98.2		%	EPA 8260B	2/22/2003
Dibromofluoromethane (Surr)	100		%	EPA 8260B	2/22/2003
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	2/22/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	2/22/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/22/2003
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Toluene - d8 (Surr)	96.2		%	EPA 8260B	2/22/2003
4-Bromofluorobenzene (Surr)	104		%	EPA 8260B	2/22/2003
Dibromofluoromethane (Surr)	97.5		%	EPA 8260B	2/22/2003
1,2-Dichloroethane-d4 (Surr)	97.8		%	EPA 8260B	2/22/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	2/22/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/22/2003
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	2/22/2003
Toluene - d8 (Surr)	92.8		%	EPA 8260B	2/22/2003
4-Bromofluorobenzene (Surr)	98.4		%	EPA 8260B	2/22/2003
Dibromofluoromethane (Surr)	108		%	EPA 8260B	2/22/2003
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	2/22/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	2/24/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	2/24/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	2/24/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	2/24/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	2/24/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	2/24/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	2/24/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	2/24/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	2/24/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	2/24/2003
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	2/24/2003
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	2/24/2003
Toluene - d8 (Surr)	101		%	EPA 8260B	2/24/2003
4-Bromofluorobenzene (Surr)	95.8		%	EPA 8260B	2/24/2003
Dibromofluoromethane (Surr)	89.7		%	EPA 8260B	2/24/2003
1,2-Dichloroethane-d4 (Surr)	96.2		%	EPA 8260B	2/24/2003

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 31648

Date : 2/28/2003

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Tesoro**

Project Number : **67106 San Leandro**

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	31635-02	<0.50	39.9	40.0	38.4	38.6	ug/L	EPA 8260B	2/22/03	96.3	96.6	0.311	70-130	25
Toluene	31635-02	<0.50	39.9	40.0	38.1	38.5	ug/L	EPA 8260B	2/22/03	95.5	96.4	0.886	70-130	25
Tert-Butanol	31635-02	<5.0	200	200	186	194	ug/L	EPA 8260B	2/22/03	93.4	96.8	3.63	70-130	25
Methyl-t-Butyl Ether	31635-02	1.6	39.9	40.0	41.7	39.8	ug/L	EPA 8260B	2/22/03	100	95.5	4.97	70-130	25
Benzene	31648-09	<0.50	40.0	40.0	37.9	38.0	ug/L	EPA 8260B	2/22/03	94.7	94.9	0.185	70-130	25
Toluene	31648-09	<0.50	40.0	40.0	33.5	33.4	ug/L	EPA 8260B	2/22/03	83.7	83.6	0.209	70-130	25
Tert-Butanol	31648-09	<5.0	200	200	194	196	ug/L	EPA 8260B	2/22/03	96.8	98.1	1.39	70-130	25
Methyl-t-Butyl Ether	31648-09	28	40.0	40.0	67.7	69.9	ug/L	EPA 8260B	2/22/03	99.6	105	5.37	70-130	25
Benzene	31657-01	<0.50	40.0	40.0	36.7	36.2	ug/L	EPA 8260B	2/22/03	91.7	90.6	1.21	70-130	25
Toluene	31657-01	<0.50	40.0	40.0	36.1	35.4	ug/L	EPA 8260B	2/22/03	90.2	88.6	1.84	70-130	25
Tert-Butanol	31657-01	<5.0	200	200	189	199	ug/L	EPA 8260B	2/22/03	94.6	99.4	4.97	70-130	25
Methyl-t-Butyl Ether	31657-01	<0.50	40.0	40.0	37.9	37.8	ug/L	EPA 8260B	2/22/03	94.6	94.6	0.106	70-130	25
Benzene	31648-03	2.5	40.0	40.0	41.3	39.8	ug/L	EPA 8260B	2/23/03	97.0	93.3	3.86	70-130	25
Toluene	31648-03	<0.50	40.0	40.0	39.3	37.9	ug/L	EPA 8260B	2/23/03	98.3	94.6	3.81	70-130	25
Tert-Butanol	31648-03	13	200	200	203	201	ug/L	EPA 8260B	2/23/03	95.0	94.3	0.713	70-130	25
Methyl-t-Butyl Ether	31648-03	340	40.0	40.0	359	367	ug/L	EPA 8260B	2/23/03	53.0	72.9	31.5	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 31648

QC Report : Laboratory Control Sample (LCS)

Date : 2/28/2003

Project Name : **Tesoro**

Project Number : **67106 San Leandro**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	2/22/03	102	70-130
Toluene	40.0	ug/L	EPA 8260B	2/22/03	97.7	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/22/03	94.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/22/03	104	70-130
Benzene	40.0	ug/L	EPA 8260B	2/22/03	91.8	70-130
Toluene	40.0	ug/L	EPA 8260B	2/22/03	91.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/22/03	96.4	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/22/03	99.3	70-130
Benzene	40.0	ug/L	EPA 8260B	2/22/03	92.7	70-130
Toluene	40.0	ug/L	EPA 8260B	2/22/03	91.0	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/22/03	94.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/22/03	96.2	70-130
Benzene	40.0	ug/L	EPA 8260B	2/23/03	96.0	70-130
Toluene	40.0	ug/L	EPA 8260B	2/23/03	91.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	2/23/03	94.0	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	2/23/03	88.0	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

KIFF ANALYTICAL LLC

720 Olive Drive, Suite D
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 31648 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF to): Richard Munsch	EDF Report? [X] Yes [ ] No
Company/Address: RDM	Recommended but not mandatory to complete this section: Sampling Company Log Code: DEIO
771-7098 / 771-4584	Global ID: T0600101409
Project Number: 67106 San Leandro / P.O. No.: AFE 23139622	EDF Deliverable to (Email Address): rmunsch@rcsis.com
Project Name: Tesoro	Project Address: San Leandro
Sampler Signature (below): Edgar Alvarez	

Sample Designation	Date	Time	Sampling	Container					Preservative				Matrix		Analysis Request																		TAT	For Lab Use Only
				40 ml VOA	SLEEVE				HCl	HNO_3	ICE	NONE		WATER	SOIL		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)					12 hr/24 hr/48 hr/72 hr/1 wk	
✓	MW-1	2-20-03	1:06	3					X		X			X							X				X								TAT	-01
✓	MW-2		12:44																																-02
✓	MW-3		12:30																																-03
✓	MW-4		1:21																																-04
✓	MW-5		2:03																																-05
✓	MW-6		12:13																																-06
✓	MW-7		11:52																																-07
✓	MW-8		1:42																																-08
✓	MW-9		2:26																																-09

	Date	Time		
Relinquished by:			Received by:	Remarks:
Relinquished by:			Received by:	
Relinquished by:	Date: 022/03	Time: 1330	Received by Laboratory: K.A. Analyst	Bill to: ROB DONOVAN

Distribution: White - Lab, Yellow - File, Pink - Originator

Forms/coc 121001.fm9

ENCLOSURE D

Historical Ground Water Monitoring Data

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #527
601 RIVERSIDE BOULEVARD, ROSEVILLE, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing)[1]	Depth to Ground water[1]	Ground Water Elevation[2]	Well Depth
MW-1	7/26/93	140.37	25.77	114.60	----
	9/28/93		25.55	114.82	----
	12/21/93		25.79	114.58	----
	2/10/94		25.96	114.41	36.68
	4/23/94		25.89	114.48	36.68
	7/25/94		26.12	114.25	36.68
	10/13/94		26.11	114.26	36.51
	1/12/95		26.34	114.03	36.51
	4/11/95		25.32	115.05	36.54
	8/5/95		25.22	115.15	36.67
	10/31/95		25.38	114.99	36.65
	2/1/96		25.54	114.83	36.65
	4/10/96		25.25	115.12	36.64
	7/17/96		25.14	115.23	36.64
	11/5/96		25.41	114.96	36.63
	1/28/97		25.32	115.05	36.61
	4/30/97		25.10	115.27	36.54
	7/24/97		25.39	114.98	36.54
	10/21/97		25.61	114.76	36.53
	1/19/98		25.69	114.68	36.54
	5/28/98		24.75	115.62	----
	7/21/98		24.85	115.52	36.57
	11/4/98		25.13	115.24	36.56
	1/25/99		25.23	115.14	36.57
	8/12/99		25.48	114.89	36.56
	11/1/99		25.55	114.82	36.56
	3/7/00		25.53	114.84	36.56
	5/10/00		25.14	115.23	36.56
	9/14/00		25.31	115.06	36.56
	1/17/01		26.07	114.30	36.56
	3/26/01		25.88	114.49	36.56
	6/18/01		25.82	114.55	36.53
	8/6/01		26.04	114.33	36.53
MW-2	7/26/93	141.04	11.43	129.61	----
	9/28/93		11.70	129.34	----
	12/21/93		11.86	129.18	----
	2/10/94		11.63	129.41	23.10
	4/23/94		11.73	129.31	23.11
	7/25/94		11.85	129.19	23.11
	10/13/94		11.91	129.13	22.92
	1/12/95		9.27	131.77	22.91
	4/11/95		8.97	132.07	22.94
	8/5/95		11.12	129.92	23.10
	10/31/95		11.63	129.41	23.17

NOTES: 1 = Measurement/reference elevation taken from notch on top north side of well casing
2 = Elevation referenced to an arbitrary bench mark
---- = Not measured
Well depth = Measurement from top of casing to bottom of well

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #527
601 RIVERSIDE BOULEVARD, ROSEVILLE, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing)[1]	Depth to Ground water[1]	Ground Water Elevation[2]	Well Depth
MW-2 (cont.)	2/1/96		11.02	130.02	23.19
	4/10/96	141.04	10.19	130.85	23.19
	7/17/96		11.05	129.99	23.18
	11/5/96		11.81	129.23	23.19
	1/28/97		9.55	131.49	23.17
	4/30/97		11.06	129.98	22.95
	7/24/97		11.37	129.67	22.95
	10/21/97		11.73	129.31	22.97
	1/19/98		10.45	130.59	22.98
	5/28/98		10.26	130.78	----
	7/21/98		10.92	130.12	22.97
	11/4/98		11.54	129.50	22.99
	1/25/99		11.46	129.58	22.97
	8/12/99		11.35	129.69	22.94
	11/1/99		11.74	129.30	22.93
	3/7/00		9.60	131.44	22.93
	5/10/00		10.61	130.43	22.93
	9/14/00		11.75	129.29	22.93
	1/17/01		12.30	128.74	22.93
	3/26/01		11.61	129.43	22.93
	6/18/01		11.82	129.22	22.98
	8/6/01		11.71	129.33	22.98
MW-3	07/26/93	140.82	28.42	112.40	
	9/28/93		28.31	112.51	
	12/21/93		28.57	112.25	
	2/10/94		28.72	112.10	39.71
	4/23/94		28.67	112.15	39.70
	7/25/94		28/87	111.95	39.70
	10/13/94		28.92	111.90	39.48
	1/12/95		29.07	111.75	39.47
	4/11/95		28.26	112.56	39.51
	8/05/95		27.98	112.84	39.71
	10/31/95		26.21	114.61	39.74
	2/01/96		28.46	112.36	39.73
	4/10/96		28.19	112.63	39.74
	7/17/96		28.06	112.76	39.69
	11/05/96		28.41	112.41	39.68
	1/28/97		28.22	112.60	39.65
	4/30/97		28.06	112.76	39.55
	7/24/97		28.22	112.60	39.54
	10/21/97		28.56	112.26	39.58
	1/19/98		28.55	112.27	39.54
	5/28/98		26.61	114.21	----
	7/21/98		27.82	113.00	39.53

NOTES: 1 = Measurement/reference elevation taken from notch on top north side of well casing
2 = Elevation referenced to an arbitrary bench mark
--- = Not measured
Well depth = Measurement from top of casing to bottom of well

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #527
601 RIVERSIDE BOULEVARD, ROSEVILLE, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing)[1]	Depth to Ground water[1]	Ground Water Elevation[2]	Well Depth
MW-3 (cont.)	11/04/98	140.82	27.87	112.95	39.54
	1/25/99		28.05	112.77	39.53
	8/12/99		28.21	112.61	39.54
	11/01/99		28.31	112.51	39.54
	3/7/00		28.36	112.46	39.54
	5/10/00		28.09	112.73	39.54
	9/14/00		28.17	112.65	39.54
	1/17/01		28.52	112.30	35.53
	3/26/01		28.62	112.20	35.53
	6/18/01		28.64	112.18	39.53
	8/6/01		28.75	112.07	39.54
MW-4	5/28/98	142.00	27.71	114.29	----
	7/21/98		26.89	115.11	37.93
	11/04/98		27.16	114.84	37.91
	1/25/99		26.76	115.24	37.90
	8/12/99		24.18	114.82	37.88
	11/01/99		27.10	114.90	37.87
	3/7/00		26.65	115.35	37.83
	5/10/00		26.40	115.60	37.83
	9/14/00		26.45	115.55	37.83
	1/17/01		27.21	114.79	37.38
	3/26/01		26.90	115.10	37.83
	6/18/01		26.83	115.17	37.92
	8/6/01		27.05	114.95	37.93
MW-5	3/7/00	134.75	4.81	129.94	22.53
	5/10/00		5.08	129.67	22.53
	9/14/00		5.22	129.53	22.53
	1/17/01		5.09	129.66	22.53
	3/26/01		5.01	129.74	22.53
	6/18/01		4.97	129.78	
	8/6/01		4.37	130.38	22.50

NOTES: 1 = Measurement/reference elevation taken from notch on top north side of well casing
2 = Elevation referenced to an arbitrary bench mark
---- = Not measured
Well depth = Measurement from top of casing to bottom of well

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #527
601 RIVERSIDE BOULEVARD, ROSEVILLE, CALIFORNIA
(All Results in micrograms per Liter)

Monitoring Well	Date Colleted	Total Petroleum Hydrocarbons	Aromatic Volatile Organics										
		Gasoline	MTBE	DIPE	ETBE	TAME	Tert-Butanol	Methanol	Ethanol	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-1	7/26/93	<50	NA			NA	NA	NA	NA	<0.5	<0.5	<0.5	0.64
	12/21/93	<50	NA			NA	NA	NA	NA	<0.5	<0.5	<0.5	<0.5
	2/10/94	<50	NA			NA	NA	NA	NA	<0.5	<0.5	<0.5	<0.5
	4/23/94	<50	NA			NA	NA	NA	NA	<0.5	<0.5	<0.5	<0.5
	7/25/94	<50	NA			NA	NA	NA	NA	<0.5	<0.5	<0.5	<0.5
	10/1394	<50	NA			NA	NA	NA	NA	<0.5	<0.5	<0.5	<0.5
	1/12/95	<50	NA			NA	NA	NA	NA	<0.5	<0.5	<0.5	<0.5
	4/11/95	<50	NA			NA	NA	NA	NA	<0.5	<0.5	<0.5	<0.5
	8/5/95	<50	NA			NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
	10/31/95	<50	NA			NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
	2/1/96	<50	NA			NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
	4/10/96	<50	NA			NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
	7/17/96	<50	<5.0			NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
	11/5/96	<50	<5.0			NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
	1/28/97	<50	<5.0			NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
	4/30/97	<50	<5.0			NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
	7/24/97	<50	<5.0			NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
	10/21/97	<50	<5.0			NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
	1/19/98	<50	<5.0			NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
	5/2898	<1.0	0.15			NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
	7/21/98	<50	<0.50			<0.50	<5.0	<100	NA	<0.50	<0.50	<0.50	<0.50
	11/4/98	<50	<5.0			NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
	1/25/99	<50	<5.0			NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
	8/12/99	<50	<5.0			NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
	11/1/99	<50	<0.50			<0.50	<5.0	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	3/07/00	<50	<0.50			<0.50	<5.0	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/10/00	<50	<0.50			<0.50	<5.0	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	9/14/00	<50	<0.50			<0.50	<5.0	95	<0.50	<0.50	<0.50	<0.50	<0.50
	01/17/01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	3/26/01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	6/18/01	<50	<0.50	NA	NA	NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
MW-2	7/26/93	470	NA			NA	NA	NA	NA	10	2.8	38	89

NOTES: MTBE[1] = Methyl-Tertiary-Butyl Ether.
< = Below indicated detection limit.
NS = Not sampled.
NA = Sample not Analyzed for this Analyte.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #527
601 RIVERSIDE BOULEVARD, ROSEVILLE, CALIFORNIA
(All Results in micrograms per Liter)

Monitoring Well	Date Colleted	Total Petroleum Hydrocarbons	Aromatic Volatile Organics										
		Gasoline	MTBE	DIPE	ETBE	TAME	Tert-Butanol	Methanol	Ethanol	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-2 (continued)	12/21/93	510	NA			NA	NA	NA	NA	10	<0.5	32	67
	2/10/94	1,700	NA			NA	NA	NA	NA	27	0.99	130	160
	4/23/94	2,200	NA			NA	NA	NA	NA	53	21	280	430
	725/94	1,500	NA			NA	NA	NA	NA	46	11	190	190
	10/13/94	1,200	NA			NA	NA	NA	NA	39	1.3	170	100
	1/12/95	2,300	NA			NA	NA	NA	NA	78	2.2	210	650
	4/11/95	2,600	NA			NA	NA	NA	NA	48	53	220	870
	8/05/95	340	NA			NA	NA	NA	NA	7.2	<0.50	24	65
	10/31/95	450	NA			NA	NA	NA	NA	14	<0.50	27	31
	2/01/96	590	NA			NA	NA	NA	NA	12	<0.50	44	97
	4/10/96	2,300	NA			NA	NA	NA	NA	53	13	250	490
	7/17/96	1,500	<13			NA	NA	NA	NA	27	<1.3	140	270
	11/05/96	470	<5.0			NA	NA	NA	NA	41	0.56	38	1.9
	1/28/97	2,700	<13			NA	NA	NA	NA	44	<1.3	230	510
	4/30/97	1,800	<13			NA	NA	NA	NA	56	7.8	170	54
	7/24/97	200	<5.0			NA	NA	NA	NA	4.6	<0.50	5.4	18
	10/21/97	730	<5.0			NA	NA	NA	NA	56	1.1	120	7.9
	1/19/98	850	<5.0			NA	NA	NA	NA	19	1.8	83	99
	5/28/98	600	<5.0			NA	NA	NA	NA	15	1.3	66	53
	7/21/98	330	<0.50			<0.50	<5.0	<5.0	NA	11	<0.50	40	21
	11/04/98	180	<5.0			NA	NA	NA	NA	5.4	<0.50	18	5.2
	1/25/99	56	<5.0			NA	NA	NA	NA	4.8	<0.50	5.6	2.9
	8/12/99	1,100	<5.0			NA	NA	NA	NA	53	20	95	27
	11/01/99	200	0.82			<0.50	<5.0	<50	<5.0	2.9	<0.50	0.95	<0.50
	3/07/00	880	1.5			<0.50	<5.0	<50	<25	9.1	<0.50	44	6.4
	5/10/00	540	0.51			<0.50	<5.0	<50	<5.0	5.9	0.80	34	17
	9/14/00	91	<0.50			<0.50	<5.0	<50	<5.0	0.60	<0.50	0.59	<0.50
	1/17/01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	3/26/01	210	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<5.0	2.2	<0.50	2.3	<0.50
	6/18/01	<50	<0.50	NA	NA	NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
MW-3	7/26/93	<50	NA			NA	NA	NA	NA	<0.5	<0.5	0.70	2.5
	12/21/93	<50	NA			NA	NA	NA	NA	<0.5	<0.5	<0.5	<0.5

NOTES: MTBE[1] = Methyl-Tertiary-Butyl Ether.
< = Below indicated detection limit.
NS = Not sampled.
NA = Sample not Analyzed for this Analyte.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #527
601 RIVERSIDE BOULEVARD, ROSEVILLE, CALIFORNIA
(All Results in micrograms per Liter)

Monitoring Well	Date Colleted	Total Petroleum Hydrocarbons	Aromatic Volatile Organics										
		Gasoline	MTBE	DIPE	ETBE	TAME	Tert-Butanol	Methanol	Ethanol	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-3 continued	2/10/94	<50	NA			NA	NA	NA	NA	<0.5	<0.5	<0.5	<0.5
	4/23/94	<50	NA			NA	NA	NA	NA	<0.5	<0.5	<0.5	<0.5
	10/13/94	<50	NA						NA	4.7	44	13	62
	1/12/95	<50	NA						NA	<0.5	<0.5	<0.5	<0.5
	4/11/95	<50	NA						NA	<0.5	<0.5	<0.5	<0.5
	8/05/95	<50	NA						NA	<0.50	<0.50	<0.50	<0.50
	10/31/95	<50	NA						NA	<0.50	<0.50	<0.50	<0.50
	2/01/96	<50	NA						NA	<0.50	<0.50	<0.50	<0.50
	4/10/96	<50	NA						NA	<0.50	<0.50	<0.50	<0.50
	7/17/96	<50	<5.0						NA	<0.50	<0.50	<0.50	<0.50
	11/05/96	<50	<5.0						NA	<0.50	<0.50	<0.50	<0.50
	1/28/97	<50	<5.0						NA	<0.50	<0.50	<0.50	<0.50
	4/30897	<50	<5.0						NA	<0.50	<0.50	<0.50	<0.50
	7/24/97	<50	<5.0						NA	<0.50	<0.50	<0.50	<0.50
	10/21/97	<50	<5.0						NA	<0.50	<0.50	<0.50	<0.50
	1/19/98	<50	<5.0						NA	<0.50	<0.50	<0.50	<0.50
	5/28/98	<50	<5.0						NA	<0.50	<0.50	<0.50	<0.50
	7/21/98	<50	<0.50			<0.50	<5.0	<100	NA	<0.50	<0.50	<0.50	<0.50
	11/04/98	<50	<5.0			NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
	1/25/99	<50	<5.0			NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
	8/12/99	<50	<5.0			NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
	11/01/99	<50	<0.50			<0.50	<5.0	<50	NA	<0.50	<0.50	<0.50	<0.50
	3/07/00	<50	0.72			<0.50	<5.0	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/10/00	<50	<0.50			<0.50	<5.0	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	9/14/00	<50	<0.50			<0.50	<5.0	120	<5.0	<0.50	<0.50	<0.50	<0.50
	1/17/01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	64	<5.0	<0.50	<0.50	<0.50	<0.50
	3/26/01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	6/18/01	<50	<0.50	NA	NA	NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50
MW-4	5/28/98	5,400	1,600			NA	NA	NA	NA	460	270	42	740
	7/21/98	13,000	1,900			21	320	7,200	NA	1,300	1,400	460	2,800
	11/04/98	12,000	2,200			NA	NA	NA	NA	860	1,200	530	2,000

NOTES: MTBE[1] = Methyl-Tertiary-Butyl Ether.
< = Below indicated detection limit.
NS = Not sampled.
NA = Sample not Analyzed for this Analyte.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #527
601 RIVERSIDE BOULEVARD, ROSEVILLE, CALIFORNIA
(All Results in micrograms per Liter)

Monitoring Well	Date Colleted	Total Petroleum Hydrocarbons	Aromatic Volatile Organics										
		Gasoline	MTBE	DIPE	ETBE	TAME	Tert-Butanol	Methanol	Ethanol	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-4 continued	1/25/99	12,000	2,100			NA	NA	NA	NA	660	910	480	2,500
	8/12/99	9,000	2,000			NA	NA	NA	NA	290	300	250	1,300
	11/01/99	6,600	1,500			12	160	2,200	<20	270	99	180	540
	3/7/00	1,600	305			3.9	38	<1,000	<50	49	34	33	220
	5/10/00	1,600	300			1.7	28	<100	<5.0	58	18	41	120
	9/14/00	3800	730			6.8	78	<50	<5.0	97	26	57	150
	1/17/01	3500	970	<2.0	<2.0	7.6	99	<200	<20	110	24	20	220
	3/26/01	1500	460	<0.50	<0.50	4.6	48	<150	<5.0	57	9.4	4.8	82
	6/18/01	2700	410	NA	NA	NA	NA	NA	NA	100	17	11	160
MW-5	3/7/00	<50	1.0			<0.50	<5.0	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	5/10/00	<50	<0.50			<0.50	<5.0	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	9/14/00	<50	<0.50			<0.50	<5.0	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	1/17/01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	3/26/01	<50	<0.50	<0.50	<0.50	<0.50	<5.0	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	6/18/01	<50	1.2	NA	NA	NA	NA	NA	NA	<0.50	<0.50	<0.50	<0.50

NOTES: MTBE[1] = Methyl-Tertiary-Butyl Ether.
< = Below indicated detection limit.
NS = Not sampled.
NA = Sample not Analyzed for this Analyte.

ENCLOSURE E

Remediation System Analytical Results

KIFF ANALYTICAL LLC

Report Number : 31186
Date : 2/6/03

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 3 Air Samples
Project Name : Former Beacon 3720
Project Number : 67106
P.O. Number : 67106

Dear Mr. Munsch,

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

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

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 31186

Date : 2/6/03

Project Name : **Former Beacon 3720**

Project Number : **67106**

Sample : **SVE-Inf** Matrix : Air Lab Number : 31186-01

Sample Date :1/29/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.050**	0.050	Molar ppm	EPA 8260B	1/30/03
Toluene	**0.11**	0.050	Molar ppm	EPA 8260B	1/30/03
Ethylbenzene	**< 0.050**	0.050	Molar ppm	EPA 8260B	1/30/03
Total Xylenes	**0.071**	0.050	Molar ppm	EPA 8260B	1/30/03
TPH as Gasoline	**< 5.0**	5.0	Molar ppm	EPA 8260B	1/30/03
Toluene - d8 (Surr)	97.1		% Recovery	EPA 8260B	1/30/03
4-Bromofluorobenzene (Surr)	92.2		% Recovery	EPA 8260B	1/30/03

Sample : **SVE-MID2** Matrix : Air Lab Number : 31186-02

Sample Date :1/29/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.050**	0.050	Molar ppm	EPA 8260B	1/30/03
Toluene	**< 0.050**	0.050	Molar ppm	EPA 8260B	1/30/03
Ethylbenzene	**< 0.050**	0.050	Molar ppm	EPA 8260B	1/30/03
Total Xylenes	**< 0.050**	0.050	Molar ppm	EPA 8260B	1/30/03
TPH as Gasoline	**< 5.0**	5.0	Molar ppm	EPA 8260B	1/30/03
Toluene - d8 (Surr)	88.9		% Recovery	EPA 8260B	1/30/03
4-Bromofluorobenzene (Surr)	98.8		% Recovery	EPA 8260B	1/30/03

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 31186

Date : 2/6/03

Project Name : **Former Beacon 3720**

Project Number : **67106**

Sample : **SVE-Eff** Matrix : Air Lab Number : 31186-03

Sample Date :1/29/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.050**	0.050	Molar ppm	EPA 8260B	1/30/03
Toluene	**< 0.050**	0.050	Molar ppm	EPA 8260B	1/30/03
Ethylbenzene	**< 0.050**	0.050	Molar ppm	EPA 8260B	1/30/03
Total Xylenes	**< 0.050**	0.050	Molar ppm	EPA 8260B	1/30/03
TPH as Gasoline	**< 5.0**	5.0	Molar ppm	EPA 8260B	1/30/03
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	1/30/03
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	1/30/03

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

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

Lab No. 31186 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Richard Munch
Company/Address: RMA Environmental
Phone No.: (916) 771-7076 FAX No.: (916) 771-7084
Project Number: 67106 P.O. No: 67106
Project Name: Former Beacon 3720
Project Address: San Lorenzo CA

California EDF Report? ☐ Yes ☐ No

Recommended but not mandatory to complete this section:
Sampling Company Log Code:
Global ID:
EDF Deliverable To (Email Address):
Sampler Signature:

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: SLEEVE	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	Matrix: Air	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: 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
SVE-Inf	1/29/03	1:20			1							1					X												-01
SVE-Mid	1/29/03				1							1					X												-02
SVE-Eff	1/29/03	1:16			1							1					X												-03

Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	01/30/03	1110	John Cuttle / Kiff Analytical

Remarks: STAT

Bill to: Tesoro Petroleum / Rob Pearson

Distribution: White - Lab, Yellow - File, Pink - Originator

Forms/coc 121001.fh9

KIFF ANALYTICAL LLC

Report Number : 31631
Date : 2/27/2003

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 3 Air Samples
Project Name : 67106
Project Number : 67106
P.O. Number : 67106

Dear Mr. Munsch,

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

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

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 31631
Date : 2/27/2003

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

Sample : **SVE-Inf** Matrix : Air Lab Number : 31631-01
Sample Date :2/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.050**	0.050	ppmv	EPA 8260B	2/21/2003
Toluene	**0.19**	0.050	ppmv	EPA 8260B	2/21/2003
Ethylbenzene	**< 0.050**	0.050	ppmv	EPA 8260B	2/21/2003
Total Xylenes	**0.17**	0.050	ppmv	EPA 8260B	2/21/2003
Methyl-t-butyl ether	**0.61**	0.10	ppmv	EPA 8260B	2/21/2003
TPH as Gasoline	**< 5.0**	5.0	ppmv	EPA 8260B	2/21/2003
Toluene - d8 (Surr)	97.7		% Recovery	EPA 8260B	2/21/2003
4-Bromofluorobenzene (Surr)	96.0		% Recovery	EPA 8260B	2/21/2003

Sample : **SVE-MID** Matrix : Air Lab Number : 31631-02
Sample Date :2/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.050**	0.050	ppmv	EPA 8260B	2/21/2003
Toluene	**< 0.050**	0.050	ppmv	EPA 8260B	2/21/2003
Ethylbenzene	**< 0.050**	0.050	ppmv	EPA 8260B	2/21/2003
Total Xylenes	**< 0.050**	0.050	ppmv	EPA 8260B	2/21/2003
Methyl-t-butyl ether	**< 0.10**	0.10	ppmv	EPA 8260B	2/21/2003
TPH as Gasoline	**< 5.0**	5.0	ppmv	EPA 8260B	2/21/2003
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	2/21/2003
4-Bromofluorobenzene (Surr)	95.3		% Recovery	EPA 8260B	2/21/2003

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 31631
Date : 2/27/2003

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

Sample : **SVE-Eff** Matrix : Air Lab Number : 31631-03

Sample Date :2/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.050**	0.050	ppmv	EPA 8260B	2/22/2003
Toluene	**< 0.050**	0.050	ppmv	EPA 8260B	2/22/2003
Ethylbenzene	**< 0.050**	0.050	ppmv	EPA 8260B	2/22/2003
Total Xylenes	**< 0.050**	0.050	ppmv	EPA 8260B	2/22/2003
Methyl-t-butyl ether	**< 0.10**	0.10	ppmv	EPA 8260B	2/22/2003
TPH as Gasoline	**< 5.0**	5.0	ppmv	EPA 8260B	2/22/2003
Toluene - d8 (Surr)	98.7		% Recovery	EPA 8260B	2/22/2003
4-Bromofluorobenzene (Surr)	96.1		% Recovery	EPA 8260B	2/22/2003

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

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

Lab No. 31631 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Richard P. Munsch
Company/Address: RPM Environmental
Phone No.: (916) 771-7098 FAX No.: (916) 771-4584
Project Number: 67106 P.O. No.: 67106
Project Name: 67106
Project Address: 1088 Marina Blvd San Leandro

California EDF Report? ☐ Yes ☐ No
Recommended but not mandatory to complete this section:
Sampling Company Log Code: - - -
Global ID: - - - - - - - - - - - - - - -
EDF Deliverable To (Email Address):
Sampler Signature: [signature]

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Container: Tedlar	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	Matrix: Air	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: 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
✓ SVE-Inf	2/20/07	3:20			1				X			X					X										-01
✓ SVE-Mid	2/20/07	3:28			1				X			X					X										-02
✓ SVE-Eff	2/20/07	3:16			1				X			X					X										-03

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Relinquished by: Date Time Received by:
Relinquished by: Date 022107 Time 0946 Received by Laboratory: [signature] KIFF Analytical

Remarks: STAT

Bill to: Tesoro Petroleum / Rob Ponsuan

Distribution: White - Lab, Yellow - File, Pink - Originator

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KIFF ANALYTICAL LLC

Report Number : 32312
Date : 3/28/2003

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 3 Air Samples
Project Name : Tesoro Station 67106
Project Number : 67106
P.O. Number : 67106

Dear Mr. Munsch,

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

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

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 32312
Date : 3/28/2003

Project Name : **Tesoro Station 67106**
Project Number : **67106**

Sample : **SVE-Inf** Matrix : Air Lab Number : 32312-01
Sample Date :3/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.050**	0.050	Molar ppm	EPA 8260B	3/22/2003
Toluene	**0.12**	0.050	Molar ppm	EPA 8260B	3/22/2003
Ethylbenzene	**< 0.050**	0.050	Molar ppm	EPA 8260B	3/22/2003
Total Xylenes	**0.11**	0.050	Molar ppm	EPA 8260B	3/22/2003
Methyl-t-butyl ether	**0.59**	0.10	Molar ppm	EPA 8260B	3/22/2003
TPH as Gasoline	**< 5.0**	5.0	Molar ppm	EPA 8260B	3/22/2003
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	3/22/2003
4-Bromofluorobenzene (Surr)	90.6		% Recovery	EPA 8260B	3/22/2003

Sample : **SVE-MID** Matrix : Air Lab Number : 32312-02
Sample Date :3/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.050**	0.050	Molar ppm	EPA 8260B	3/22/2003
Toluene	**< 0.050**	0.050	Molar ppm	EPA 8260B	3/22/2003
Ethylbenzene	**< 0.050**	0.050	Molar ppm	EPA 8260B	3/22/2003
Total Xylenes	**< 0.050**	0.050	Molar ppm	EPA 8260B	3/22/2003
Methyl-t-butyl ether	**< 0.10**	0.10	Molar ppm	EPA 8260B	3/22/2003
TPH as Gasoline	**< 5.0**	5.0	Molar ppm	EPA 8260B	3/22/2003
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	3/22/2003
4-Bromofluorobenzene (Surr)	89.4		% Recovery	EPA 8260B	3/22/2003

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 32312

Date : 3/28/2003

Project Name : **Tesoro Station 67106**

Project Number : **67106**

Sample : **SVE-Eff** Matrix : Air Lab Number : 32312-03

Sample Date :3/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.050**	0.050	Molar ppm	EPA 8260B	3/22/2003
Toluene	**< 0.050**	0.050	Molar ppm	EPA 8260B	3/22/2003
Ethylbenzene	**< 0.050**	0.050	Molar ppm	EPA 8260B	3/22/2003
Total Xylenes	**< 0.050**	0.050	Molar ppm	EPA 8260B	3/22/2003
Methyl-t-butyl ether	**< 0.10**	0.10	Molar ppm	EPA 8260B	3/22/2003
TPH as Gasoline	**< 5.0**	5.0	Molar ppm	EPA 8260B	3/22/2003
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	3/22/2003
4-Bromofluorobenzene (Surr)	91.5		% Recovery	EPA 8260B	3/22/2003

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

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

Lab No. 32312 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Richard Munsch
Company/Address: RMM Environmental
Phone No.: (916) 771-7098 FAX No.: (916) 771-7384
Project Number: 67106 P.O. No: 67106
Project Name: Teson Station 67106
Project Address: San Leandro CA

California EDF Report? ☐ Yes ☐ No
Recommended but not mandatory to complete this section:
Sampling Company Log Code:
Global ID:
EDF Deliverable To (Email Address):
Sampler Signature:

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Container: Tedlar	Container:	Container:	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	Matrix: Air	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: 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
SVE-Inf	3/21/03	4:20			X									X					X																	01
SVE-Min	3/21/03	4:18			X									X					X																	02
SVE-Eff	3/21/03	4:16			X									X					X																	03

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Relinquished by: Date Time Received by:
Relinquished by: Date 03/21/03 Time 1315 Received by Laboratory: John Cuttle / Kiff Analytical

Remarks: STAT

Bill to: Teson Petroleum / Rob Donovan

Distribution: White - Lab, Yellow - File, Pink - Originator

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CONTACT SITE ADMINISTRATOR.