

Kelleher & Associates
Environmental Management

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September 4, 2002

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

Alameda County
SEP 06 2002
Environmental Health

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

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 Second Quarter 2002* dated August 5, 2002.

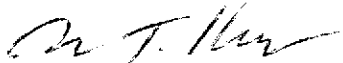
As an authorized representative of Tesoro Petroleum and Refining Company (Tesoro), I have reviewed the enclosed report and declare under penalty of perjury that to the best of my knowledge the information contained in the report is true and correct.

The report covers the groundwater-monitoring event Douglas Environmental conducted on June 3, 2002 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 quarterly monitoring event is scheduled for September 2002.

The report also covers operation of sparging-enhanced soil vapor extraction (SESVE) remedial processes during the second quarter 2002. During this period the SESVE system extracted 8 pounds of gasoline vapors. Tesoro has contracted RDM to continue operations through the end of the calendar year.

Please note that Tesoro purchased the business interests in this site in April 2002 and that future lead-agency correspondence in connection with the site should be sent to Tesoro with copies to Ultramar and Kelleher & Associates (*see above address*). Please call me at (408) 528-7719 if you have any questions or need additional information.

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

August 5, 2002

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

Alameda County
SEP 06 2002
Environmental Health

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

Subject: *Quarterly Ground Water Monitoring and
Remediation System Status Report, Second Quarter 2002*
Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California
RDM Project No. 00-3720

Dear Mr. Seery:

On Behalf of Tesoro Refining and Marketing Company, RDM Environmental (RDM) is submitting 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 **Second Quarter 2002**.

Work Performed During the Second Quarter 2002:

- Doulos Environmental Inc. performed ground water sampling on **June 3, 2002**.
- RDM continued operation and maintenance on the remediation system.

STATUS OF GROUND WATER MONITORING

Cumulative ground water sampling information is tabulated in Table 1. Historical analytical results from interim remediation are included in Table 2. A site topographic map, site map, ground water elevation contour map and concentration map are shown as Figures 1 through 4, respectively. The site history is included in Enclosure A, the quarterly monitoring data sheets are included in Enclosure B and the ground water analytical results are included in Enclosure C. 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 5.

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Operation & Maintenance Site Visits:

- Operation and maintenance site visits were conducted for the **Second Quarter 2002** on:
 - **April 12 and 18, 2002**
 - **May 13 and 24, 2002**
 - **June 13 and 21, 2002**

Ground Water Extraction System Performance:

- The ground water treatment system did not operate during the **Second Quarter 2002**.
- During the **Second Quarter 2002**, 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 has processed approximately **228,500** gallons.
- Due to the elevated concentrations reported in recent ground water sampling events, Tesoro may start-up the ground water system in the future. The sanitary sewer agency will be notified of system modification or system start-up.
- 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 **Second Quarter 2002**.
- During the **Second Quarter 2002**, the SVE system removed approximately **8.0** pounds of vapor equivalent gasoline.
- As of **June 13, 2002**, the SVE system has removed approximately **2,538** pounds (416 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 3 and the SVE performance data is included in Table 4. Remediation system analytical results are included in Enclosure E.

Air Sparging System Performance:

- The air sparging system operated continuously during the **Second Quarter 2002**.
- Air sparging system is connected to sparge points SP-1 through SP-6.

CONCLUSIONS/RECOMMENDATIONS


RDM recommends continued operation of the remediation system and quarterly ground water monitoring.

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.

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Department of Environmental Health
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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 (3720 2Q GWM 5-23-02)

cc: Mr. Rob Donovan – Tesoro Petroleum
Mr. Paul Zolfarelli – City of San Leandro
Case Worker – California Regional Water Quality Control Board – San Francisco Bay Region

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. 67107
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)	Comments
MW-1	03/12/98	33.10	11.09	22.01	<0.5	<0.5	5.0	2.8	100	<5.0	No sheen
	05/28/98		11.36	21.74	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	08/31/98		12.61	20.49	<0.5	<0.5	6.4	1.4	130	<5.0	No sheen
	11/19/98		13.84	19.26	0.75	<0.5	<0.5	3.0	120	<5.0	No sheen
	03/15/99		11.95	21.15	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	06/07/99		13.45	19.65	1.6	1.9	230	110	5,200	<5.0	No sheen
	09/07/99		13.10	20.00	1.0	<0.5	22	15	490	<5.0	No sheen
	12/13/99		14.29	18.81	<2.5	<2.5	170	110	4,100	<25	No sheen
	03/08/00		11.22	21.88	<0.5	<0.5	21	7.7	1,200	150	No sheen
	06/12/00		12.85	20.25	1.5	0.9	160	98	3,000	34	No sheen
	11/15/00		14.19	18.91	<20	<20	470	390	8,500	14,000	No sheen
	02/27/01		12.35	20.75	5.4	2.6	260	190	6,100	4,300	No sheen
	05/22/01		14.18	18.92	8.9	13	1,100	1,300	21,000	2,300	No sheen
	09/05/01		13.70	19.10	<2.0	3.6	600	850	12,000	93	No sheen
	11/07/01		14.25	18.85	<5.0	<5.0	1,300	1,600	23,000	87	No sheen
	02/11/02	35.47	13.05	22.42	<0.5	<0.5	140	150	4,500	18	No sheen
06/03/02	13.31		22.16	<2.5	<2.5	520	460	12,000	12	No sheen	
MW-2	03/12/98	32.80	10.92	21.88	32	1.0	12	6.5	440	20	No sheen
	05/28/98		10.41	22.39	<0.5	<0.5	<0.5	<0.5	<50	27	No sheen
	08/31/98		12.29	20.51	9.3	0.95	4.9	8.8	270	20	No sheen
	11/19/98		13.47	19.33	16	0.72	<0.5	4.3	180	7.4	No sheen
	03/15/99		11.95	20.85	12	3.5	59	840	2,400	10	No sheen
	06/07/99		13.11	19.69	21	0.99	6.9	10	690	6.1	No sheen
	09/07/99		12.92	19.88	7.8	1.2	42	100	610	<5.0	No sheen
	12/13/99		13.96	18.84	26	0.93	52	96	3,000	<5.0	No sheen
	03/08/00		10.87	21.93	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	06/12/00		12.53	20.27	51	17	170	320	5,500	18	No sheen
	11/15/00		13.96	18.84	75	48	1,200	2,800	16,000	19,000	No sheen
	02/27/01		12.29	20.51	54	24	320	870	10,000	6,000	No sheen
	05/22/01		15.51	17.29	12	5.0	79	100	2,400	3,500	No sheen
	09/05/01		13.75	19.05	120	180	1,500	5,100	34,000	400	No sheen
	11/07/01		13.99	18.81	87	170	1,400	3,700	32,000	870	No sheen
	02/11/02	35.11	12.98	22.13	170	250	1,600	4,700	34,000	390	No sheen
06/03/02	13.24		21.87	130	260	1,700	5,100	29,000	110	No sheen	
MW-3	03/12/98	32.30	10.81	21.49	0.67	<0.5	7.1	3.4	1,200	7.3	No sheen
	05/28/98		11.45	20.85	<0.5	0.5	<0.5	<0.5	350	<5.0	No sheen
	08/31/98		12.21	20.09	<0.5	0.89	0.69	<0.5	240	<5.0	No sheen
	11/19/98		13.26	19.04	5.3	0.72	0.86	4.2	440	<5.0	No sheen
	03/15/99		11.89	20.41	3.3	1.3	0.77	<0.5	410	<5.0	No sheen
	06/07/99		12.91	19.39	<0.5	2.0	<0.5	0.66	680	<5.0	No sheen
	09/07/99		12.81	19.49	<0.5	0.62	<0.5	8.7	150	12	No sheen
	12/13/99		13.75	18.55	<0.5	0.52	<0.5	1.0	830	<5.0	No sheen
	03/08/00		11.39	20.91	0.58	<0.5	0.77	<0.5	960	<5.0	No sheen
	06/12/00		12.58	19.72	1.7	<0.5	46	6.3	1,700	<5.0	No sheen
	11/15/00		13.85	18.45	<200	<200	<200	<200	<20,000	84,000	No sheen
	02/27/01		12.22	20.08	98	<20	130	30	3,500	16,000	No sheen
	05/22/01		13.66	18.64	41	<20	20	<20	<2,000	5,800	No sheen
	09/05/01		13.41	18.89	9.9	1.5	49	8.2	5,300	430	No sheen
	11/07/01		13.85	18.45	9.4	1.8	47	8.8	6,500	1,600	No sheen
	02/11/02	34.84	12.86	21.98	8.9	<2.0	14	<2.0	2,400	530	No sheen
06/03/02	13.10		21.74	13	0.77	19	0.94	2,100	110	No sheen	

TABLE 1

GROUND WATER MONITORING DATA

Tesoro Station No. 67107
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)	Comments
MW-4	03/12/98	32.90	11.31	21.59	2,200	1,500	630	3,000	14,000	440	No sheen
	05/28/98		10.40	22.50	<0.5	0.75	0.68	6.9	67	26	No sheen
	08/31/98		12.54	20.36	1.8	2.5	0.65	3.4	<50	<5.0	No sheen
	11/19/98		13.99	18.91	<0.5	<0.5	<0.5	0.61	<50	17	No sheen
	03/15/99		12.06	20.84	1.2	1.6	0.76	4.5	160	9.3	No sheen
	06/07/99		13.57	19.33	210	370	350	2,000	5,800	<20	No sheen
	09/07/99		10.30	22.60	2.2	2.8	4.8	25	130	12	No sheen
	12/13/99		14.18	18.72	1.3	1.0	1.2	4.8	<50	12	No sheen
	03/08/00		11.77	21.13	78	200	160	750	3,700	11	No sheen
	06/12/00		13.47	19.43	<0.5	<0.5	<0.5	<0.5	<50	24	No sheen
	11/15/00		14.33	18.57	12	38	28	130	710	1,300	No sheen
	02/27/01		14.25	18.65	67	300	310	1,400	6,500	1,000	No sheen
	05/22/01		13.99	18.91	2.1	5.6	4.8	20	130	350	No sheen
	09/05/01		15.75	17.15	110	670	250	1,300	6,200	600	No sheen
	11/07/01		16.10	16.80	40	270	180	940	4,100	110	No sheen
	02/11/02		35.33	15.04	20.29	91	590	620	3,000	14,000	350
	06/03/02	13.61		21.72	69	390	190	1,100	4,300	240	No sheen
MW-5	03/12/98	32.70	11.11	21.59	2,600	160	470	2,200	12,000	<250	No sheen
	05/28/98		10.92	21.78	480	99	160	730	4,700	<250	No sheen
	08/31/98		12.79	19.91	200	14	55	220	1,400	180	No sheen
	11/19/98		13.39	19.31	1.4	<0.5	<0.5	<0.5	<50	39	No sheen
	03/15/99		11.71	20.99	320	17	290	780	3,400	33	No sheen
	06/07/99		13.26	19.44	220	8.9	240	290	3,200	<25	No sheen
	09/07/99		9.70	23.00	8.5	<0.5	8.5	12	140	38	No sheen
	12/13/99		14.06	18.64	<0.5	<0.5	<0.5	13	140	<5.0	No sheen
	03/08/00		11.80	20.90	0.66	<0.5	2.5	30	280	<5.0	No sheen
	06/12/00		12.99	19.71	22	1.2	79	170	2,700	6.4	No sheen
	11/15/00		14.23	18.47	36	1.6	180	180	4,500	10	No sheen
	02/27/01		12.66	20.04	33	1.6	160	220	2,800	110	No sheen
	05/22/01		13.58	19.12	49	2.2	180	230	3,200	240	No sheen
	09/05/01		14.05	18.65	28	1.0	100	100	2,400	560	No sheen
	11/07/01		14.32	18.38	<2.0	<2.0	2.1	20	390	590	No sheen
	02/11/02		35.09	13.31	21.78	19	<5.0	59	52	1,200	1,800
	06/03/02	13.55		21.54	44	<2.0	150	210	3,200	610	No sheen
MW-6	03/12/98	30.40	10.49	19.91	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	05/28/98		10.58	19.82	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	08/31/98		10.85	19.55	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	11/19/98		10.88	19.52	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	03/15/99		10.83	19.57	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	06/07/99		11.01	19.39	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	09/07/99		11.89	18.51	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	12/13/99		12.09	18.31	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	03/08/00		10.02	20.38	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	06/12/00		11.07	19.33	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	11/15/00		12.34	18.06	<0.5	<0.5	<0.5	<0.5	<50	<0.5	No sheen
	02/27/01		10.75	19.65	<0.5	<0.5	<0.5	<0.5	<50	<0.5	No sheen
	05/22/01		11.55	18.85	<0.5	<0.5	<0.5	<0.5	<50	<0.5	No sheen
	09/05/01		12.10	18.30	<0.5	<0.5	<0.5	<0.5	<50	<0.5	No sheen
	11/07/01		12.31	18.09	<0.5	<0.5	<0.5	<0.5	<50	<0.5	No sheen
	02/11/02		32.74	11.05	21.69	<0.5	<0.5	<0.5	<0.5	<50	<0.5
	06/03/02	11.70		21.40	<0.5	<0.5	<0.5	<0.5	<50	<0.5	No sheen

TABLE I

GROUND WATER MONITORING DATA

Tesoro Station No. 67107
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)	Comments
MW-7	03/12/98	31.20	10.14	21.06	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	05/28/98		10.93	20.27	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	08/31/98		12.01	19.19	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	11/19/98		12.54	18.66	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	03/15/99		10.94	20.26	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	06/07/99		12.05	19.15	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	09/07/99		12.67	18.53	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	12/13/99		12.73	18.47	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	03/08/00		10.90	20.30	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	06/12/00		12.61	18.59	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	11/15/00		13.06	18.14	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	02/27/01		11.85	19.35	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	05/22/01		12.31	18.89	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	09/05/01		12.85	18.35	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	11/07/01		12.75	18.45	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	02/11/02	33.64	NM	NC	NS	NS	NS	NS	NS	NS	
06/03/02	12.58	21.06	<0.5	<0.5	<0.5	<0.5	<50	0.95		No sheen	
MW-8	03/12/98	33.80	11.81	21.99	1.4	<0.5	<0.5	<0.5	72	<5.0	No sheen
	05/28/98		12.14	21.66	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	08/31/98		13.16	20.64	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	11/19/98		14.56	19.24	510	24	1,200	2,800	14,000	<5.0	No sheen
	03/15/99		12.40	21.40	160	16	910	2,100	14,000	<50	No sheen
	06/07/99		14.06	19.74	330	14	470	880	7,800	<50	No sheen
	09/07/99		14.01	19.79	150	2.6	260	370	3,200	<5.0	No sheen
	12/13/99		14.91	18.89	35	<5.0	280	730	6,700	<50	No sheen
	03/08/00		11.85	21.95	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	06/12/00		13.59	20.21	4.0	<0.5	4.9	2.1	140	<5.0	No sheen
	11/15/00		14.94	18.86	2.0	<0.5	3.1	2.6	100	110	No sheen
	02/27/01		NM	NC	NS	NS	NS	NS	NS	NS	Tank Over Well
	05/22/01		NM	NC	NS	NS	NS	NS	NS	NS	Tank Over Well
	09/05/01		14.68	19.12	160	<2.0	200	330	4,800	850	No sheen
	11/07/01		15.10	18.70	1.1	<1.0	2.0	6.1	<100	590	No sheen
	02/11/02	36.08	14.06	22.02	7.9	<5.0	16	22	<500	1,700	No sheen
06/03/02	14.25	21.83	20.0	<2.0	19	35	550	650	No sheen		
MW-9	03/12/98	32.56	10.93	21.63	320	23	180	720	3,700	190	No sheen
	05/28/98		11.31	21.25	110	6.4	87	300	2,200	220	No sheen
	08/31/98		12.16	20.40	240	23	690	1,900	11,000	<50	No sheen
	11/19/98		11.04	21.52	7.7	<0.5	10	22	280	67	No sheen
	03/15/99		11.81	20.75	<0.5	<0.5	<0.5	1.2	<50	<5.0	No sheen
	06/07/99		12.21	20.35	9.3	0.86	9.7	12	340	<5.0	No sheen
	09/07/99		10.10	22.46	0.76	<0.5	1.9	0.8	72	9.9	No sheen
	12/13/99		13.64	18.92	<0.5	<0.5	<0.5	<0.5	60	<5.0	No sheen
	03/08/00		10.88	21.68	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No sheen
	06/12/00		12.50	20.06	0.9	<0.5	2.7	1.3	640	10	No sheen
	11/15/00		13.60	18.96	<0.5	<0.5	0.69	<0.5	200	12	No sheen
	02/27/01		12.15	20.41	0.61	<0.5	2.2	1.2	360	42	No sheen
	05/22/01		13.20	19.36	0.57	<0.5	2.1	0.61	330	290	No sheen
	09/05/01		13.10	19.46	<2.0	<2.0	<2.0	<2.0	<200	1,100	No sheen
	11/07/01		13.85	18.71	1.0	<1.0	<1.0	<1.0	230	510	No sheen
	02/11/02	34.63	12.98	21.65	<0.5	<0.5	<0.5	<0.5	<50	41	No sheen
06/03/02	12.48	22.15	<0.5	<0.5	<0.5	<0.5	<50	55	No sheen		

a = Referenced to mean sea level.

TPH = Total petroleum hydrocarbons.

MTBE = Methyl tertiary butyl ether.

µg/L = Micrograms per liter.

TABLE 2

ADDITIONAL GROUND WATER MONITORING DATA

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

Monitoring Well	Date	Sample I.D.	Time	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH ^a as gasoline (µg/L)	MTBE ^b (µg/L)	DIPE ^c (µg/L)	ETBE ^d (µg/L)	TAME ^e (µg/L)	TBA ^f (µg/L)	Comments
MW-2	10/04/00	MW-2-IN	5:58 AM	150	<100	180	390	<10,000	91,000	NA	NA	NA	NA	
	10/04/00	MW-2-FI	8:50 AM	78	54	420	1,100	8,000	27,000	NA	NA	NA	NA	
	10/17/00	MW-2	9:45 AM	160	140	2,200	6,100	86,000	26,000	NA	NA	NA	NA	
	11/29/00	MW-2-IN	7:30 AM	62	66	1,000	3,800	19,000	12,000	NA	NA	NA	NA	
	11/29/00	MW-2-FI	2:20 PM	41	5.9	110	240	3,600	16,000	NA	NA	NA	NA	
	12/04/00	MW-2-IN	10:35 AM	87	82	1,300	4,400	22,000	7,900	<20	<20	<20	580	
	12/04/00	MW-2-FI	5:30 PM	51	<20	92	190	3,300	12,000	<20	<20	<20	990	
	05/21/01	MW-2	7:30 AM	74	85	500	2,000	13,000	930	NA	NA	NA	NA	
MW-3	10/04/00	MW-3-IN	8:40 AM	<200	<200	<200	<200	<20,000	150,000	NA	NA	NA	NA	
	10/04/00	MW-3-FI	9:20 AM	60	12	54	23	2,600	100,000	NA	NA	NA	NA	
	10/17/00	MW-3	10:20 AM	57	<50	50	<50	5,200	110,000	NA	NA	NA	NA	
	11/29/00	MW-3-IN	9:30 AM	94	<50	77	<50	<5,000	68,000	NA	NA	NA	NA	
	11/29/00	MW-3-FI	4:05 PM	<100	<100	<100	<100	<10,000	61,000	NA	NA	NA	NA	
	12/04/00	MW-3-IN	10:35 AM	93	<50	74	<50	<5,000	65,000	<50	<50	96	6,000	
	12/04/00	MW-3-FI	7:10 PM	<100	<100	<100	<100	<10,000	47,000	<100	<100	100	2,700	

a) Total Petroleum Hydrocarbon as gasoline

b) Methyl-t-butyl ether

c) Diisopropyl ether

d) Ethyl-t-butyl ether

e) Tert-amyl methyl ether

f) Tert Butanol

µg/L = Micrograms per liter.

TABLE 3

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 3

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
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

TABLE 3

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	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

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

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

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl- benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	02/09/00	0.45	3.1	0.52	2.8	59	NA
Mid-Carbon	02/09/00	0.18	<0.05	<0.05	<0.05	<5.0	NA
Effluent	02/09/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/16/00	0.10	3.5	0.54	4.1	46	NA
Mid-Carbon	03/16/00	0.83	0.31	<0.05	<0.05	22	NA
Effluent	03/16/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	04/04/00	0.17	1.9	0.29	2.0	23	NA
Mid	04/04/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	04/04/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	05/12/00	<0.05	0.059	<0.05	0.091	<5.0	NA
Mid	05/12/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	05/12/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
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

TABLE 3

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	11/29/00	<0.05	0.24	0.08	0.29	<5.0	NA
Mid	11/29/00	<0.05	0.07	<0.05	0.18	<5.0	NA
Effluent	11/29/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	12/07/00	<0.05	0.13	<0.05	0.064	<5.0	NA
Mid	12/07/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	12/07/00	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	01/07/01	0.12	0.85	0.16	0.92	17	NA
Mid	01/07/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	01/07/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	02/23/01	0.19	1.6	0.19	1.1	32	NA
Mid	02/23/01	<0.05	0.07	<0.05	<0.05	<5.0	NA
Effluent	02/23/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	03/01/01	0.97	1.2	0.13	0.64	18	NA
Mid	03/01/01	<0.05	0.053	<0.05	<0.098	<5.0	NA
Effluent	03/01/01	<0.05	0.053	<0.05	0.13	<5.0	NA
Influent	10/17/00	<0.05	0.075	<0.05	0.14	<5.0	NA
Mid-Carbon	10/17/00	<0.05	<0.05	<0.05	<0.05	<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-Carbon	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-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

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

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

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl- benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	03/01/01	0.97	1.2	0.13	0.64	18	NA
Mid-Carbon	03/01/01	<0.05	0.053	<0.05	0.098	<5.0	NA
Effluent	03/01/01	<0.05	0.11	<0.05	0.13	<5.0	NA
Influent	04/18/01	0.1	0.63	0.12	0.56	18	NA
Mid-Carbon	04/18/01	<0.05	<0.05	<0.05	0.078	<5.0	NA
Effluent	04/18/01	<0.05	<0.05	<0.05	0.11	<5.0	NA
Influent	05/21/01	0.088	1.0	0.31	1.5	20	NA
Mid-Carbon	05/21/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	05/21/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	06/05/01	0.15	1.5	0.36	1.6	24	NA
Mid-Carbon	06/05/01	<0.05	0.053	<0.05	0.098	9.1	NA
Effluent	06/05/01	<0.05	<0.05	<0.05	<0.05	5.6	NA
Influent	07/16/01	<0.05	0.11	<0.05	0.14	<5.0	NA
Mid-Carbon	07/16/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	07/16/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	08/24/01	0.15	1.1	0.16	0.71	19	NA
Mid-Carbon	08/24/01	<0.05	0.055	<0.05	<0.05	<5.0	NA
Effluent	08/24/01	<0.05	<0.05	<0.05	<0.05	<5.0	NA
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	0.076	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

TABLE 3

SVE SYSTEM ANALYTICAL RESULTS

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

Sample ID	Date	Benzene (ppmv)	Toluene (ppmv)	Ethyl- benzene (ppmv)	Total Xylenes (ppmv)	TPH as gasoline (ppmv)	MTBE (ppmv)
Influent	03/20/02	0.054	0.12	<0.05	<0.05	<5.0	NA
Mid-Carbon	03/20/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	03/20/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	04/18/02	<0.05	0.076	<0.05	0.092	<5.0	0.16
Mid-Carbon	04/18/02	<0.05	<0.05	<0.05	<0.05	<5.0	2.1
Effluent	04/18/02	<0.05	<0.05	<0.05	<0.05	<5.0	0.32
Influent	05/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Mid-Carbon	05/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	05/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Influent	06/13/02	<0.05	0.07	<0.05	<0.05	<5.0	NA
Mid-Carbon	06/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA
Effluent	06/13/02	<0.05	<0.05	<0.05	<0.05	<5.0	NA

TPH = Total petroleum hydrocarbons.

MTBE = methyl -t-butyl ether

mg/L = Micrograms per liter.

ppmv = parts per million by volume.

TABLE 4
SVE SYSTEM THROUGHPUT CALCULATIONS

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

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

TABLE 4
SVE SYSTEM THROUGHPUT CALCULATIONS

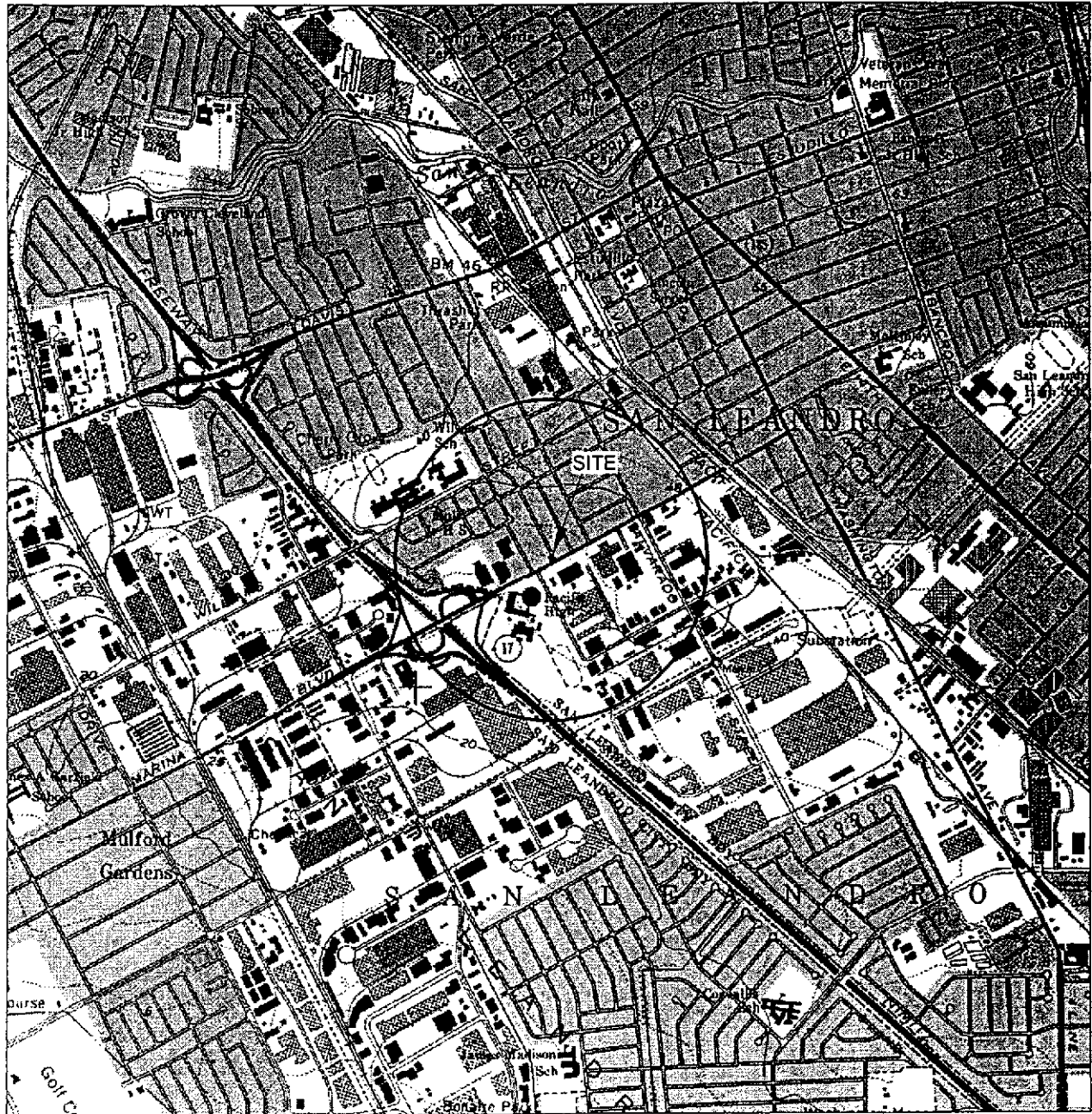
Tesoro Station No. 67106
Former Beacon Station No. 3720
1088 Marina Boulevard
San Leandro, California

Date	Influent	Effluent	TPH Influent (ppmv)	TPH Effluent (ppmv)	Benzene Influent (ppmv)	Benzene Effluent (ppmv)	TPH Removal (%)	Benzene Removal (%)	TPH	TPH	Benzene Extraction Rate (lbs/day)	Benzene Emission Rate (lbs/day)	FID or LAB	Cumulative	Cumulative	Change in Total Hours	Change in hours of operation
	Flow Rate (ft ³ /min)	Flow Rate (ft ³ /min)							Extraction Rate (lbs/day)	Mass Emission (lbs/day)				TPH Extraction (lbs)	TPH Extraction (gallons)		
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

* 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

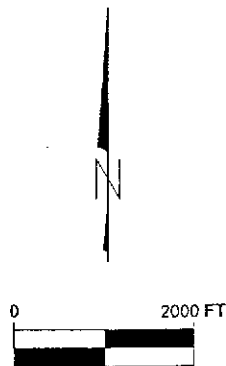


R.3 W.

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



QUADRANGLE LOCATION



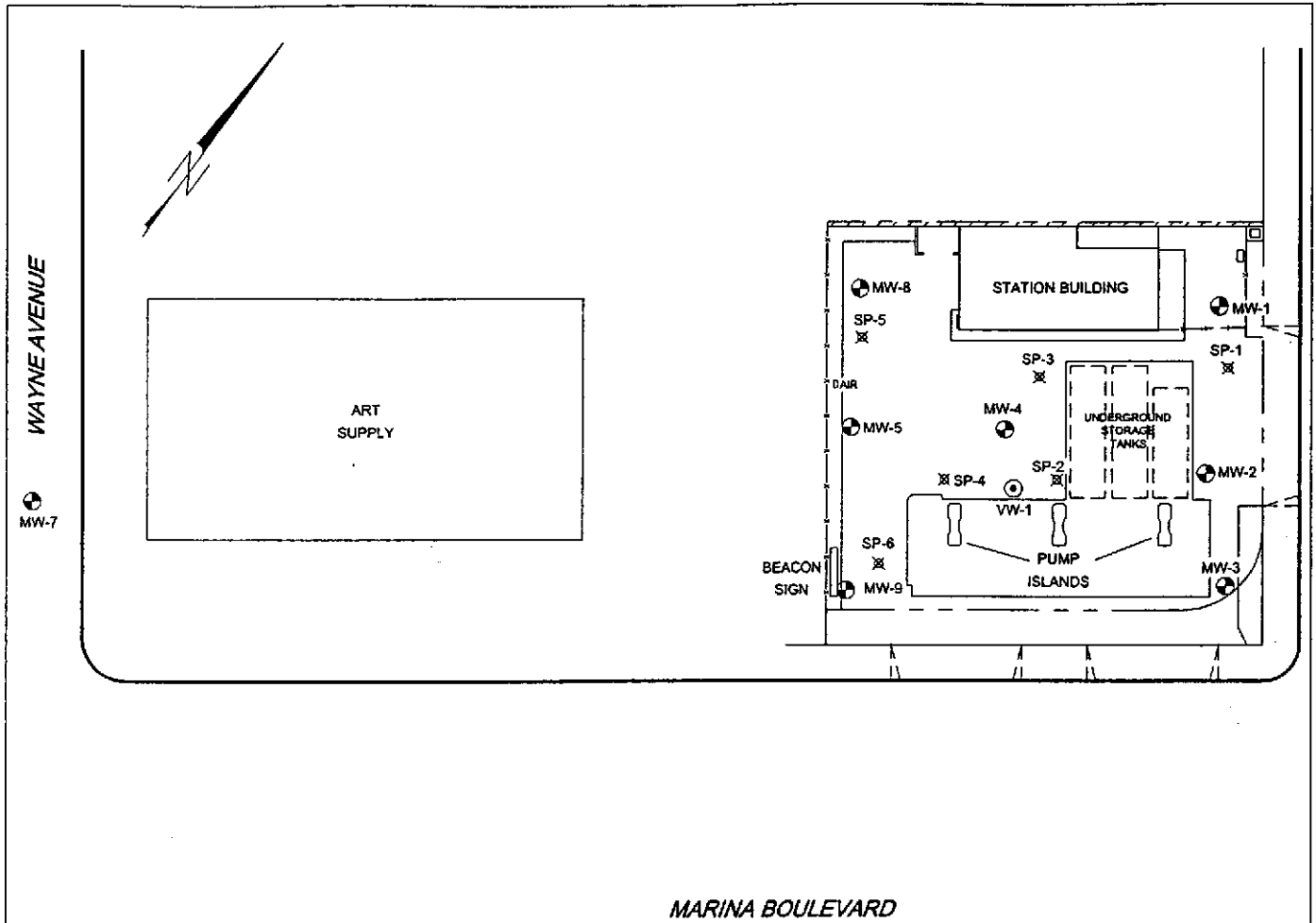
SCALE 1:24,000

FIGURE 1
 SITE LOCATION MAP

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

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





MARINA BOULEVARD

MW-6

LEGEND:

- PROPERTY LINE
- - - FENCE
- MW-1 MONITORING WELL LOCATION
- ⊙ VW-1 VAPOR EXTRACTION WELL LOCATION
- ⊗ SP-1 AIR SPARGING WELL LOCATION



NOTES:

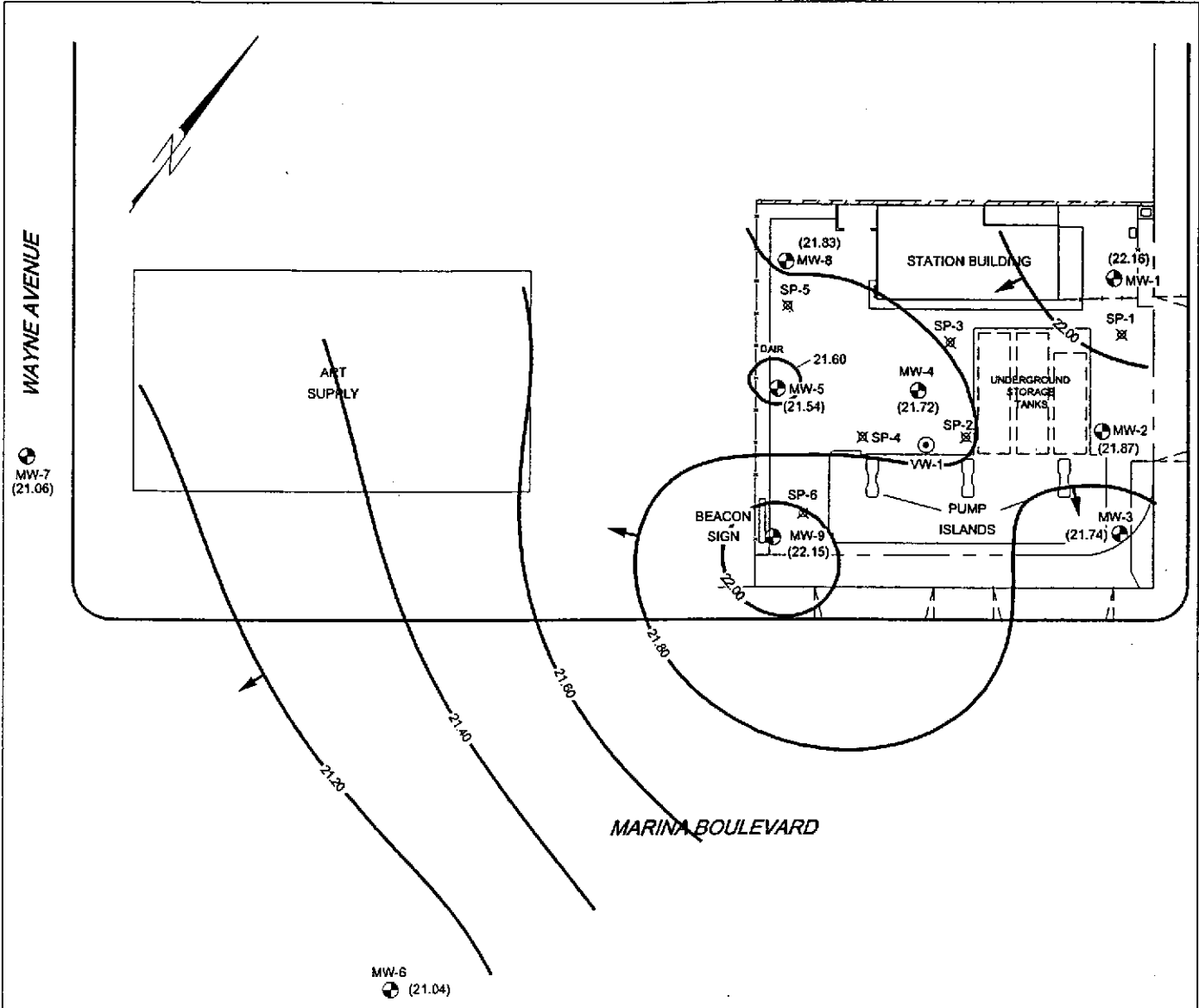
1. BASE MAP ADAPTED FROM FUGRO FIGURE DATED 10/24/95. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.
2. MONITORING WELLS MW-6 AND MW-7 ARE OFF-SITE.

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





LEGEND:

- PROPERTY LINE
- - - - - FENCE
- ⊕ MW-1 MONITORING WELL LOCATION
- ⊙ VW-1 VAPOR EXTRACTION WELL LOCATION
- ⊗ SP-1 AIR SPARGING WELL LOCATION
- (22.16) GROUND WATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL
- 21.60— WATER ELEVATION CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL
- ← GROUND WATER FLOW DIRECTION

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

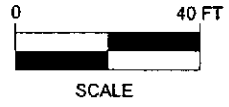
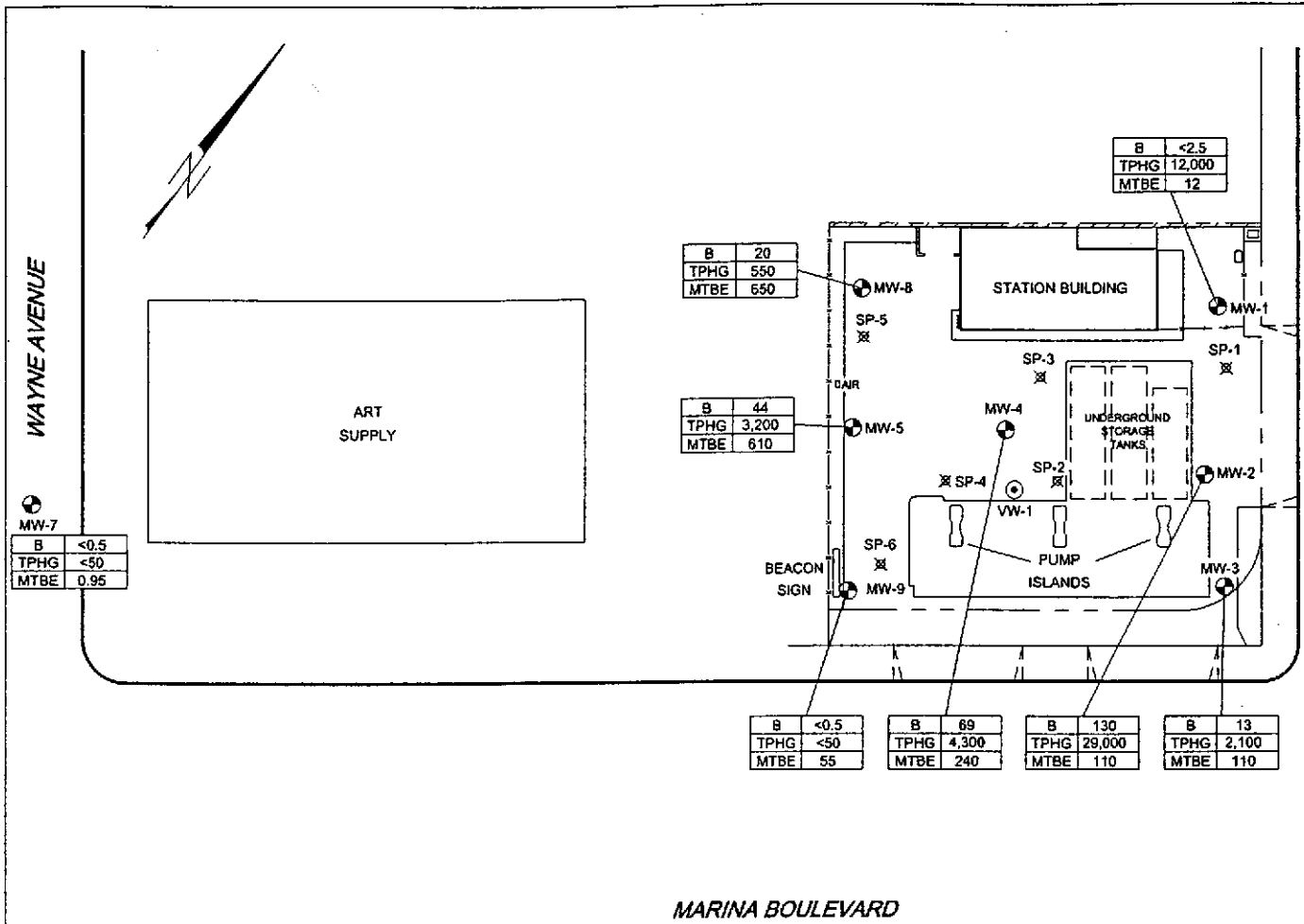


FIGURE 3
GROUND WATER ELEVATION CONTOUR MAP
 6/3/02

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

PROJECT NO. 00-3720	DRAWN BY M.L. 6/28/02
FILE NO. 00-3720-6	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY

RDM
Environmental



LEGEND:

- PROPERTY LINE
 - - - FENCE
 - ⊙ MW-1 MONITORING WELL LOCATION
 - ⊙ VW-1 VAPOR EXTRACTION WELL LOCATION
 - ⊗ SP-1 AIR SPARGING WELL LOCATION
- | | |
|------|------|
| B | <0.5 |
| TPHG | <50 |
| MTBE | <0.5 |
- BENZENE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
- TOTAL PETROLEUM HYDROCARBONS AS GASOLINE IN ug/L
- METHYL TERTIARY BUTYL ETHER IN ug/L



FIGURE 4
GROUNDWATER ANALYTICAL SUMMARY
6/3/02

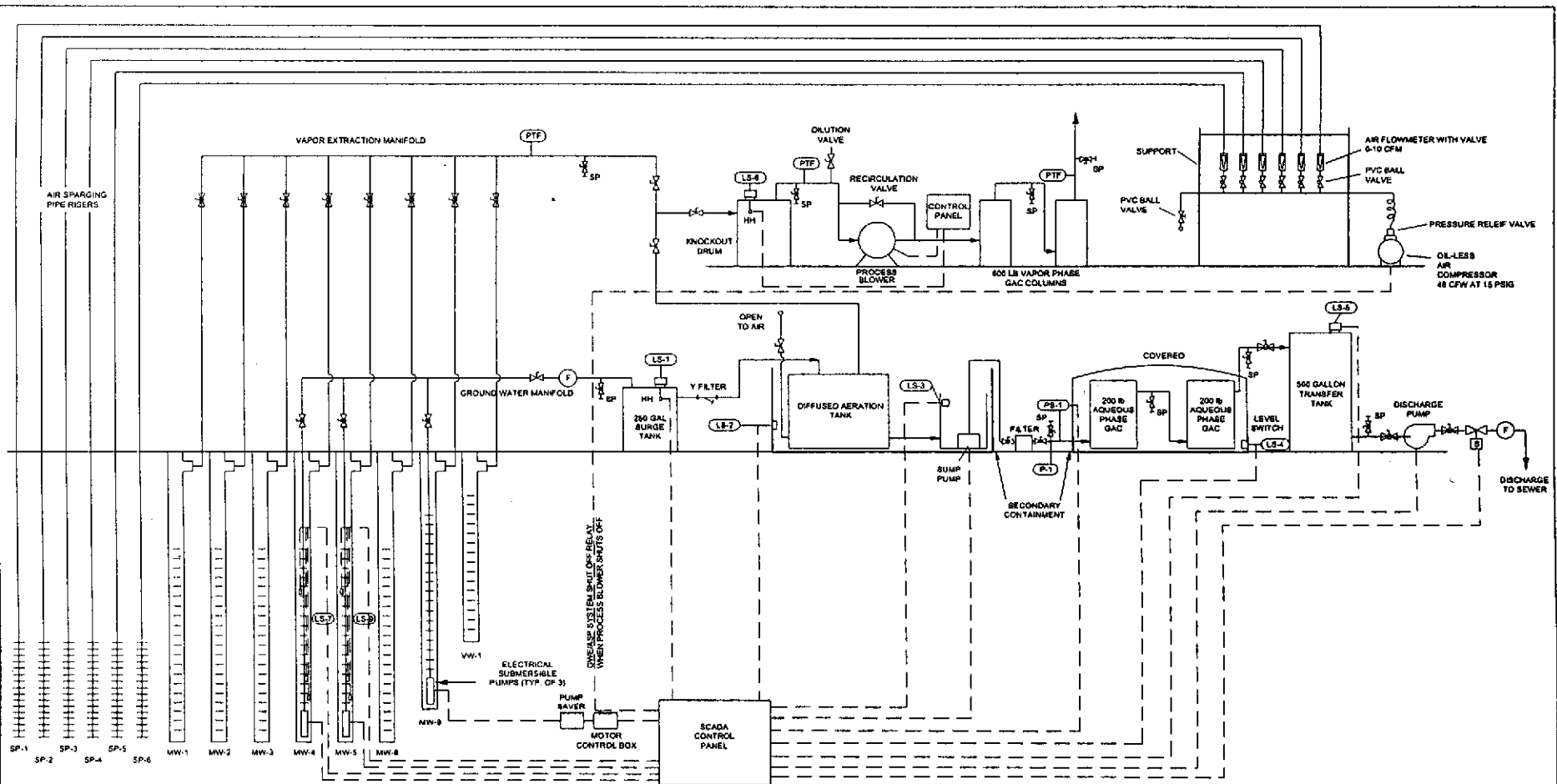
TESORO STATION NO. 67106
(FORMER BEACON STATION NO. 3720)
1088 MARINA BOULEVARD
SAN LEANDRO, CA.

NOTES:

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

PROJECT NO. 00-3720	DRAWN BY M.L. 6/28/02
FILE NO. 00-3720-6	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY





- (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
- SOLENOID VALVE
- SAMPLE PORT
- PRESSURE, TEMPERATURE, FLOW MONITORING POINT
- FLOW TOTALIZER
- PRESSURE GAUGE
- AQUEOUS PHASE CARBON PRESSURE SWITCH-
PRESSURE SWITCH-SHUTS DATS/SUMP PUMP AND WELL PUMPS (W/REMOTE RESET)

FIGURE 5
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



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: Beacon # 3720 1088 Marina Blvd.
San Leandro, Ca.

Date: 6-3-02

Project No.: 3720-61

Recorded by: _____

Well No.	Time	Well Elev. TOC	Depth to Groundwater	Measured Total Depth	Groundwater Elevation	Depth to Product	Product Thickness	Comments
MW-1	7:53		13.31	17.74				U.V.
MW-2	7:50		13.24	22.71				
MW-3	7:46		13.10	28.40				
MW-4	7:59		13.61	27.45				
MW-5	8:07		13.55	28.80				
MW-6	7:43		11.70	14.86				
MW-7	7:40		12.58	25.45				
MW-8	8:03		14.25	28.05				
MW-9	8:10		12.48	24.60				

Notes:

Client: Ultramar
Site: Beacon #3720
1088 Marina Blvd.
San Leandro, Ca.

Sampling Date: 6-3-02
Project No.: _____
Well Designation: MW-1

Is setup of traffic control devices required? NO YES
Is there standing water in the well box? NO YES
Is top of casing cut level? NO YES
Is well cap sealed and locked? NO YES
Height of well casing riser (in inches): 1
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 Fair _____ Poor _____

time: _____ hours
Above TOC _____ Below TOC
If no, see remarks
If no, see remarks

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

Well Diameter: 2" 4" _____ 6" _____ 8" _____
Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
Time: 7:53 Time: 9:22 Calculated purge: 2.8
Depth of well: 17.74 Depth to water: 15.10 Actual purge: 2.8
Depth to water: 13.31

Start purge: 9:15 Sampling time: 9:23

Time	Temperature	E.C.	pH	Turbidity	Volume
9:16	70.4	998	7.56		1
9:17	70.5	991	7.50		2
9:18	71.0	981	7.40		3
9:19	71.3	960	7.37		4

Sample appearance: Cloudy 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: Ultramar
Site: Beacon #3720
1088 Marina Blvd.
San Leandro, Ca.

Sampling Date: 6-3-02
Project No.:
Well Designation: MW-2

Is setup of traffic control devices required? NO
Is there standing water in the well box? YES
Is top of casing cut level? NO
Is well cap sealed and locked? NO
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, 36" CNI, 12" Pomeco, Other:
General condition of wellhead assembly: Excellent, Good, Fair, Poor

Purging Equipment: 2" disposable bailer, Submersible pump, 2" PVC bailer, Dedicated bailer, 4" PVC bailer, Centrifugal pump
Sampled with: Disposable bailer, Teflon bailer, Disposable Tubing

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

Initial Measurement: Time: 7:50, Depth of well: 22.71, Depth to water: 13.24
Recharge Measurement: Time: 9:10, Depth to water: 14.30
Calculated purge: 6.1, Actual purge: 6.1

Start purge: 9:00, Sampling time: 9:11

Table with 6 columns: Time, Temperature, E.C., pH, Turbidity, Volume. Rows contain data for times 9:01 through 9:04.

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: Ultramar

Sampling Date: 6-3-02

Site: Beacon #3720

Project No.: _____

1088 Marina Blvd.

Well Designation: MW-3

San Leandro, Ca.

Is setup of traffic control devices required? NO YES

Is there standing water in the well box? NO YES

Is top of casing cut level? NO YES

Is well cap sealed and locked? NO YES

time: _____ hours

Above TOC _____ Below TOC _____

If no, see remarks

If no, see remarks

Height of well casing riser (in inches): 1

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 Fair _____ Poor _____

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

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

Initial Measurement Recharge Measurement
 Time: 7:46 Time: 8:52 Calculated purge: 9.8
 Depth of well: 28.40 Depth to water: 15.60 Actual purge: 9.8
 Depth to water: 13.10

Start purge: 8:45 Sampling time: 8:53

Time	Temperature	E.C.	pH	Turbidity	Volume
8:46	71.6	1081	7.56		1
8:47	71.8	1006	7.50		2
8:48	71.9	998	7.41		3
8:49	71.7	996	7.38		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: _____

Client: Ultramar

Sampling Date: 6-3-02

Site: Beacon #3720

Project No.: _____

1088 Marina Blvd.

Well Designation: mw-4

San Leandro, Ca.

Is setup of traffic control devices required? NO YES

Is there standing water in the well box? NO YES

Is top of casing cut level? NO YES

Is well cap sealed and locked? NO YES

time: _____ hours

Above TOC _____ Below TOC _____

If no, see remarks

If no, see remarks

Height of well casing riser (in inches): 8

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" M&D~~ 36" CNI _____ 12" Pomeco _____ Other: _____

General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump

_____ 2" PVC bailer _____ Dedicated bailer

_____ 4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer Teflon bailer _____ Disposable Tubing _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____

Purge Vol. Multiplier: 0.16 _____ 0.65 _____ 1.47 _____ 2.61 gal/ft.

Initial Measurement _____ Recharge Measurement _____

Time: 7:59 _____ Time: 9:40 _____ Calculated purge: 8.8

Depth of well: 27.45 _____ Depth to water: 18.86 _____ Actual purge: 8.8

Depth to water: 13.61

Start purge: 9:36

Sampling time: 9:41

Time	Temperature	E.C.	pH	Turbidity	Volume
9:37	69.7	1110	7.44		1
9:38	70.3	1104	7.38		2
9:39	71.0	1091	7.30		3
9:40	71.8	1086	7.26		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: _____

Client: Ultramar
 Site: Beacon #3720
1088 Marina Blvd.
San Leandro, Ca.

Sampling Date: 6-3-02
 Project No.: _____
 Well Designation: MW-5

Is setup of traffic control devices required? NO YES
 Is there standing water in the well box? NO YES
 Is top of casing cut level? NO YES
 Is well cap sealed and locked? NO YES
 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 Fair _____ Poor _____

time: _____ hours
 Above TOC _____ Below TOC
 If no, see remarks
 If no, see remarks

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

Well Diameter: 2" 4" _____ 6" _____ 8" _____
 Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 8:07 Time: 10:50 Calculated purge: 9.7
 Depth of well: 28.80 Depth to water: 19.40 Actual purge: 9.7
 Depth to water: 13.55

Start purge: 10:40 Sampling time: 10:51

Time	Temperature	E.C.	pH	Turbidity	Volume
10:41	71.0	910	7.50		1
10:42	71.1	9.01	7.45		2
10:43	71.4	890	7.40		3
10:44	71.8	896	7.36		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: _____

Client: Ultramar

Sampling Date: 6-3-02

Site: Beacon #3720

Project No.: _____

1088 Marina Blvd.

Well Designation: MW-6

San Leandro, Ca.

Is setup of traffic control devices required? YES

Is there standing water in the well box? YES

Is top of casing cut level? NO YES

Is well cap sealed and locked? NO YES

time: _____ hours

Above TOC _____ Below TOC _____

If no, see remarks

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

Fair _____

Poor _____

Purging Equipment: _____ 2" disposable bailer

_____ Submersible pump

_____ 2" PVC bailer

_____ Dedicated bailer

_____ 4" PVC bailer

Centrifugal pump

Sampled with: Disposable bailer

Teflon bailer _____

Disposable Tubing _____

Well Diameter: 2"

4" _____

6" _____

8" _____

Purge Vol. Multiplier:

0.16

0.65

1.47

2.61 gal/ft.

Initial Measurement

Recharge Measurement

Time: 7:43

Time: 8:39

Calculated purge: 2.0

Depth of well: 14.86

Depth to water: 12.80

Actual purge: 2.0

Depth to water: 11.70

Start purge: 8:26

Sampling time: 8:40

Time	Temperature	E.C.	pH	Turbidity	Volume
8:27	71.6	1051	7.34		1
8:27	71.8	1040	7.31		2
8:28	72.3	991	7.20		3
8:29	72.4	986	7.18		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: _____

Client: Ultramar
 Site: Beacon #3720
1088 Marina Blvd.
San Leandro, Ca.

Sampling Date: 6-3-02
 Project No.: _____
 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 Fair _____ Poor _____

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

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

Initial Measurement Recharge Measurement
 Time: 7:40 Time: 8:21 Calculated purge: 8.2
 Depth of well: 25.45 Depth to water: 13.88 Actual purge: 8.2
 Depth to water: 12.58

Start purge: 8:15 Sampling time: 8:22

Time	Temperature	E.C.	pH	Turbidity	Volume
8:16	70.4	1104	7.38		1
8:17	70.8	1099	7.34		2
8:18	71.3	1091	7.31		3
8:19	71.6	1060	7.29		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: _____

Client: Ultramar
 Site: Beacon #3720
1088 Marina Blvd.
San Leandro, Ca.

Sampling Date: 6-3-02
 Project No.: _____
 Well Designation: MW-8

Is setup of traffic control devices required? NO YES
 Is there standing water in the well box? NO YES
 Is top of casing cut level? NO YES
 Is well cap sealed and locked? NO YES
 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 Fair _____ Poor _____

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

Well Diameter: 2" 4" _____ 6" _____ 8" _____
 Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 8:03 Time: 10:00 Calculated purge: 8-8
 Depth of well: 28.05 Depth to water: 15.80 Actual purge: 8-8
 Depth to water: 14.25

Start purge: 9:50 Sampling time: 10:01

Time	Temperature	E.C.	pH	Turbidity	Volume
9:51	71.0	1141	7.60		1
9:52	71.3	1160	7.50		2
9:53	71.6	1102	7.42		3
9:54	71.8	1100	7.40		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: Ultramar
 Site: Beacon #3720
1088 Marina Blvd.
San Leandro, Ca.

Sampling Date: 6-3-02
 Project No.: _____
 Well Designation: MW-9

Is setup of traffic control devices required? NO YES
 Is there standing water in the well box? NO YES
 Is top of casing cut level? NO YES
 Is well cap sealed and locked? NO YES
 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 Fair _____ Poor _____

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

Well Diameter: 2" _____ 4" 6" _____ 8" _____
 Purge Vol. Multiplier: 0.16 _____ 0.65 _____ 1.47 _____ 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 8:10 Time: 10:36 Calculated purge: 31.5
 Depth of well: 24.60 Depth to water: 13.68 Actual purge: 31.5
 Depth to water: 12.48

Start purge: 10:15 Sampling time: 10:37

Time	Temperature	E.C.	pH	Turbidity	Volume
10:18	71.4	1210	7.42		1
10:20	71.6	1191	7.38		2
10:22	72.0	1160	7.30		3
10:24	72.1	1151	7.28		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: _____



Report Number : 26800

Date : 6/17/02

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 9 Water Samples
Project Name : SAN LEANDRO
Project Number : 3720
P.O. Number : 3720-61

Dear Mr. Munsch,

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

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

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large, looped initial "J".

Joel Kiff



Report Number : 26800

Date : 6/17/02

Project Name : SAN LEANDRO

Project Number : 3720

Sample : MW-1

Matrix : Water

Lab Number : 26800-01

Sample Date :6/3/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 2.5	2.5	ug/L	EPA 8260B	6/14/02
Toluene	< 2.5	2.5	ug/L	EPA 8260B	6/14/02
Ethylbenzene	520	2.5	ug/L	EPA 8260B	6/14/02
Total Xylenes	460	2.5	ug/L	EPA 8260B	6/14/02
Methyl-t-butyl ether (MTBE)	12	2.5	ug/L	EPA 8260B	6/14/02
TPH as Gasoline	12000	250	ug/L	EPA 8260B	6/14/02
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	6/14/02
4-Bromofluorobenzene (Surr)	97.3		% Recovery	EPA 8260B	6/14/02

Sample : MW-2

Matrix : Water

Lab Number : 26800-02

Sample Date :6/3/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	130	10	ug/L	EPA 8260B	6/15/02
Toluene	260	10	ug/L	EPA 8260B	6/15/02
Ethylbenzene	1700	10	ug/L	EPA 8260B	6/15/02
Total Xylenes	5100	10	ug/L	EPA 8260B	6/15/02
Methyl-t-butyl ether (MTBE)	110	10	ug/L	EPA 8260B	6/15/02
TPH as Gasoline	29000	1000	ug/L	EPA 8260B	6/15/02
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	6/15/02
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	6/15/02

Approved By:  Joel Kiff



Report Number : 26800

Date : 6/17/02

Project Name : SAN LEANDRO

Project Number : 3720

Sample : MW-3

Matrix : Water

Lab Number : 26800-03

Sample Date :6/3/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	13	0.50	ug/L	EPA 8260B	6/14/02
Toluene	0.77	0.50	ug/L	EPA 8260B	6/14/02
Ethylbenzene	19	0.50	ug/L	EPA 8260B	6/14/02
Total Xylenes	0.94	0.50	ug/L	EPA 8260B	6/14/02
Methyl-t-butyl ether (MTBE)	110	0.50	ug/L	EPA 8260B	6/14/02
TPH as Gasoline	2100	50	ug/L	EPA 8260B	6/14/02
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	6/14/02
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	6/14/02

Sample : MW-4

Matrix : Water

Lab Number : 26800-04

Sample Date :6/3/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	69	2.0	ug/L	EPA 8260B	6/14/02
Toluene	390	2.0	ug/L	EPA 8260B	6/14/02
Ethylbenzene	190	2.0	ug/L	EPA 8260B	6/14/02
Total Xylenes	1100	2.0	ug/L	EPA 8260B	6/14/02
Methyl-t-butyl ether (MTBE)	240	2.0	ug/L	EPA 8260B	6/14/02
TPH as Gasoline	4300	200	ug/L	EPA 8260B	6/14/02
Toluene - d8 (Surr)	98.0		% Recovery	EPA 8260B	6/14/02
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	6/14/02

Approved By:  Joel Kiff



Report Number : 26800

Date : 6/17/02

Project Name : SAN LEANDRO

Project Number : 3720

Sample : MW-5

Matrix : Water

Lab Number : 26800-05

Sample Date :6/3/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	44	2.0	ug/L	EPA 8260B	6/14/02
Toluene	< 2.0	2.0	ug/L	EPA 8260B	6/14/02
Ethylbenzene	150	2.0	ug/L	EPA 8260B	6/14/02
Total Xylenes	210	2.0	ug/L	EPA 8260B	6/14/02
Methyl-t-butyl ether (MTBE)	610	2.0	ug/L	EPA 8260B	6/14/02
TPH as Gasoline	3200	200	ug/L	EPA 8260B	6/14/02
Toluene - d8 (Surr)	97.8		% Recovery	EPA 8260B	6/14/02
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	6/14/02

Sample : MW-6

Matrix : Water

Lab Number : 26800-06

Sample Date :6/3/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/13/02
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/13/02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/13/02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/13/02
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/13/02
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/13/02
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	6/13/02
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	6/13/02

Approved By:  Joel Kiff



Report Number : 26800

Date : 6/17/02

Project Name : SAN LEANDRO

Project Number : 3720

Sample : MW-7

Matrix : Water

Lab Number : 26800-07

Sample Date :6/3/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/14/02
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/14/02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/14/02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/14/02
Methyl-t-butyl ether (MTBE)	0.95	0.50	ug/L	EPA 8260B	6/14/02
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/14/02
Toluene - d8 (Surr)	96.1		% Recovery	EPA 8260B	6/14/02
4-Bromofluorobenzene (Surr)	98.2		% Recovery	EPA 8260B	6/14/02

Sample : MW-8

Matrix : Water

Lab Number : 26800-08

Sample Date :6/3/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	20	2.0	ug/L	EPA 8260B	6/14/02
Toluene	< 2.0	2.0	ug/L	EPA 8260B	6/14/02
Ethylbenzene	19	2.0	ug/L	EPA 8260B	6/14/02
Total Xylenes	35	2.0	ug/L	EPA 8260B	6/14/02
Methyl-t-butyl ether (MTBE)	650	2.0	ug/L	EPA 8260B	6/14/02
TPH as Gasoline	550	200	ug/L	EPA 8260B	6/14/02
Toluene - d8 (Surr)	97.9		% Recovery	EPA 8260B	6/14/02
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	6/14/02

Approved By:  Joel Kiff



Report Number : 26800

Date : 6/17/02

Project Name : SAN LEANDRO

Project Number : 3720

Sample : MW-9

Matrix : Water

Lab Number : 26800-09

Sample Date :6/3/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/14/02
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/14/02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/14/02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/14/02
Methyl-t-butyl ether (MTBE)	55	0.50	ug/L	EPA 8260B	6/14/02
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/14/02
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	6/14/02
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	6/14/02

Approved By:  Joel Kiff

Report Number : 26800

Date : 6/17/02

QC Report : Method Blank Data

Project Name : SAN LEANDRO

Project Number : 3720

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	6/15/02
Toluene	< 0.50	0.50	ug/L	EPA 8260B	6/15/02
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	6/15/02
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	6/15/02
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	6/15/02
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	6/15/02
Toluene - d8 (Surr)	100		%	EPA 8260B	6/15/02
4-Bromofluorobenzene (Surr)	97.4		%	EPA 8260B	6/15/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
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Approved By: Joel Kiff
Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 26800

Date : 6/17/02

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **SAN LEANDRO**

Project Number : **3720**

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 Recov. Limit	Relative Percent Diff. Limit
Benzene	26807-01	<0.50	37.5	38.3	37.4	38.5	ug/L	EPA 8260B	6/15/02	99.6	100	0.999	70-130	25
Toluene	26807-01	<0.50	37.5	38.3	37.5	38.4	ug/L	EPA 8260B	6/15/02	100	100	0.299	70-130	25
Tert-Butanol	26807-01	<5.0	188	192	191	198	ug/L	EPA 8260B	6/15/02	102	103	1.78	70-130	25
Methyl-t-Butyl Ether	26807-01	<0.50	37.5	38.3	38.7	40.3	ug/L	EPA 8260B	6/15/02	103	105	1.80	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 26800

Date : 6/17/02

QC Report : Laboratory Control Sample (LCS)

Project Name : **SAN LEANDRO**

Project Number : **3720**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	6/15/02	101	70-130
Toluene	40.0	ug/L	EPA 8260B	6/15/02	100	70-130
Tert-Butanol	200	ug/L	EPA 8260B	6/15/02	100	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	6/15/02	106	70-130

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  _____
Joel Kiff



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

Lab No. 26800 Page 1 of 1

Project Contact (Hardcopy or PDF To):
RICHARD MUNSCH
 Company/Address:

California EDF Report? Yes No

Chain-of-Custody Record and Analysis Request

Phone No.: 771-7098 FAX No.: 771-4584
 Project Number: 3720 P.O. No.: 3720-61

Recommended but not mandatory to complete this section:
 Sampling Company Log Code: D.E.I.O

Global ID: T.O.6.O.O.1.O.1.4.O.9
 EDF Deliverable To (Email Address):

Project Name: SAN LEANDRO

Sampler Signature: Edgar Olmstead

Project Address:

Sampling		Container		Preservative				Matrix	
Date	Time	40 ml VOA	SLEEVE	HCl	HNO ₃	ICE	NONE	WATER	SOIL

Sample Designation
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
MW-9

6-3-02	9:23	3		X	X			X	
	9:11								
	8:53								
	9:41								
	10:51								
	8:40								
	8:28								
	10:01								
	10:37								

Analysis Request													TAT	
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 EOB - 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	For Lab Use Only
				X										9:01
														-02
														-03
														-04
														-05
														-06
														-07
														-08
														-09

Relinquished by: [Signature]

Date: _____ Time: _____

Received by: _____

Remarks:

Relinquished by: _____

Date: _____ Time: _____

Received by: _____

Relinquished by: _____

Date: 060702 Time: 2013

Received by Laboratory: [Signature]

Bill to: ROB DONAVAN

ENCLOSURE D

Historical Ground Water Monitoring Data

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Ground Water ¹	Ground Water Elevation ²	Well Depth	Comments
MW-1	03/30/92	33.10	13.58	19.52	--	
	07/01/92		14.80	18.30	--	
	09/30/92		16.12	16.98	--	
	11/19/92		16.34	16.76	27.76	
	02/03/93		12.61	20.49	27.72	
	05/25/93		13.12	19.98	27.70	
	09/22/93		14.18	18.92	27.73	
	12/21/93		14.36	18.74	27.70	
	03/18/94		13.64	19.46	27.67	
	06/15/94		14.30	18.80	27.69	
	09/14/94		15.18	17.92	27.66	
	12/19/94		13.79	19.31	27.70	
	12/21/95		13.86	19.24	--	
	03/07/95		12.74	20.36	29.51	
	06/08/95		12.95	20.15	29.54	
	09/22/95		13.94	19.16	29.54	
	12/27/95		13.57	19.53	29.92	
	03/26/96		12.13	20.97	29.90	
	06/13/96		13.10	20.00	17.02	
	09/10/96		14.08	19.02	17.03	
	12/05/96		13.41	19.69	17.05	
03/10/97	12.70	20.40	17.04			
06/12/97	13.68	19.42	17.04			
08/19/97	14.31	18.79	17.01			
12/13/97	13.19	19.91	17.01			
MW-2	03/30/92	32.80	13.32	19.48	--	
	07/01/92		14.42	18.38	--	
	09/30/92		15.78	17.02	--	
	11/19/92		15.99	16.81	24.56	
	02/03/93		12.31	20.49	25.37	
	05/25/93		12.97	19.83	25.31	
	09/22/93		14.32	18.48	25.34	
	12/21/93		14.52	18.28	25.31	
	03/18/94		13.45	19.35	25.49	
	06/15/94		14.07	18.73	25.50	
	09/14/94		14.96	17.84	25.50	
	12/19/94		13.64	19.16	25.52	
	12/21/95		13.71	19.09	--	
	03/07/95		12.54	20.26	25.87	
	06/08/95		12.81	19.99	25.86	
	09/22/95		13.66	19.14	25.80	
	12/27/95		13.42	19.38	25.83	
	03/26/96		12.05	20.75	25.83	
	06/13/96		12.79	20.01	26.39	
	09/10/96		13.73	19.07	26.43	
	12/05/96		13.29	19.51	26.45	
03/10/97	12.42	20.38	26.48			
06/12/97	13.18	19.62	26.50			
08/19/97	13.94	18.86	26.52			
12/13/97	12.91	19.89	19.02			

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
2 = Elevation referenced to mean sea level.
Well Depth = Measurement from top of casing to bottom of well.
--- = Not measured.
* = Well paved over.

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Ground Water ¹	Ground Water Elevation ²	Well Depth	Comments
MW-3	03/30/92	32.30	12.96	19.34	---	
	07/01/92		14.00	18.30	---	
	09/30/92		15.36	16.94	---	
	11/19/92		15.57	16.73	24.45	
	02/03/93		11.96	20.34	24.54	
	05/25/93		14.12	18.18	24.50	
	09/22/93		13.88	18.42	24.50	
	12/21/93		14.12	18.18	24.50	
	03/18/94		13.04	19.26	24.57	
	06/15/94		13.65	18.65	24.78	
	09/14/94		14.54	17.76	24.59	
	12/19/94		13.28	19.02	24.71	
	12/21/95		13.30	19.00	---	
	03/07/95		12.26	20.04	26.03	
	06/08/95		12.42	19.88	26.02	
	09/22/95		13.25	19.05	26.00	
	12/27/95		13.04	19.26	26.00	
	03/26/96		11.62	20.68	26.01	
	06/13/96		12.61	19.69	28.45	
	09/10/96		13.49	18.81	28.42	
	12/05/96		13.07	19.23	28.42	
03/10/97	12.23	20.07	28.41			
06/12/97	12.94	19.36	28.44			
08/19/97	12.85	19.45	28.45			
12/13/97	12.45	19.85	28.43			
MW-4	03/30/92	32.90	13.60	19.30	---	
	07/01/92		15.72	17.18	---	
	09/30/92		16.04	16.86	---	
	11/19/92		16.21	16.69	26.92	
	02/03/93		12.70	20.20	27.00	
	05/25/93		12.97	19.93	26.88	
	09/22/93		14.51	18.39	26.90	
	12/21/93		14.75	18.15	26.90	
	03/18/94		13.68	19.22	27.24	
	06/15/94		14.37	18.53	28.54	
	09/14/94		15.23	17.67	27.25	
	12/19/94		13.93	18.97	28.61	
	12/21/95		13.99	18.91	---	
	03/07/95		12.86	20.04	28.64	
	06/08/95		13.10	19.80	28.68	
	09/22/95		13.98	18.92	28.71	
	12/27/95		13.74	19.16	28.71	
	03/26/96		12.30	20.60	28.70	
	06/13/96		13.18	19.72	27.86	
	09/10/96		14.22	18.68	27.40	
	12/05/96		13.65	19.25	27.40	
03/10/97	12.79	20.11	27.42			
06/12/97	13.51	19.39	27.40			
08/19/97	14.29	18.61	27.40			
12/13/97	13.43	19.47	27.43			

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
 2 = Elevation referenced to mean sea level.
Well Depth = Measurement from top of casing to bottom of well.
 --- = Not measured.
 * = Well paved over.

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Ground Water ¹	Ground Water Elevation ²	Well Depth	Comments
MW-5	03/30/92	32.70	13.48	19.22	---	
	07/01/92		14.58	18.12	---	
	09/30/92		15.82	16.88	---	
	11/19/92		16.00	16.70	27.56	
	02/03/93		12.40	20.30	27.61	
	05/25/93		13.01	19.69	27.61	
	09/22/93		14.37	18.33	27.64	
	12/21/93		14.58	18.12	27.01	
	03/18/94		13.53	19.17	28.70	
	06/15/94		14.18	18.52	28.74	
	09/14/94		15.07	17.63	28.70	
	12/19/94		13.74	18.96	28.76	
	12/21/95		13.84	18.86	---	
	03/07/95		12.73	19.97	28.88	
	06/08/95		12.99	19.71	28.87	
	09/22/95		13.83	18.87	28.85	
	12/27/95		13.59	19.11	28.85	
	03/26/96		12.20	20.50	28.84	
	06/13/96		12.98	19.72	28.84	
	09/10/96		13.96	18.74	28.87	
	12/05/96		13.36	19.34	28.87	
03/10/97	12.74	19.96	28.86			
06/12/97	13.06	19.64	28.83			
08/19/97	14.21	18.49	28.82			
12/13/97	13.51	19.19	28.85			
MW-6	03/30/92	30.40	12.62	17.78	---	
	07/01/92		12.70	17.70	---	
	09/30/92		13.40	17.00	---	
	11/19/92		13.59	16.81	15.10	
	02/03/93		12.43	17.57	15.01	
	05/25/93		---	---	---	
	10/11/93		12.82	17.58	15.10	
	12/21/93		13.06	17.34	15.10	
	03/18/94		12.16	18.24	15.16	
	06/15/94		12.59	17.81	15.17	
	09/14/94		12.86	17.54	14.97	
	12/19/94		12.48	17.92	15.19	
	12/21/95		11.61	18.79	---	
	03/07/95		12.37	18.03	14.98	
	06/08/95		11.14	19.26	15.00	
	09/22/95		12.44	17.96	15.00	
	12/27/95		12.21	18.19	14.98	
	03/26/96		12.26	18.14	14.97	
	06/13/96		12.55	17.85	14.98	
	09/10/96		12.31	18.09	15.01	
	12/05/96		12.22	18.18	15.00	
03/10/97	12.19	18.21	15.01			
06/12/97	12.28	18.12	14.97			
08/19/97	12.30	18.10	14.98			
12/13/97	11.93	18.47	14.93			

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
2 = Elevation referenced to mean sea level.
Well Depth = Measurement from top of casing to bottom of well.
--- = Not measured.
* = Well paved over.

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Ground Water ¹	Ground Water Elevation ²	Well Depth	Comments
MW-7	03/30/92	31.20	12.34	18.86	---	*
	07/01/92		15.54	15.66	---	
	09/30/92		14.64	16.56	---	
	11/19/92		14.80	16.40	25.10	
	02/03/93		11.36	19.84	25.02	
	05/25/93		---	---	---	
	09/22/93		13.18	18.02	25.01	
	12/21/93		13.42	17.78	25.02	
	03/18/94		12.36	18.84	25.13	
	06/15/94		13.01	18.19	25.21	
	09/14/94		13.88	17.32	25.13	
	12/19/94		12.61	18.59	25.23	
	12/21/95		12.38	18.82	---	
	03/07/95		11.56	19.64	25.22	
	06/08/95		11.82	19.38	25.20	
	09/22/95		12.67	18.53	25.23	
	12/27/95		12.34	18.86	25.23	
	03/26/96		11.03	20.17	25.21	
	06/13/96		11.76	19.44	25.20	
	09/10/96		12.71	18.49	24.56	
	12/05/96		12.32	18.88	24.56	
03/10/97	11.38	19.82	24.53			
06/12/97	12.28	18.92	24.52			
08/19/97	12.92	18.28	24.52			
12/13/97	11.69	19.51	24.50			
MW-8	03/30/92	33.80	14.66	19.14	---	
	07/01/92		15.74	18.06	---	
	09/30/92		17.00	16.80	---	
	11/19/92		17.01	16.79	29.75	
	02/03/93		13.83	19.97	29.88	
	05/25/93		13.01	20.79	29.86	
	09/22/93		15.81	17.99	24.52	
	12/21/93		16.05	17.75	29.86	
	03/18/94		14.62	19.18	29.87	
	06/15/94		15.29	18.51	30.07	
	09/14/94		16.22	17.58	29.87	
	12/19/94		14.81	18.99	30.05	
	12/21/95		14.89	18.91	---	
	03/07/95		13.75	20.05	29.94	
	06/08/95		13.98	19.82	29.93	
	09/22/95		14.92	18.88	29.95	
	12/27/95		14.61	19.19	29.92	
	03/26/96		13.09	20.71	29.73	
	06/13/96		13.81	19.99	27.92	
	09/10/96		14.80	19.00	27.95	
	12/05/96		14.05	19.75	27.96	
03/10/97	13.40	20.40	27.98			
06/12/97	14.31	19.49	27.95			
08/19/97	13.85	19.95	27.94			
12/13/97	13.92	19.88	27.93			

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
 2 = Elevation referenced to mean sea level.
Well Depth = Measurement from top of casing to bottom of well.
 --- = Not measured.
 * = Well paved over.

TABLE 1
GROUND WATER ELEVATION DATA
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Ground Water ¹	Ground Water Elevation ²	Well Depth	Comments
MW-9	12/21/95	32.56	13.76	18.80	—	
	03/07/95		12.79	19.77	24.71	
	06/08/95		12.96	19.60	24.70	
	09/22/95		13.73	18.83	24.72	
	12/27/95		13.53	19.03	24.71	
	03/26/96		12.27	20.29	24.70	
	06/13/96		12.84	19.72	24.53	
	09/10/96		13.49	19.07	24.58	
	12/05/96		13.18	19.38	24.60	
	03/10/97		12.25	20.31	24.66	
	06/12/97		12.70	19.86	24.66	
	08/19/97		17.89	14.67	24.68	
	12/13/97		15.79	16.77	24.68	

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.
 2 = Elevation referenced to mean sea level.
 Well Depth = Measurement from top of casing to bottom of well.
 --- = Not measured.
 * = Well paved over.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics					
		Gasoline	MTBE ¹	Benzene	Toluene	Ethyl-benzene	Total Xylenes	
MW-1	03/30/92	27,000		630	550	540	1,900	
	07/01/92	55,000		840	1,000	830	3,600	
	09/30/92	6,400		150	95	120	470	
	11/19/92	1,300		90	11	50	87	
	02/03/93	53,000		750	560	950	5,700	
	05/25/93	9,400		200	86	470	1,500	
	09/22/93	41,000		1,000	510	850	1,100	
	12/21/93	41,000		1,000	490	2,700	13,000	
	03/18/94	9,500		320	160	830	2,900	
	06/15/94	8,000		310	80	990	2,300	
	09/14/94	3,600		130	31	390	630	
	12/19/94	17,000		350	150	1,500	5,200	
	03/07/95	12,000		180	62	1,200	3,200	
	06/08/95	6,300		76	8	560	860	
	09/22/95	12,000		140	55	1,500	2,500	
	12/27/95	3,900		60	13	480	870	
	03/26/96	6,400		42	4.9	560	600	
	06/13/96	9,600		<50	86	39	1,100	1,700
	09/10/96	16,000		<50	65	35	1,500	2,700
	12/05/96	6,400		<25	25	11	570	930
03/10/97	15,000		<50	42	<5.0	1,400	1,500	
06/12/97	16,000		<100	33	34	1,100	1,700	
08/19/97	17,000		<100	47	14	1,300	2,200	
12/13/97	5,800		<100	20	35	360	470	
MW-2	03/30/92	52,000		2,300	1,700	940	3,300	
	07/01/92	130,000		3,500	2,900	1,900	7,900	
	09/30/92	24,000		890	350	500	1,700	
	11/19/92	32,000		1,900	1,700	870	3,400	
	02/03/93	64,000		1,900	2,200	860	4,100	
	05/25/93	34,000		3,300	1,500	1,300	5,900	
	09/22/93	8,000		640	150	270	2,000	
	12/21/93	18,000		1,500	410	1,300	5,000	
	03/18/94	14,000		1,600	790	1,100	3,700	
	06/15/94	13,000		1,600	580	1,200	4,100	
	09/14/94	20,000		1,600	560	1,800	6,400	
	12/19/94	19,000		1,700	750	1,600	5,800	
	03/07/95	17,000		1,900	980	1,300	5,100	
	06/08/95	19,000		2,100	740	1,500	4,900	
	09/22/95	12,000		840	170	1,100	3,400	
	12/27/95	16,000		1,100	540	1,400	5,100	
	03/26/96	11,000		930	520	970	3,000	
	06/13/96	11,000		1,200	1,800	1,400	4,500	
	09/10/96	19,000		1,100	1,600	600	5,000	
	12/05/96	12,000		180	650	180	2,800	
03/10/97	6,800		69	430	95	590	1,800	
06/12/97	20,000		100	610	140	1,500	4,300	
08/19/97	3,600		<100	250	10	250	250	
12/13/97	8,300		75	370	150	450	1,600	

NOTES: < = Below indicated detection limit
ND = Reported as "nondetect" by previous consultant.
NS = Not sampled.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics					
		Gasoline	MTBE ¹	Benzene	Toluene	Ethyl-benzene	Total Xylenes	
MW-3	03/30/92	21,000		560	50	630	980	
	07/01/92	13,000		150	20	22	300	
	09/30/92	4,500		53	2.6	84	96	
	11/19/92	4,700		73	6.2	140	120	
	02/03/93	23,000		220	40	430	740	
	05/25/93	9,900		120	26	370	520	
	09/22/93	10,000		370	71	320	640	
	12/21/93	7,800		130	8.5	430	380	
	03/18/94	3,100		22	1.3	78	41	
	06/15/94	1,700		8.6	1.4	22	15	
	09/14/94	1,400		3.8	<1.3	13	18	
	12/19/94	3,800		70	1.7	140	110	
	03/07/95	2,200		9.4	<1.3	30	21	
	06/08/95	1,700		5.8	<1.3	2.3	14	
	09/22/95	1,200		<1.3	<1.3	1.3	<1.3	
	12/27/95	1,300		2.4	<1.3	3.3	3.6	
	03/26/96	1,200		4.3	<1.3	4.2	2	
	06/13/96	1,300		28	5.1	<0.50	21	6.5
	09/10/96	810		<5.0	1.4	4.8	1.6	2.1
	12/05/96	590		<5.0	<0.50	3.2	0.79	0.52
03/10/97	650		<5.0	0.73	3.8	2.4	1.6	
06/12/97	710		<5.0	<0.50	3.5	2.9	3.6	
08/19/97	1,400		13	2.2	0.58	11	34	
12/13/97	810		<5.0	0.96	<0.50	0.54	1.8	
MW-4	03/30/92	76,000		8,000	4,400	730	2,500	
	07/01/92	95,000		6,900	2,200	70	880	
	09/30/92	58,000		7,100	1,500	650	2,700	
	11/19/92	33,000		5,500	840	400	1,400	
	02/03/93	130,000		8,200	6,700	940	4,400	
	05/25/93	63,000		16,000	6,600	1,700	8,100	
	09/22/93	23,000		6,900	940	150	3,000	
	12/21/93	28,000		6,900	1,900	1,100	5,500	
	03/18/94	58,000		17,000	6,300	2,500	10,000	
	06/15/94	59,000		20,000	4,900	2,500	9,100	
	09/14/94	73,000		22,000	6,800	2,700	10,000	
	12/19/94	67,000		20,000	8,300	2,300	9,100	
	03/07/95	57,000		19,000	7,900	2,200	8,700	
	06/08/95	61,000		17,000	6,300	2,700	9,000	
	09/22/95	37,000		12,000	2,200	1,400	3,500	
	12/27/95	39,000		12,000	6,000	1,800	5,800	
	03/26/96	31,000		9,600	3,700	2,300	6,200	
	06/13/96	240		89	64	0.93	1.8	2.7
	09/10/96	91,000		2,900	13,000	20,000	3,200	16,000
	12/05/96	16,000		1,200	3,700	3,100	580	2,800
03/10/97	630		530	91	<0.50	<0.50	0.8	
06/12/97	36,000		1,100	4,600	5,300	1,200	5,500	
08/19/97	12,000		390	420	88	61	520	
12/13/97	4,800		360	560	740	130	1,100	

NOTES: < = Below indicated detection limit
 ND = Reported as "nondetect" by previous consultant.
 NS = Not sampled.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics				
		Gasoline	MTBE ¹	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-5	03/30/92	29,000		2,600	980	390	1,100
	07/01/92	52,000		2,400	1,000	5,200	2,000
	09/30/92	32,000		1,800	780	370	1,700
	11/19/92	7,800		1,000	280	120	370
	02/03/93	74,000		3,500	3,000	780	3,200
	05/25/93	57,000		7,900	4,700	1,900	7,800
	09/22/93	52,000		7,600	2,400	1,200	8,800
	12/21/93	23,000		3,600	1,200	970	3,600
	03/18/94	47,000		8,200	5,000	1,400	6,100
	06/15/94	28,000		7,900	4,000	1,200	5,200
	09/14/94	32,000		8,000	5,100	1,400	5,600
	12/19/94	29,000		7,000	3,400	1,200	5,200
	03/07/95	36,000		9,800	5,800	1,800	7,800
	06/08/95	33,000		7,700	3,800	1,500	6,200
	09/22/95	39,000		9,500	3,800	1,900	7,000
	12/27/95	42,000		9,700	5,000	2,200	8,800
	03/26/96	37,000		9,800	4,900	2,300	8,800
	06/13/96	18,000	1,400	5,500	2,200	1,500	5,300
	09/10/96	22,000	860	5,600	1,400	1,100	3,500
	12/05/96	24,000	650	5,100	2,500	1,400	4,700
03/10/97	28,000	760	6,800	2,700	1,300	5,700	
06/12/97	49,000	700	7,500	3,200	2,300	9,200	
08/19/97	24,000	1,600	4,700	990	1,400	4,500	
12/13/97	18,000	360	2,700	760	630	4,200	
MW-6	03/30/92	73		2.1	1.1	ND	0.6
	07/01/92	ND		ND	ND	ND	ND
	09/30/92	ND		0.73	ND	ND	0.58
	11/19/92	96		1.5	<0.5	<0.5	0.9
	02/03/93	73		0.6	<0.5	<0.5	<0.5
	05/25/93	NS		NS	NS	NS	NS
	10/11/93	<50		<0.5	<0.5	<0.5	<0.5
	12/21/93	<50		<0.5	<0.5	<0.5	<0.5
	03/18/94	<50		<0.5	<0.5	<0.5	<0.5
	06/15/94	<50		<0.5	<0.5	<0.5	<0.5
	09/14/94	<50		<0.5	<0.5	<0.5	<0.5
	12/19/94	<50		<0.5	<0.5	<0.5	<0.5
	03/07/95	<50		<0.5	<0.5	<0.5	<0.5
	06/08/95	<50		<0.5	<0.5	<0.5	<0.5
	09/22/95	<50		<0.50	<0.50	<0.50	<0.50
	12/27/95	<50		<0.50	<0.50	<0.50	<0.50
	03/26/96	<50		<0.50	<0.50	<0.50	<0.50
	06/13/96	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	09/10/96	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	12/05/96	<50	<5.0	<0.50	<0.50	<0.50	<0.50
03/10/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50	
06/12/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50	
08/19/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50	
12/13/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50	

NOTES: < = Below indicated detection limit
 ND = Reported as "nondetect" by previous consultant.
 NS = Not sampled.

TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics				
		Gasoline	MTBE ¹	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-7	03/30/92	ND		ND	ND	ND	ND
	07/01/92	ND		ND	ND	ND	ND
	09/30/92	ND		ND	ND	ND	ND
	11/19/92	<50		<0.5	<0.5	<0.5	<0.5
	02/03/93	<50		<0.5	<0.5	<0.5	<0.5
	05/25/93	NS		NS	NS	NS	NS
	09/22/93	<50		0.51	0.82	<0.5	0.81
	12/21/93	<50		<0.5	<0.5	<0.5	<0.5
	03/18/94	<50		<0.5	<0.5	<0.5	<0.5
	06/15/94	<50		<0.5	<0.5	<0.5	<0.5
	09/14/94	<50		<0.5	<0.5	<0.5	<0.5
	12/19/94	<50		<0.5	<0.5	<0.5	<0.5
	03/07/95	<50		<0.5	<0.5	<0.5	<0.5
	06/08/95	<50		<0.5	<0.5	<0.5	<0.5
	09/22/95	<50		<0.50	<0.50	<0.50	<0.50
	12/27/95	<50		<0.50	<0.50	<0.50	<0.50
	03/26/96	<50		<0.50	<0.50	<0.50	<0.50
	06/13/96	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	09/10/96	<50	<5.0	<0.50	<0.50	<0.50	<0.50
	12/05/96	<50	<5.0	<0.50	<0.50	<0.50	<0.50
03/07/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50	
06/12/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50	
08/19/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50	
12/13/97	<50	<5.0	<0.50	<0.50	<0.50	<0.50	
MW-8	03/30/92	3,000		1,700	880	970	1,900
	07/01/92	72,000		1,800	550	520	2,200
	09/30/92	12,000		680	140	140	560
	11/19/92	9,600		530	310	130	560
	02/03/93	44,000		1,500	1,300	490	2,300
	05/25/93	7,400		580	160	170	480
	09/22/93	2,400		490	45	37	140
	12/21/93	1,400		240	7.5	<2.5	82
	03/18/94	8,600		1,600	680	470	1,900
	06/15/94	4,800		980	380	260	1,200
	09/14/94	6,600		1,200	280	330	1,100
	12/19/94	8,400		1,800	390	500	2,000
	03/07/95	7,400		1,400	370	440	2,000
	06/08/95	6,000		790	220	290	1,400
	09/22/95	4,100		750	93	230	860
	12/27/95	5,400		860	140	350	1,400
	03/26/96	1,700		180	27	100	370
	06/13/96	2,400	42	500	67	220	850
	09/10/96	7,000	<50	1,300	100	410	1,600
	12/05/96	6,300	<50	1,100	78	410	1,600
03/07/97	6,500	<130	840	67	330	1,500	
06/12/97	7,500	<50	1,000	79	390	1,400	
08/19/97	1,100	<20	170	14	38	220	
12/13/97	4,100	24	300	29	190	860	

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TABLE 2
GROUND WATER ANALYTICAL RESULTS
BEACON STATION #720
1088 MARINA BOULEVARD, SAN LEANDRO, CALIFORNIA
(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons	Aromatic Volatile Organics				
		Gasoline	MTBE ¹	Benzene	Toluene	Ethyl-benzene	Total Xylenes
MW-9	12/20/94	16,000		2,500	1,400	690	2,800
	03/07/95	5,200		1,600	250	320	520
	06/08/95	4,900		1,000	98	300	200
	09/22/95	4,000		1,100	82	190	200
	12/27/95	2,800		960	100	200	250
	03/26/96	1,600		380	44	96	110
	06/13/96	1,800	750	540	71	140	180
	09/10/96	2,400	810	860	70	190	210
	12/05/96	5,500	960	2,100	420	380	720
	03/07/97	4,200	720	1,300	170	260	440
	06/12/97	11,000	1,000	2,500	490	560	1,300
	08/19/97	42,000	<1,000	7,700	3,500	2,000	8,300
	12/13/97	13,000	710	1,300	280	960	3,100

NOTES: < = Below indicated detection limit
 ND = Reported as "nondetect" by previous consultant.
 NS = Not sampled.

ENCLOSURE E

Remediation System Analytical Results



Report Number : 26001

Date : 4/25/02

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 3 Air Samples
Project Name : 3720
Project Number : 3720
P.O. Number : 3720-57

Dear Mr. Munsch,

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

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

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J".

Joel Kiff



Report Number : 26001

Date : 4/25/02

Project Name : 3720

Project Number : 3720

Sample : SVE-INF

Matrix : Air

Lab Number : 26001-01

Sample Date :4/18/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	Molar ppm	EPA 8260B	4/20/02
Toluene	0.076	0.050	Molar ppm	EPA 8260B	4/20/02
Ethylbenzene	< 0.050	0.050	Molar ppm	EPA 8260B	4/20/02
Total Xylenes	0.092	0.050	Molar ppm	EPA 8260B	4/20/02
Methyl-t-butyl ether	0.16	0.10	Molar ppm	EPA 8260B	4/20/02
TPH as Gasoline	< 5.0	5.0	Molar ppm	EPA 8260B	4/20/02
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	4/20/02
4-Bromofluorobenzene (Surr)	98.7		% Recovery	EPA 8260B	4/20/02

Sample : SVE-MID

Matrix : Air

Lab Number : 26001-02

Sample Date :4/18/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	Molar ppm	EPA 8260B	4/20/02
Toluene	< 0.050	0.050	Molar ppm	EPA 8260B	4/20/02
Ethylbenzene	< 0.050	0.050	Molar ppm	EPA 8260B	4/20/02
Total Xylenes	< 0.050	0.050	Molar ppm	EPA 8260B	4/20/02
Methyl-t-butyl ether	2.1	0.10	Molar ppm	EPA 8260B	4/20/02
TPH as Gasoline	< 5.0	5.0	Molar ppm	EPA 8260B	4/20/02
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	4/20/02
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	4/20/02

Approved By:  Joel Kiff



Report Number : 26001

Date : 4/25/02

Project Name : 3720

Project Number : 3720


Sample : SVE-EFF

Matrix : Air

Lab Number : 26001-03

Sample Date : 4/18/02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	Molar ppm	EPA 8260B	4/20/02
Toluene	< 0.050	0.050	Molar ppm	EPA 8260B	4/20/02
Ethylbenzene	< 0.050	0.050	Molar ppm	EPA 8260B	4/20/02
Total Xylenes	< 0.050	0.050	Molar ppm	EPA 8260B	4/20/02
Methyl-t-butyl ether	0.32	0.10	Molar ppm	EPA 8260B	4/20/02
TPH as Gasoline	< 5.0	5.0	Molar ppm	EPA 8260B	4/20/02
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	4/20/02
4-Bromofluorobenzene (Surr)	99.4		% Recovery	EPA 8260B	4/20/02

Approved By:  Joel Kiff



720 Olive Drive, Suite D
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4803

Lab No. 26001

Page 1 of 1

Project Contact (Hardcopy or PDF To):
Richard Munsch

EDF Report? Yes No

Chain-of-Custody Record and Analysis Request

Company/Address:
RDM Environmental

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

Phone No.: (916) 771-7098 FAX No.: (916) 771-4584

Global ID:

Project Number: 3720 P.O. No.: 3720-57

EDF Deliverable To (Email Address):

Project Address:
San Leandro

Sampler Signature:

Project Name:
3720

Sampling		Container				Preservative				Matrix		
Date	Time	40 ml VOA	SLEEVE	Teflon	HCl	HNO ₃	ICE	NONE	WATER	SOIL	Air	

Sample Designation

SVE - Inf
SVE - MID
SVE - Eff

<u>4/18/02</u>	<u>7:50</u>			<u>X</u>							<u>X</u>
<u>4/18/02</u>	<u>7:48</u>			<u>X</u>							<u>X</u>
<u>4/18/02</u>	<u>7:46</u>			<u>X</u>							<u>X</u>

Analysis Request											TAT			
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 Scar. (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	For Lab Use Only
	<u>X</u>												<u>1 wk</u>	
	<u>X</u>													<u>-01</u>
	<u>X</u>													<u>-02</u>
	<u>X</u>													<u>-03</u>

Relinquished by:

Date: _____ Time: _____ Received by: _____

Remarks: STAT

Relinquished by: _____

Date: _____ Time: _____ Received by: _____

Relinquished by: _____

Date: 04/19/02 Time: 1839 Received by Laboratory: Osama Alwan/KIFF Analytical

Bill to: Ultima Inc. Joe Aldridge



Report Number : 26397

Date : 5/16/2002

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 3 Air Samples
Project Name : 3720
Project Number : 3720
P.O. Number : 3720-60

Dear Mr. Munsch,

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

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

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J".

Joel Kiff



Report Number : 26397

Date : 5/16/2002

Project Name : 3720

Project Number : 3720

Sample : SVE-INF

Matrix : Air

Lab Number : 26397-01

Sample Date :5/13/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	Molar ppm	EPA 8260B	5/15/2002
Toluene	< 0.050	0.050	Molar ppm	EPA 8260B	5/16/2002
Ethylbenzene	< 0.050	0.050	Molar ppm	EPA 8260B	5/15/2002
Total Xylenes	< 0.050	0.050	Molar ppm	EPA 8260B	5/16/2002
TPH as Gasoline	< 5.0	5.0	Molar ppm	EPA 8260B	5/15/2002
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	5/15/2002
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	5/15/2002

Sample : SVE-MID

Matrix : Air

Lab Number : 26397-02

Sample Date :5/13/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	Molar ppm	EPA 8260B	5/15/2002
Toluene	< 0.050	0.050	Molar ppm	EPA 8260B	5/15/2002
Ethylbenzene	< 0.050	0.050	Molar ppm	EPA 8260B	5/15/2002
Total Xylenes	< 0.050	0.050	Molar ppm	EPA 8260B	5/15/2002
TPH as Gasoline	< 5.0	5.0	Molar ppm	EPA 8260B	5/15/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	5/15/2002
4-Bromofluorobenzene (Surr)	99.4		% Recovery	EPA 8260B	5/15/2002

Approved By:  Joel Kiff



Report Number : 26397

Date : 5/16/2002

Project Name : 3720

Project Number : 3720

Sample : SVE-EFF

Matrix : Air

Lab Number : 26397-03

Sample Date :5/13/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	Molar ppm	EPA 8260B	5/15/2002
Toluene	< 0.050	0.050	Molar ppm	EPA 8260B	5/15/2002
Ethylbenzene	< 0.050	0.050	Molar ppm	EPA 8260B	5/15/2002
Total Xylenes	< 0.050	0.050	Molar ppm	EPA 8260B	5/15/2002
TPH as Gasoline	< 5.0	5.0	Molar ppm	EPA 8260B	5/15/2002
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	5/15/2002
4-Bromofluorobenzene (Surr)	99.9		% Recovery	EPA 8260B	5/15/2002

Approved By:  Joel Kiff



720 Olive Drive, Suite D
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4803

Lab No. 26397 Page 1 of 1

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

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

Phone No.: (916) 771-2996 FAX No.: (916) 771-4584
 Global ID: _____

Project Number: 3720 P.O. No.: 3720-60
 EDF Deliverable To (Email Address): _____

Project Address: San Leandro
 Sampler Signature: [Signature]

Project Name: 3720

Sample Designation	Sampling		Container				Preservative				Matrix		BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421239.2) TOTAL (X) W.E.T. (X)	TAT			
	Date	Time	40 ml VOA	SLEEVE	Teal	HCl	HNO ₃	ICE	NONE	WATER	SOIL																		
SVE - Inf	5/13/02	8:00		X					X				X	X															-01
SVE - MID	5/13/02	7:58		X					X				X	X															-02
SVE - EFF	5/13/02	7:58		X					X				X	X															-03

Relinquished by: <u>[Signature]</u>	Date	Time	Received by: _____
Relinquished by: _____	Date	Time	Received by: _____
Relinquished by: _____	Date	Time	Received by Laboratory: <u>[Signature]</u>

Remarks: STAT

Bill to: Ultaman Inc. Joe Aldridge



Report Number : 26936

Date : 6/20/2002

Richard Munsch
RDM Environmental
1704 Via Riata
Roseville, CA 95747

Subject : 3 Air Samples
Project Name : Former Beacon 3720
Project Number : 3720
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



Report Number : 26936

Date : 6/20/2002

Project Name : **Former Beacon 3720**

Project Number : **3720**

Sample : **SVE-Inf**

Matrix : Air

Lab Number : 26936-01

Sample Date :6/13/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	ppmv	EPA 8260B	6/15/2002
Toluene	0.070	0.050	ppmv	EPA 8260B	6/15/2002
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	6/15/2002
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	6/15/2002
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	6/15/2002
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	6/15/2002
4-Bromofluorobenzene (Surr)	98.8		% Recovery	EPA 8260B	6/15/2002

Sample : **SVE-MID**

Matrix : Air

Lab Number : 26936-02

Sample Date :6/13/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	ppmv	EPA 8260B	6/15/2002
Toluene	< 0.050	0.050	ppmv	EPA 8260B	6/15/2002
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	6/15/2002
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	6/15/2002
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	6/15/2002
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	6/15/2002
4-Bromofluorobenzene (Surr)	98.3		% Recovery	EPA 8260B	6/15/2002

Approved By:  Joel Kiff



Report Number : 26936

Date : 6/20/2002

Project Name : Former Beacon 3720

Project Number : 3720

Sample : SVE-Eff

Matrix : Air

Lab Number : 26936-03

Sample Date :6/13/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.050	0.050	ppmv	EPA 8260B	6/15/2002
Toluene	< 0.050	0.050	ppmv	EPA 8260B	6/15/2002
Ethylbenzene	< 0.050	0.050	ppmv	EPA 8260B	6/15/2002
Total Xylenes	< 0.050	0.050	ppmv	EPA 8260B	6/15/2002
TPH as Gasoline	< 5.0	5.0	ppmv	EPA 8260B	6/15/2002
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	6/15/2002
4-Bromofluorobenzene (Surr)	99.9		% Recovery	EPA 8260B	6/15/2002

Approved By:  Joel Kiff



720 Olive Drive, Suite D
 Davis, CA 95616
 Lab: 530.297.4800
 Fax: 530.297.4803

Lab No. 26936 Page 1 of 1

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

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

Phone No.: (916) 771-7098 FAX No.: (916) 771-4584 Global ID:

Project Number: 3720 P.O. No.: 67106 EDF Deliverable To (Email Address):

Project Address: 1088 Marina Blvd. San Leandro Sampler Signature: [Signature]

Project Name: Former Beacon 3720

Sample Designation

Sampling **Container** **Preservative** **Matrix**

Sample Designation	Date	Time	40 ml VOA	SLEEVE	Tedlar	Preservative				Matrix			BTEX (8021B)	RTEX/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				
						HCl	HNO ₃	ICE	NONE	WATER	SOIL	Air																		
SVE-Inf	6/12/02	5:40							X				X																	
SVE-MID	6/13/02	5:38							X				X																	01
SVE-EFF	6/13/02	5:26							X				X																	02
																														03

Relinquished by: <u>[Signature]</u>	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory: <u>Harold Brown KIFF</u>

Remarks: STAT

Bill to: Tesoro Petroleum Co
Attn: Rob Donovan