8T20149

BD

Ultramar

ENVIRONMENTAL PROTECTION

98 JUL 16 PM 2:52

Ultramar, Inc.
P.O. Box 466
525 W. Third Street
Hanford, CA 93232-0466
(209) 582-0241

Telecopy: 209-583-5685 Credit
209-583-3330 Administrative
209-583-3302 Information Services
209-583-3358 Accounting

July 14, 1998

Ms. Amy Leach
Hazardous Materials Program
Department of Environmental Health
Alameda County Health Care Services
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

SUBJECT: BEACON STATION NO. 721, 44 LEWELLING BLVD., SAN LORENZO, CALIFORNIA

Dear Ms. Leach:

Enclosed is a copy of the ***Quarterly Ground Water Monitoring Report, Second Quarter 1998*** for the above-referenced Ultramar facility. Also included is a copy of the Quarterly Status Report.

Please call me at (209) 583-3345 if you have any questions regarding this project.

Sincerely,

ULTRAMAR INC.

Terrence A. Fox

Terrence A. Fox
Senior Project Manager
Marketing Environmental Department

Enclosures

cc w/encl: Mr. Steve Morse, San Francisco Bay Region, RWQCB

Ultramar

Ultramar, Inc.
P.O. Box 466
525 W. Third Street
Hanford, CA 93232-0466
(209) 582-0241

Telecopy: 209-585-5685 Credit
209-583-3330 Administrative
209-583-3302 Information Services
209-583-3358 Accounting

ENVIRONMENTAL PROJECT QUARTERLY STATUS REPORT

DATE REPORT SUBMITTED: July 14, 1998
QUARTER ENDING: June 30, 1998

SERVICE STATION NO.: 721
ADDRESS: 44 Lewelling Blvd., San Lorenzo, CA
COUNTY: Alameda

ULTRAMAR CONTACT: Terrence A. Fox **TEL. NO:** 209-583-5545

BACKGROUND:

In April 1987, three underground gasoline storage tanks were excavated and removed. Samples collected from beneath the former tanks indicated that hydrocarbons were present in the soil. In May 1987, three monitoring wells (MW-1 through MW-3) were installed by Conoco. Hydrocarbons were detected in soil and ground-water samples collected from the wells. In December 1988, four additional wells (MW-4 through MW-7) were installed. Dissolved-phase hydrocarbons were detected in the new wells. In September 1989, two additional wells (MW-8 and MW-9) were installed. The site has been on a monitoring program since May 1987.

In July 1990, the site was purchased by Ultramar Inc. from Conoco. The monitoring program has continued. Submitted work plan for additional assessment on March 14, 1991.

In October 1991, drilled two additional offsite wells (MW-10 and MW-11) southwest of the site and one onsite recovery well (RW-1). In November 1991, performed ground-water pump test and vapor extraction test.

In April 1992, Ultramar submitted an Interim Remediation Plan. The plan was approved in June 1992.

In March 1993, installed the subsurface piping for the remediation system. Completed installation of ground-water remediation system in April 1993. Began operation in June 1993.

In April 1993, the ground-water extraction system began operation. In March 1994, the vapor extraction system began operation.

Obtained the Permit to Operate for the vapor extraction system on June 8, 1994.

In December 1995, installed an air sparging system.

In January 1997, discontinued to operate the remediation system. Approximately 1,184,392 gallons of ground water have been removed, treated, and discharged. Approximately 103 gallons of hydrocarbons have been removed the vapor extraction system.

In October 1997, drilled confirmation borings. Results indicate soil clean.

SUMMARY OF THIS QUARTER'S ACTIVITIES:

Performed quarterly monitoring on May 26, 1998. The air sparging system was restarted on June 9, 1998.

RESULT OF QUARTERLY MONITORING:

Monitoring data indicates that benzene concentrations were not detected in wells MW-2, MW-4, MW-5, MW-6, MW-7, and MW-8. Benzene concentration were detected in MW-1, MW-3, MW-10, MW-11, and RW-1. MW-9 was not sampled this event.

PROPOSED ACTIVITY OR WORK FOR NEXT QUARTER:

ACTIVITY	ESTIMATED COMPLETION DATE
Continue quarterly ground-water monitoring.	Ongoing
Continue to operate the air sparging system.	

Delta
Environmental
Consultants, Inc.

3164 Gold Camp Drive
Suite 200
Rancho Cordova, CA 95670
916/638-2085
FAX: 916/638-8385

July 13, 1998

Mr. Terrence A. Fox
Ultramar, Inc.
525 West Third Street
Hanford, California 93230

Subject: *Quarterly Ground Water Monitoring Report, Second Quarter 1998*
Beacon Station No. 721
44 Lewelling Boulevard
San Lorenzo, California
Delta Project No. D093-936

Dear Mr. Fox:

Delta Environmental Consultants, Inc. (Delta), has been authorized by Ultramar, Inc. (Ultramar), to conduct quarterly ground water monitoring at the subject site. The monitoring is intended to evaluate the distribution of dissolved petroleum hydrocarbon constituents in ground water in the vicinity of the site. This report summarizes the results of ground water monitoring activities performed at the site on May 26 and 28, 1998. The site location is shown in Figure 1 and site features are illustrated in Figure 2.

Ground water monitoring included measurement of depth to ground water, subjective analyses of water samples to evaluate the presence or absence of free petroleum product or product sheen, and collection of ground water samples for chemical analysis. Methods used to perform these tasks are described in Enclosure A.

Ground Water Table Measurements and Flow Direction

On May 26, 1998, depth to ground water was measured in monitoring wells MW-1 through MW-11, and recovery well RW-1 at depths ranging from 11.45 (MW-7) to 16.25 (MW-11) feet below the top of the well casings. Ground water elevations have decreased an average of 1.15 feet since the previous quarterly event in March 1998. Cumulative ground water elevation measurements at the site are compiled in Table 1. Based on the ground water elevation measurements, the inferred ground water flow direction is generally toward the southwest with a gradient of less than 0.01. A ground water elevation contour map prepared from the current event data is included as Figure 3.

Ground Water Analytical Results

On May 28, 1998, ground water samples were collected from monitoring wells MW-1 through MW-8, MW-10, and MW-11, and recovery well RW-1. A ground water sample was not collected from monitoring well MW-9 because there was an automobile parked over the well. The ground water samples were submitted to Kiff Analytical of Davis, California (a California-certified laboratory), for analyses of benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by EPA Method 8020, and total petroleum hydrocarbons (TPH) as gasoline by EPA Method 8015 Modified. A copy of the sampling information data sheets are included in Enclosure B.

Benzene was not reported at or above the laboratory reporting limit in ground water samples collected from MW-2, or MW-4 through MW-8. Benzene was reported in the samples collected from wells MW-1, MW-3, MW-10, MW-11, and RW-1 at concentrations ranging from 14 micrograms per liter (µg/L) in MW-11 to 1,500 µg/L in MW-3. The samples collected from MW-1 through MW-3, MW-7, MW-10, MW-11, and RW-1 were reported to contain detectable concentrations of MTBE ranging from 24 µg/L in MW-11 to 97,000 µg/L in MW-2. Utilizing the May 1998 ground water analytical data, a benzene isoconcentration map was constructed and is included as Figure 4. Cumulative ground water analytical results for TPH as gasoline, BTEX, and MTBE are summarized in Table 1. A copy of the certified laboratory analytical report with chain-of-custody documentation is provided in Enclosure C.

Remediation System Status

The ground water treatment system was shut down in October 1996 due to low influent concentrations. The soil vapor extraction and air sparging system was shut down on June 22, 1997, as the results indicated asymptotic levels had been reached.

On June 9, 1998, the air sparging system was restarted. Air is currently being sparged into air sparging wells AS-1 through AS-3. Locations of the air sparging wells are illustrated on Figure 3.

Remarks\Signatures

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.

It is recommended that a copy of this report be forwarded to:

Mr. Steven Ritchie
California Regional Water Quality Control Board,
San Francisco Bay Region
2101 Webster Street
Oakland, California 94612

Ms. Amy Leech
Alameda County
Environmental Health Dept.
470 27th Street, Room 322
Oakland, California 94612

If you have any questions, please contact Richard Munsch at (916) 638-2164.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

William L. Brattain
Project Engineer

Richard D. Munsch
Project Manager

Steven W. Meeks, P.E.
California Registered Civil Engineer No. C057461

WLB (LRP013.936)
Enclosures

TABLE 1

GROUND WATER MONITORING DATA

Beacon Station No. 721
44 Lewelling Boulevard
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Comments
MW-1	02/18/92	43.67	16.42	27.25	NS	NS	NS	NS	NS	NS	
	05/14/92		17.28	26.39	NS	NS	NS	NS	NS	NS	
	05/15/92		NM	NC	2,000	47	1,200	400	41,000	NA	
	08/27/92		19.48	24.19	NS	NS	NS	NS	NS	NS	
	08/28/92		NM	NC	3,800	54	850	970	110,000	NA	
	11/19/92		20.57	23.10	200	<5.0	90	140	3,600	NA	
	02/03/93		15.91	27.76	180	22	79	130	3,000	NA	
	06/23/93		16.21	27.46	2,400	74	650	510	12,000	NA	No free product or sheen
	09/22/93		17.85	25.82	3,000	290	1,100	1,200	23,000	NA	No free product or sheen
	01/24/94		17.91	25.76	2,400	280	1,100	1,700	18,000	NA	
	04/07/94		16.94	26.73	4,200	820	1,600	2,100	20,000	NA	No free product or sheen
	06/07/94		17.20	26.47	1,800	510	1,100	1,600	26,000	NA	No free product or sheen
	09/28/94		18.73	24.94	1,700	210	970	870	18,000	NA	No free product or sheen
	12/14/94		17.56	26.11	4,400	2,400	2,300	4,300	31,000	NA	Product sheen
	03/15/95		14.92	28.75	830	310	840	1,200	17,000	NA	Product sheen
	06/13/95		15.38	28.29	1,300	99	1,500	1,100	22,000	NA	No free product or sheen
	09/28/95		16.75	26.92	580	<25	780	410	8,800	NA	No free product or sheen
	12/28/95		17.28	26.39	4.9	<1.3	<1.3	290	4,800	74	No free product or sheen
	01/30/96		NM	NC	17	7.1	20	45	1,500	63	Not measured
	03/12/96		14.13	29.54	<0.5	<0.5	<0.5	<0.5	110	44	No free product or sheen
	06/11/96		14.90	28.77	48	0.9	37	26	600	75	No free product or sheen
	10/02/96		16.31	27.36	16	<0.5	6	0.92	210	11	No free product or sheen
	01/28//97		12.99	30.68	<0.5	<0.5	<0.5	<0.5	150	160	No free product or sheen
	05/20/97		15.28	28.39	<2.5	<2.5	<2.5	<2.5	680	640	No free product or sheen
	08/18/97		16.74	26.93	<2.5	<2.5	<2.5	<2.5	<250	540	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	Not measured
	11/05/97		17.45	26.22	2.8	<2.5	<2.5	<2.5	<250	400/390[b]	No free product or sheen
	03/31/98		12.47	31.20	260	13	110	150	3,300	7,900	No free product or sheen
	05/26/98		13.69	29.98	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	120	<10	39	55	7,800	9,300	No free productor sheen

TABLE 1

GROUND WATER MONITORING DATA

Beacon Station No. 721
44 Lewelling Boulevard
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Comments
MW-2	02/18/92	43.09	16.65	26.44	<0.5	<0.5	1.9	<0.5	1,600	NA	
	05/14/92		16.64	26.45	1.2	1	1.3	<0.5	740	NA	
	08/27/92		16.61	26.28	6.5	1.1	0.6	<0.5	1,400	NA	
	11/19/92		19.91	23.18	<0.5	<0.5	2.7	<0.5	360	NA	
	02/03/93		15.23	27.86	1.2	1.6	4.5	6.4	590	NA	
	06/23/93		15.55	27.54	<0.5	<0.5	0.52	0.5	160	NA	No free product or sheen
	09/22/93		17.22	25.87	<0.5	0.59	1.2	0.59	290	NA	No free product or sheen
	01/24/94		17.20	25.89	<0.5	<0.5	0.68	<0.5	330	NA	
	04/07/94		16.26	26.83	<0.5	<0.5	<0.5	4.4	490	NA	No free product or sheen
	06/07/94		16.46	26.63	<0.5	<0.5	1.5	<0.5	550	NA	No free product or sheen
	09/28/94		18.06	25.03	<0.5	<0.5	<0.5	<0.5	190	NA	No free product or sheen
	12/14/94		16.86	26.23	7.2	0.84	<0.5	<0.5	1,400	NA	No free product or sheen
	03/15/95		14.08	29.01	39	<0.5	0.53	<0.5	730	NA	No free product or sheen
	06/13/95		14.67	28.42	8.3	<0.5	<0.5	<0.5	750[a]	NA	No free product or sheen
	09/28/95		16.07	27.02	<0.5	<0.5	<0.5	<0.5	670[a]	NA	No free product or sheen
	12/28/95		16.46	26.63	9.5	<5.0	<5.0	5.2	3,100	4,600	No free product or sheen
	03/12/96		13.11	29.98	<1.3	<1.3	<1.3	<1.3	710	3,200	No free product or sheen
	06/11/96		14.14	28.95	1.6	<1.3	<1.3	<1.3	1,900[a]	5,100	No free product or sheen
	10/02/96		15.71	27.38	<2.5	<2.5	<2.5	<2.5	2,800	7,900	No free product or sheen
	01/28/97		12.05	31.04	<0.5	<0.5	<0.5	<0.5	130	210	No free product or sheen
	05/20/97		14.65	28.44	120	16	<2.5	4.0	1,400	390	No free product or sheen
	08/18/97		16.00	27.09	<2.5	<2.5	<2.5	<2.5	<250	2,000	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	Not measured
	11/05/97		16.75	26.34	<2.5	<2.5	<2.5	<2.5	<250	2,900/2,900[b]	No free product or sheen
	03/31/98		11.54	31.55	<0.5	<0.5	<0.5	<0.5	<10,000	85,000	No free product or sheen
	05/26/98		12.78	30.31	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	<500	<500	<500	<500	<50,000	97,000	No free product or sheen

TABLE 1

GROUND WATER MONITORING DATA

Beacon Station No. 721
44 Lewelling Boulevard
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Comments
MW-3	02/18/92	43.10	16.89	26.21	NS	NS	NS	NS	NS	NS	
	05/14/92		16.60	26.50	NS	NS	NS	NS	NS	NS	
	05/15/92		NM	NC	6,300	5,900	1,700	6,100	160,000	NA	
	08/27/92		18.96	24.14	NS	NS	NS	NS	NS	NS	
	08/28/92		NM	NC	2,500	40,000	6,700	44,000	1,300,000	NA	
	11/18/92		20.38	23.01	NS	NS	NS	NS	NS	NS	
	11/19/92		NM	NC	NS	NS	NS	NS	NS	NS	
	02/03/93		15.43	27.67	7,200	11,000	2,900	13,000	82,000	NA	
	06/23/93		15.67	27.43	3,200	5,300	2,500	9,100	61,000	NA	Product sheen
	09/22/93		17.20	25.90	12,000	14,000	3,900	18,000	94,000	NA	No free product or sheen
	01/24/94		17.35	25.75	14,000	17,000	4,200	14,000	110,000	NA	
	04/07/94		14.48	28.62	6,500	1,800	1,700	4,100	28,000	NA	No free product or sheen
	06/07/94		13.37	29.73	6,400	2,300	1,500	3,500	27,000	NA	Product sheen
	09/28/94		18.05	25.05	7,400	4,300	1,500	4,600	40,000	NA	No free product or sheen
	12/14/94		16.92	26.18	17,000	21,000	3,900	22,000	140,000	NA	Product sheen
	03/15/95		14.22	28.88	4,900	1,900	1,800	7,100	58,000	NA	Product sheen
	06/13/95		14.49	28.61	7,200	2,900	1,200	4,600	44,000	NA	Product sheen
	09/28/95		15.17	27.93	5,600	2,100	1,900	6,900	30,000	NA	No free product or sheen
	12/28/95		15.45	27.65	32	5.8	18	4,700	16,000	360	No free product or sheen
	01/30/96		NM	NC	850	800	190	1,700	8,700	430	Not measured
	03/12/96		11.35	31.75	48	64	5.3	630	2,400	97	No free product or sheen
	06/11/96		Dry	Dry	NS	NS	NS	NS	NS	NS	Dry
	10/02/96		Dry	Dry	NS	NS	NS	NS	NS	NS	Dry
	01/28/97		Dry	Dry	NS	NS	NS	NS	NS	NS	Dry
	05/20/97		Dry	Dry	NS	NS	NS	NS	NS	NS	Plugged at 14 feet
	07/10/97		NM	NC	<0.50	<0.50	<0.50	4.8	300	40	Not measured
	08/18/97		16.05	27.05	480	8.4	100	230	3,600	170	No free product or sheen
	09/29/97		NM	NC	740	8.6	160	240	3500	210	Not measured
	11/05/97		16.78	26.32	870	15	180	210	4,100	240/210[b]	No free product or sheen
	03/31/98		11.55	31.55	1,800	600	410	1,400	12,000	510	No free product or sheen

TABLE 1

GROUND WATER MONITORING DATA

Beacon Station No. 721
44 Lewelling Boulevard
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Comments
MW-3	05/26/98		12.80	30.30	NS	NS	NS	NS	NS	NS	No free product or sheen
(Cont.)	05/28/98		NM	NC	1,500	400	280	870	6,500	480	No free product or sheen

TABLE 1

GROUND WATER MONITORING DATA

Beacon Station No. 721
44 Lewelling Boulevard
San Lorenzo, California

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

TABLE 1

GROUND WATER MONITORING DATA

Beacon Station No. 721
44 Lewelling Boulevard
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Comments
MW-5	02/18/92	43.79	17.37	26.42	<0.5	<0.5	<0.5	<0.5	<50	NA	
	05/14/92		17.29	26.50	<0.5	<0.05	<0.5	<0.5	<50	NA	
	08/27/92		22.18	21.61	<0.5	<0.5	<0.5	<0.5	<50	NA	
	11/19/92		20.68	23.11	<0.5	<0.5	<0.5	<0.5	<50	NA	
	02/03/93		15.91	27.88	3.0	2.7	8.0	9.9	55	NA	
	06/23/93		16.24	27.55	<0.5	<0.5	<0.5	<0.5	<50	NA	No free product or sheen
	09/22/93		17.93	25.86	0.66	1.1	<0.5	0.6	<50	NA	No free product or sheen
	01/24/94		17.82	25.97	<0.5	<0.5	<0.5	<0.5	<50	NA	
	04/07/94		16.91	26.88	<0.5	<0.5	<0.5	<0.5	<50	NA	No free product or sheen
	06/07/94		17.10	26.69	<0.5	<0.5	<0.5	<0.5	<50	NA	No free product or sheen
	09/28/94		18.73	25.06	<0.5	<0.5	<0.5	<0.5	<50	NA	No free product or sheen
	12/14/94		17.53	26.26	<0.5	<0.5	<0.5	<0.5	<50	NA	No free product or sheen
	03/15/95		14.96	28.83	<0.5	<0.5	<0.5	<0.5	<50	NA	No free product or sheen
	06/13/95		15.30	28.49	<0.5	0.52	<0.5	<0.5	<50	NA	No free product or sheen
	09/28/95		16.74	27.05	<0.5	<0.5	<0.5	<0.5	<50	NA	No free product or sheen
	12/28/95		15.10	28.69	<0.5	<0.5	<0.5	<0.5	120	<5.0	No free product or sheen
	03/12/96		13.67	30.12	<0.5	<0.5	<0.5	<0.5	<50	9.2	No free product or sheen
	06/11/96		14.88	28.91	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No free product or sheen
	10/02/96		16.42	27.37	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No free product or sheen
	01/28/97		12.83	30.96	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No free product or sheen
	05/20/97		15.33	28.46	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No free product or sheen
	08/18/97		16.69	27.10	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	Not measured
	11/05/97		17.37	26.42	<0.5	<0.5	<0.5	<0.5	<50	<5.0/<0.5[b]	No free product or sheen
	03/31/98		12.40	31.39	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No free product or sheen
	05/26/98		13.62	30.17	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No free product or sheen

TABLE 1

GROUND WATER MONITORING DATA

Beacon Station No. 721
44 Lewelling Boulevard
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Comments
MW-6	02/18/92	42.47	15.87	26.60	4.8	<0.5	<0.5	<0.5	370	NA	
	05/14/92		16.04	26.43	<0.5	<0.5	<0.5	<0.5	120	NA	
	08/27/92		18.17	24.30	1.2	<0.5	<0.5	<0.5	<50	NA	
	11/19/92		19.30	23.17	1.3	<0.5	1	1.1	66	NA	
	02/03/93		14.60	27.87	1.9	2.6	23	12	100	NA	
	06/23/93		15.00	27.47	<0.5	<0.5	<0.5	<0.5	<50	NA	No free product or sheen
	09/22/93		16.66	25.81	2.2	3.8	0.53	2.7	81	NA	No free product or sheen
	01/24/94		16.52	25.95	<0.5	<0.5	<0.5	<0.5	98	NA	
	04/07/94		15.70	26.77	0.71	<0.5	<0.5	<0.5	150	NA	No free product or sheen
	06/07/94		15.88	26.59	<0.5	<0.5	<0.5	<0.5	180	NA	No free product or sheen
	09/28/94		17.51	24.96	<0.5	<0.5	<0.5	<0.5	100	NA	No free product or sheen
	12/14/94		16.27	26.20	<0.5	<0.5	<0.5	<0.5	140	NA	No free product or sheen
	03/15/95		13.52	28.95	<0.5	<0.5	<0.5	<0.5	110	NA	No free product or sheen
	06/13/95		13.96	28.51	<0.5	0.87	<0.5	<0.5	150[a]	NA	No free product or sheen
	09/28/95		15.61	26.86	0.78	<0.5	<0.5	<0.5	<50	NA	No free product or sheen
	12/28/95		15.54	26.93	<0.5	<0.5	<0.5	6.3	410	70	No free product or sheen
	01/30/96		NM	NC	1.0	<0.5	<0.5	11	81	46	Not measured
	03/12/96		11.88	30.59	<0.5	<0.5	<0.5	<0.5	<50	7.1	No free product or sheen
	06/11/96		13.52	28.95	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No free product or sheen
	10/02/96		15.10	27.37	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No free product or sheen
	01/28/97		11.18	31.29	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No free product or sheen
	05/20/97		14.00	28.47	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No free product or sheen
	08/18/97		15.54	26.93	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	Not measured
	11/05/97		16.25	26.22	<0.5	<0.5	<0.5	<0.5	<50	<5.0/2.8[b]	No free product or sheen
	03/31/98		10.60	31.87	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No free product or sheen
	05/26/98		12.01	30.46	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No free product or sheen

TABLE 1

GROUND WATER MONITORING DATA

Beacon Station No. 721
44 Lewelling Boulevard
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Comments
MW-7	02/18/92	41.54	15.51	26.03	16	<0.5	10	16	670	NA	
	05/14/92		15.41	26.13	44	<0.5	38	88	1,500	NA	
	08/27/92		17.45	24.09	400	5.8	290	1,400	23,000	NA	
	11/19/92		18.54	23.00	29	<0.5	10	53	330	NA	
	02/03/93		14.10	27.44	200	<0.5	110	480	2,000	NA	
	06/23/93		14.33	27.21	20	<0.5	16	16	280	NA	No free product or sheen
	09/22/93		15.92	25.62	71	2.2	33	210	860	NA	No free product or sheen
	01/24/94		16.07	25.47	61	<1.3	10	160	900	NA	
	04/07/94		15.10	26.44	53	<0.5	7.1	49	630	NA	
	06/07/94		15.16	26.38	55	<0.5	14	24	730	NA	No free product or sheen
	09/28/94		16.82	24.72	21	<0.5	2.3	3.1	300	NA	No free product or sheen
	12/14/94		15.75	25.79	19	<0.5	3.3	32	430	NA	No free product or sheen
	03/15/95		14.00	27.54	0.88	<0.5	<0.5	<0.5	70	NA	No free product or sheen
	06/13/95		13.44	28.10	7.3	0.79	7.6	8.9	190	NA	No free product or sheen
	09/28/95		14.84	26.70	1.5	<0.5	1.2	0.84	60	NA	No free product or sheen
	12/28/95		14.55	26.99	<0.5	<0.5	0.91	0.69	60	9.8	No free product or sheen
	03/12/96		11.88	29.66	<0.5	<0.5	<0.5	<0.5	<50	11	No free product or sheen
	06/11/96		13.52	28.58	<0.5	<0.5	<0.5	<0.5	79	16	No free product or sheen
	10/02/96		14.50	27.04	<0.5	<0.5	<0.5	<0.5	<50	26	No free product or sheen
	01/28/97		11.08	30.46	<0.5	<0.5	<0.5	<0.5	<50	13	No free product or sheen
	05/20/97		13.46	28.08	<0.5	0.85	<0.5	<0.5	78	40	No free product or sheen
	08/18/97		14.95	26.59	<0.5	<0.5	<0.5	<0.5	<50	18	No free product or sheen
	09/29/97		NM	NC	NS	NS	NS	NS	NS	NS	Not measured
	11/05/97		15.43	26.11	<0.5	<0.5	<0.5	<0.5	<50	8.9/8.0[b]	No free product or sheen
	03/31/98		10.25	31.29	<0.5	<0.5	<0.5	1.3	<5.0	6.2	No free product or sheen
	05/26/98		11.45	30.09	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	<0.5	<0.5	<0.5	<0.5	<50	9.8	No free product or sheen

TABLE 1

GROUND WATER MONITORING DATA

Beacon Station No. 721
44 Lewelling Boulevard
San Lorenzo, California

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

TABLE 1

GROUND WATER MONITORING DATA

Beacon Station No. 721
44 Lewelling Boulevard
San Lorenzo, California

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

TABLE 1

GROUND WATER MONITORING DATA

Beacon Station No. 721
44 Lewelling Boulevard
San Lorenzo, California

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

TABLE 1

GROUND WATER MONITORING DATA

Beacon Station No. 721
44 Lewelling Boulevard
San Lorenzo, California

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

TABLE 1

GROUND WATER MONITORING DATA

Beacon Station No. 721
44 Lewelling Boulevard
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Comments
RW-1	05/14/92	43.17	16.88	26.29	NS	NS	NS	NS	NS	NS	
	05/15/92		NM	NC	270	62	29	140	790	NA	
	08/27/92		19.05	24.12	1,300	200	68	810	24,000	NA	
	11/19/92		21.11	22.07	NS	NS	NS	NS	NS	NS	
	02/03/92		15.48	27.69	71	35	22	110	620	NA	
	06/23/93		28.25	14.92	30	33	9.8	35	220	NA	No free product or sheen
	09/22/93		17.83	25.34	800	400	170	910	4,100	NA	No free product or sheen
	01/24/94		24.00	19.17	33	6	6.9	23	190	NA	
	04/07/94		16.05	27.12	110	57	32	260	1,500	NA	No free product or sheen
	06/07/94		16.00	27.17	130	51	45	180	1,700	NA	No free product or sheen
	09/28/94		18.35	24.82	54	9.2	12	29	350	NA	No free product or sheen
	12/14/94		19.50	23.67	6.8	2.1	1.2	3.4	79	NA	No free product or sheen
	03/15/95		17.00	26.17	NS	NS	NS	NS	NS	NS	No free product or sheen
	04/10/95		NM	NC	54	11	11	69	410	NA	Not measured
	06/13/95		14.95	28.22	1,600	780	340	1,400	8,200	NA	No free product or sheen
	09/28/95		27.63	15.54	<0.5	<0.5	<0.5	<0.5	<50	NA	No free product or sheen
	12/28/95		14.54	28.63	<0.5	<0.5	<0.5	<0.5	<50	<5.0	No free product or sheen
	03/12/96		11.02	32.15	<0.5	<0.5	<0.5	<0.5	86	110	No free product or sheen
	06/11/96		14.52	28.65	38	11	4.7	50	230	68	No free product or sheen
	10/02/96		15.53	27.64	68	29	14	75	360	47	No free product or sheen
	01/28/97		12.59	30.58	0.77	<0.5	<0.5	<0.5	<50	8.8	No free product or sheen
	05/20/97		14.85	28.32	<0.5	<0.5	<0.5	<0.5	<50	32	No free product or sheen

TABLE 1

GROUND WATER MONITORING DATA

Beacon Station No. 721
44 Lewelling Boulevard
San Lorenzo, California

Monitoring Well	Date	Top of Riser Elevation (ft)	Depth to Water (ft)	Ground Water Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH as gasoline (µg/L)	MTBE (µg/L)	Comments
RW-1	08/18/97	43.17	16.19	26.98	25	<0.5	<0.5	3.6	220	170	No free product or sheen
(cont)	09/29/97		NM	NC	240	2.8	51	55	900	230	Not measured
	11/05/97		16.95	26.22	340	3.2	59	78	1,300	240/220[b]	No free product or sheen
	03/31/98		11.85	31.32	450	130	200	940	4,100	4,100	No free product or sheen
	05/26/98		13.13	30.04	NS	NS	NS	NS	NS	NS	No free product or sheen
	05/28/98		NM	NC	830	210	170	720	17,000	14,000	No free product or sheen

[a] Product is not typical gasoline.
[b] MTBE by EPA Method 8020/EPA Method 8260.

Top of Riser Elevations = Elevations surveyed by Aegis Environmental and are assumed relative to mean sea level.
TPH = Total petroleum hydrocarbons.
MTBE = Methyl tertiary butyl ether.
µg/L = Micrograms per liter.

NS = Not sampled.
NA = Not analyzed.
NM = Not measured.
NC = Not calculated.

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

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

FIGURE 1
SITE LOCATION MAP
BEACON STATION NO. 721
44 LEWELLING BOULEVARD
SAN LORENZO, CA.

PROJECT NO. 40-93-936	DRAWN BY I.H. 11/2/92
FILE NO. —	PREPARED BY TMG
REVISION NO. 1	REVIEWED BY TMG 11/19/92

Delta Environmental Consultants, Inc.

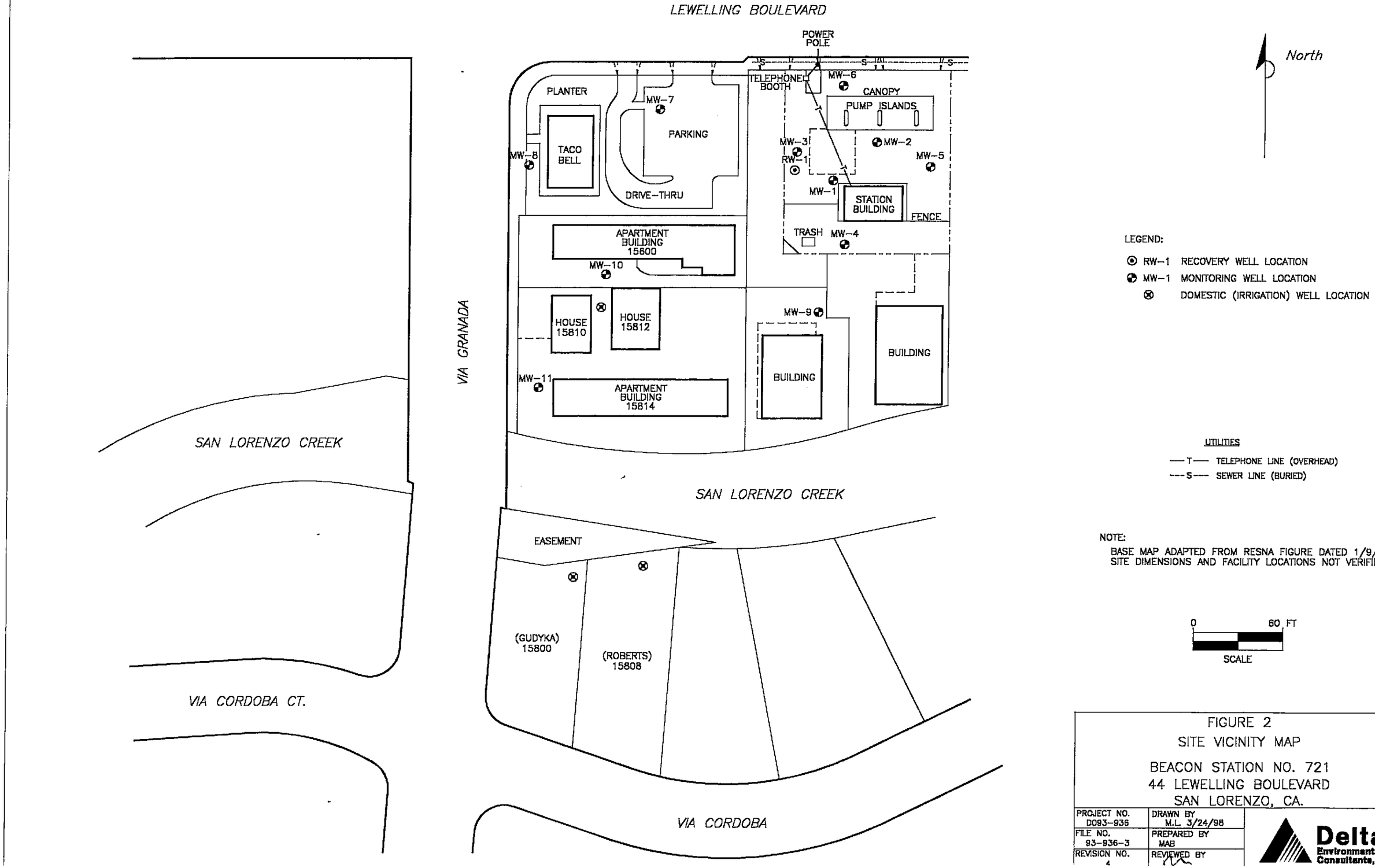


FIGURE 2
SITE VICINITY MAP

BEACON STATION NO. 721
44 LEWELLING BOULEVARD
SAN LORENZO, CA.

PROJECT NO. D093-936	DRAWN BY M.L. 3/24/98
FILE NO. 93-936-3	PREPARED BY MAB
REVISION NO. 4	REVIEWED BY

Delta Environmental Consultants, Inc.

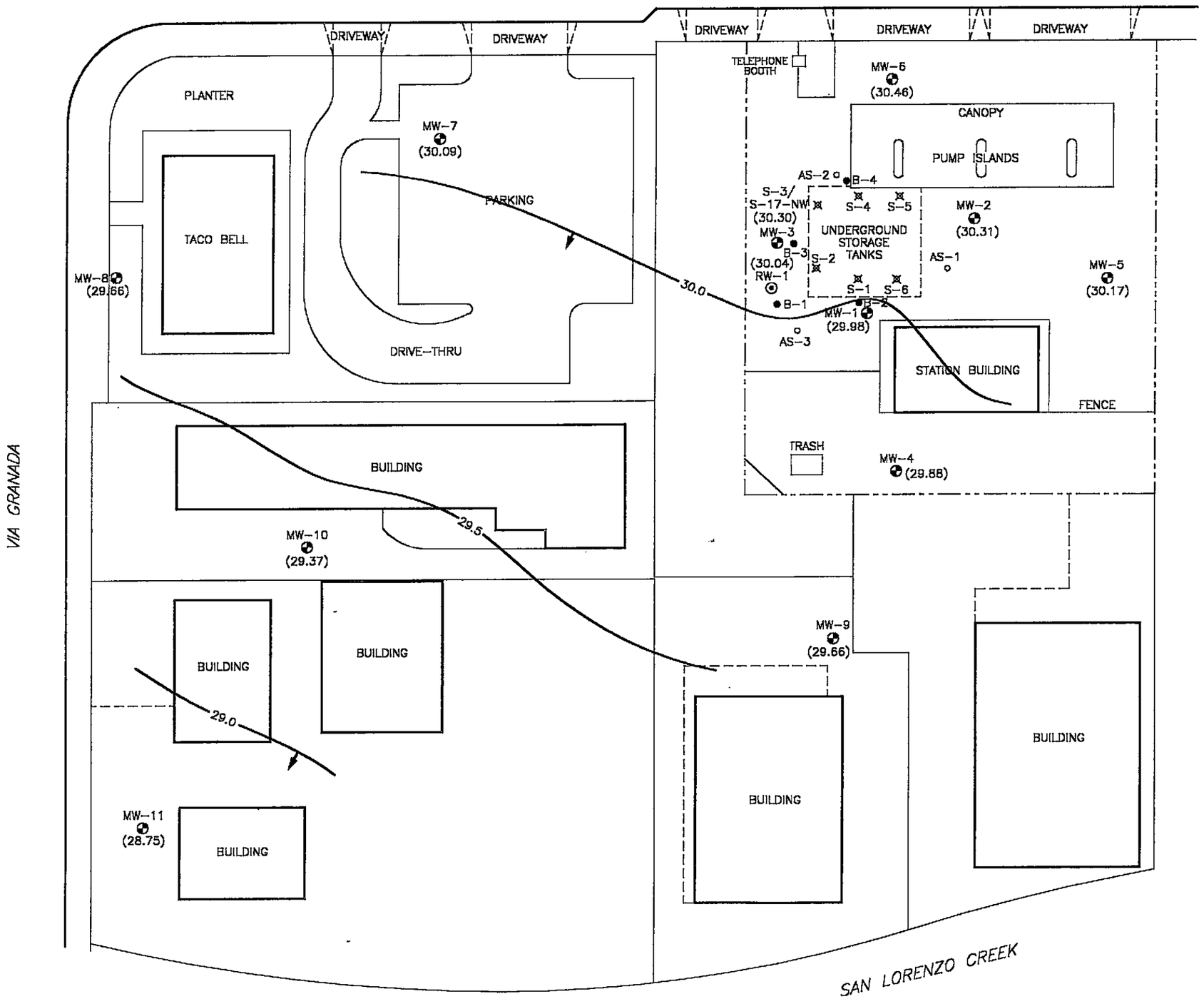
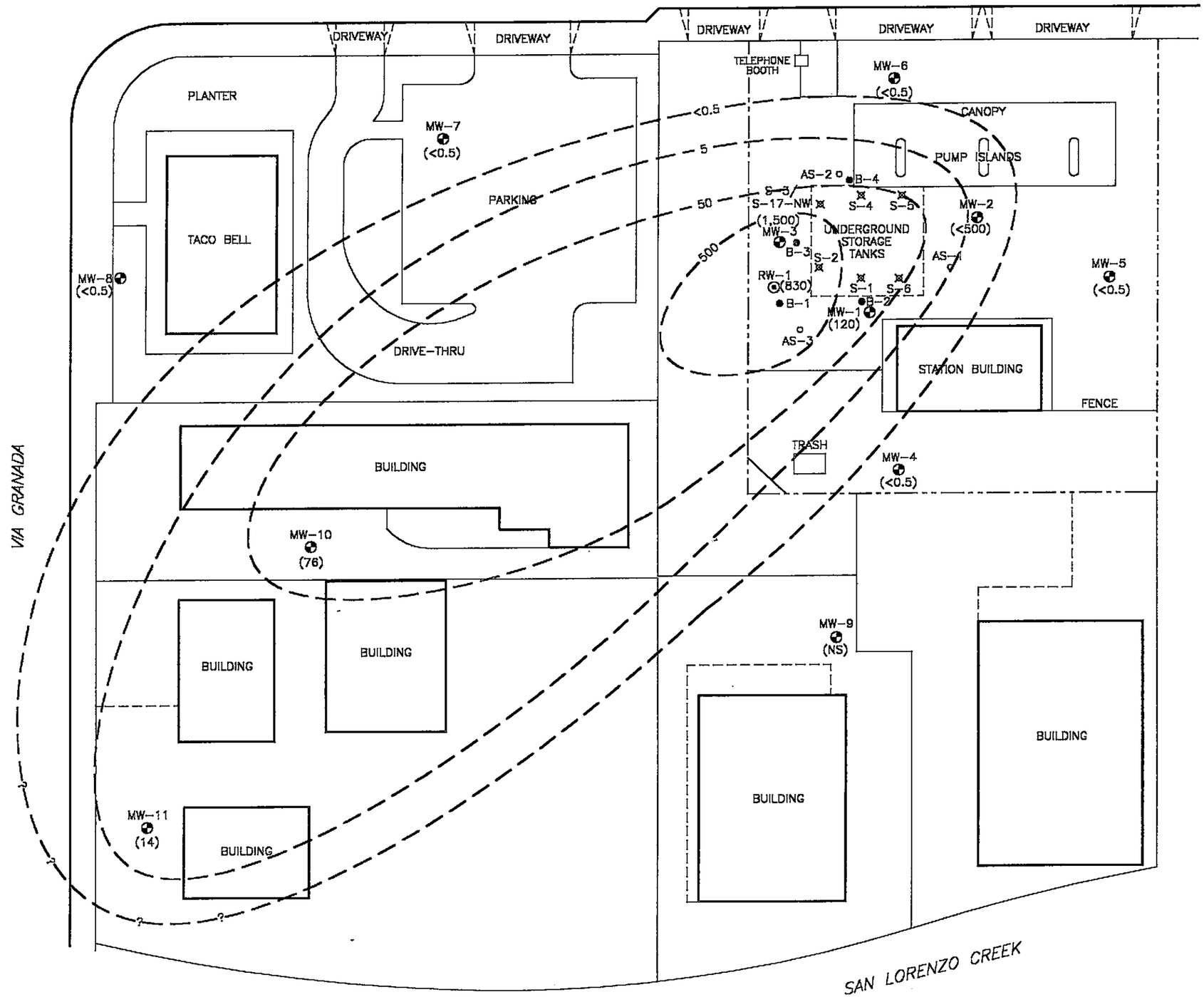


FIGURE 3
GROUND WATER ELEVATION CONTOUR MAP
5/26/98
BEACON STATION NO. 721
44 LEWELLING BOULEVARD
SAN LORENZO, CA.

PROJECT NO. D093-836	DRAWN BY M.L 6/11/98
FILE NO. 93-836-1	PREPARED BY WLB
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.



North

LEGEND:

⊙ RW-1	RECOVERY WELL LOCATION
⊕ MW-1	MONITORING WELL LOCATION
○ AS-1	AIR SPARGING WELL LOCATION
⊠ S-1	UST BASIN SOIL SAMPLE LOCATION
● B-2	SOIL BORING LOCATION
(120)	BENZENE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
— 5 —	BENZENE ISOCONCENTRATION IN ug/L
NS	NOT SAMPLED

NOTE:
BASE MAP ADAPTED FROM RESNA FIGURE DATED 1/9/92
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED

0 30 FT
SCALE

FIGURE 4
DISSOLVED BENZENE ISOCONCENTRATION MAP
5/28/98
BEACON STATION NO. 721
44 LEWELLING BOULEVARD
SAN LORENZO, CA.

PROJECT NO. D093-936	DRAWN BY M.L. 6/12/98
FILE NO. 93-936-1	PREPARED BY WLB
REVISION NO. 2	REVIEWED BY

Delta Environmental Consultants, Inc.

QUALITY ASSURANCE PLAN

This section describes the field and analytical procedures to be followed throughout the investigation.

General Sample Collection and Handling Procedures

Proper collection and handling are essential to ensure the quality of a sample. Each sample is collected in a suitable container, preserved correctly for the intended analysis, and stored prior to analysis for no longer than the maximum allowable holding time. Details on the procedures for collection and handling of samples used on this project can be found in this section.

Water Sample Collection for Volatile Organic Analyses

For volatile organic analyses (VOA), the water sample is decanted into each VOA vial in such a manner that there is no meniscus at the top of the vial. A cap is quickly secured to the top of the vial. The vial is inverted and gently tapped to see if air bubbles are present. If none are present, the vial is labeled and refrigerated according to soil and water sample labeling and preservation.

Water Sample Labeling and Preservation

Label information includes a unique sample identification number, job identification number, date, and time. After labeling, all soil and water samples are placed in a Ziploc® type bag and placed in an ice chest cooled to approximately 4° Celsius. Upon arriving at Delta's office, the samples are transferred to a locked refrigerator cooled to approximately 4° Celsius. Chemical preservation is controlled by the required analysis and is noted on the chain of custody form.

Upon recovery, the sample container is sealed to minimize the potential of volatilization and cross-contamination prior to chemical analysis. Soil sampling tubes are typically closed at each end with Teflon® sheeting and plastic caps. The sample is then placed in a Ziploc® type bag and sealed. The sample is labeled and refrigerated at approximately 4° Celsius for delivery, under strict chain-of-custody, to the analytical laboratory.

Sample Identification and Chain-of-Custody Procedures

Sample identification and chain-of-custody procedures document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis has a label affixed to identify the job number, sampler, date and time of sample collection, and a sample number unique to that sample. This information, in addition to a description of the sample, field measurements made, sampling

methodology, names of on-site personnel, and any other pertinent field observations, is recorded on the borehole log or in the field records. Samples are analyzed by a California-certified laboratory.

A chain-of-custody form is used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples are shipped, the person in custody of them relinquishes the samples by signing the chain-of-custody form and noting the time. The sample-control officer at the laboratory verifies sample integrity and confirms that the samples are collected in the proper containers, preserved correctly, and contain adequate volumes for analysis.

If these conditions are met, each sample is assigned a unique log number for identification throughout analysis and reporting. The log number is recorded on the chain-of-custody form and in the legally-required log book, maintained by the laboratory, in the laboratory. The sample description, date received, client's name, and other relevant information is also recorded.

SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# MW-1 Project Name: Beacon 721 Project No. D093-936

Location (address) 44 LEWELLING BLVD. SAN LORENZO, CA

Date Sampled: 5/28/98 Time: 1120

Wellhead assembly condition: ✓ Good _____ Fair _____ Poor (If poor, see comments)

Equipment Replaced: _____ bolts _____ locks _____ locking cap

Well Depth 31.20 ft below top of casing Casing diameter 2 inches

Depth to water (below top of casing) 13.69 ft. Date: 5/26/98 Time 1044

Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"

Purging method: _____ Submersible pump _____ Bailer X Centrifugal pump _____ Other _____

At least 4 well volumes have been evacuated before sampling.

Tubing (type: Disposable). (new ~~or previously used~~) was used to purge well

Sampling method: X Disposable bailer _____ Sampling port

Samples collected 2 VOA's - BTEX; TPHg / 2 VOA's - MTBE Sample appearance Clear

Note any sampling problems _____

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
		+ RAIN -			
					11 gal

Comments: _____

Transportation (thermal preservation) COOLER + ICE

Form completed by: MNM Sampled by: MWM

SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# MW-2 Project Name: BEACON 721 Project No. D093-936

Location (address) 44 LEWELLING BLVD. SAN LORENZO, CA

Date Sampled: 5/28/98 Time: 1040

Wellhead assembly condition: X Good ____ Fair ____ Poor (If poor, see comments)

Equipment Replaced: ____ bolts ____ locks ____ locking cap

Well Depth 33.30 ft below top of casing Casing diameter 2 inches

Depth to water (below top of casing) 12.78 ft. Date: 5/26/98 Time 1034

Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"

Purging method: ____ Submersible pump ____ Bailer X Centrifugal pump ____ Other ____

At least 4 well volumes have been evacuated before sampling.

Tubing (type: Disposable). (new) or ~~previously used~~) was used to purge well

Sampling method: X Disposable bailer ____ Sampling port

Samples collected 2 VOA's - BTEX, TPHg / 2 VOA's - MTBE Sample appearance Clear

Note any sampling problems ____

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
	+ RAIN -				

Comments: 13 gal

Transportation (thermal preservation) COOLER & ICE

Form completed by: MWM Sampled by: MWM

SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# MW-3 Project Name: BEACON 721 Project No. D093-936

Location (address) 44 LEWELLING BLVD. SAN LORENZO, CA

Date Sampled: 5/28/98 Time: 1140

Wellhead assembly condition: X Good ____ Fair ____ Poor (If poor, see comments)

Equipment Replaced: ____ bolts ____ locks ____ locking cap

Well Depth 29.30 ft below top of casing Casing diameter 2 inches

Depth to water (below top of casing) 12.80 ft. Date: 5/26/98 Time 1047

Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"

Purging method: ____ Submersible pump ____ Bailer X Centrifugal pump ____ Other ____

At least 4 well volumes have been evacuated before sampling.

Tubing (type: Disposable). (new ~~or previously used~~) was used to purge well

Sampling method: X Disposable bailer ____ Sampling port

Samples collected 2VOA's - BTEX; TPHg / 2VOA's - MTBE Sample appearance Cloudy

Were any sampling problems ____

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (mmos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
		-RAIN-			
					11 gal

Comments: ____

Transportation (thermal preservation) COOLER & ICE

Form completed by: MWM Sampled by: MWM

SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# MW-4 Project Name: BEACON 721 Project No. D093-936

Location (address) 44 LEWELLING BLVD. SAN LORENZO, CA

Date Sampled: 5/28/98 Time: 1100

Wellhead assembly condition: X Good ____ Fair ____ Poor (If poor, see comments)

Equipment Replaced: ____ bolts ____ locks ____ locking cap

Well Depth 24.60 ft below top of casing Casing diameter 2 inches

Depth to water (below top of casing) 14.78 ft. Date: 5/26/98 Time 1040

Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"

Purging method: ____ Submersible pump ____ Bailer X Centrifugal pump ____ Other ____

At least 4 well volumes have been evacuated before sampling.

Tubing (type: Disposable). (new) or ~~previously used~~) was used to purge well

Sampling method: X Disposable bailer ____ Sampling port

Samples collected 2 VOA's - BTEX; TPHg / 2 VOA's - MTBE Sample appearance Clear

Note any sampling problems ____

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
		- RAIN -			

Comments: 10gal

Transportation (thermal preservation) COOLER & ICE

Form completed by: MWM Sampled by: MWM

SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

ample ID# MW-5 Project Name: BEACON 721 Project No. D093-936

ocation (address) 44 LEWELLING BLVD. SAN LORENZO, CA

ate Sampled: 5/28/98 Time: 1015

Vellhead assembly condition: X Good ____ Fair ____ Poor (If poor, see comments)

quipment Replaced: ____ bolts ____ locks ____ locking cap

Vell Depth 29.20 ft below top of casing Casing diameter 2 inches

epth to water (below top of casing) 13.62 ft. Date: 5/26/98 Time 1031

Vell Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"

urging method: ____ Submersible pump ____ Bailer X Centrifugal pump ____ Other ____

t least 4 well volumes have been evacuated before sampling.

ubing (type: Disposable). (new) ~~or previously used~~ was used to purge well

ampling method: X Disposable bailer ____ Sampling port

amples collected 2 VOA's - BTEX; TPHg Sample appearance Clear

ote any sampling problems ____

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
		-RAIN-			

omments: 10 gal

ansportation (thermal preservation) cooler & ice

rm completed by: MWM Sampled by: MWM

SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# MW-6 Project Name: BEACON 721 Project No. D093-936

Location (address) 44 LEWELLING BLVD. SAN LORENZO, CA

Date Sampled: 5/28/98 Time: 0955

Wellhead assembly condition: X Good ____ Fair ____ Poor (If poor, see comments)

Equipment Replaced: ____ bolts ____ locks ____ locking cap

Well Depth 28.70 ft below top of casing Casing diameter 2 inches

Depth to water (below top of casing) 12.01 ft. Date: 5/28/98 Time 1026

Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"

Purging method: ____ Submersible pump ____ Bailer X Centrifugal pump ____ Other ____

At least 4 well volumes have been evacuated before sampling.

Tubing (type: Disposable). (new) ~~or previously used~~) was used to purge well

Sampling method: X Disposable bailer ____ Sampling port

Samples collected 2 VOA's - BTEX, TPHg / 2 VOA's - MTBE Sample appearance Clear

Note any sampling problems ____

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
		-RAIN-			
					11 gal

Comments: ____

Transportation (thermal preservation) Cooler & ice

Form completed by: MWM Sampled by: MWM

SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

ample ID# MW-7 Project Name: BEACON 721 Project No. 2093-936

ocation (address) 44 LEWELLING BLVD SAN LORENZO, CA

ate Sampled: 5 / 28 / 98 Time: 0935

Vellhead assembly condition: X Good ____ Fair ____ Poor (If poor, see comments)

quipment Replaced: ____ bolts ____ locks ____ locking cap

Vell Depth 24.30 ft below top of casing Casing diameter 2 inches

epth to water (below top of casing) 11.45 ft Date: 5 / 28 / 98 Time 1014

Vell Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"

urging method: ____ Submersible pump ____ Bailer X Centrifugal pump ____ Other ____

t least 4 well volumes have been evacuated before sampling.

ubing (type: Disposable). (new) ~~or previously used~~) was used to purge well

ampling method: X Disposable bailer ____ Sampling port

amples collected 2 VOA's - BTEX; TPHg / 2 VOA's - MTBE Sample appearance Clear

ave any sampling problems ____

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
	+ RAIN -				
					8 gal

omments: ____

ansportation (thermal preservation) COOLER & ICE

orm completed by: MWM Sampled by: MWM

SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# MW-8 Project Name: BEACON 721 Project No. D093-936

Location (address) 44 LEWELLING BLVD. SAN LORENZO, CA

Date Sampled: 5 / 28 / 98 Time: 0915

Wellhead assembly condition: X Good ____ Fair ____ Poor (If poor, see comments)

Equipment Replaced: ____ bolts ____ locks ____ locking cap

Well Depth 23.20 ft below top of casing Casing diameter 2 inches

Depth to water (below top of casing) 12.60 ft. Date: 5 / 26 / 98 Time 1010

Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"

Purging method: ____ Submersible pump ____ Bailer X Centrifugal pump ____ Other ____

At least 4 well volumes have been evacuated before sampling.

Tubing (type: Disposable). (new) or ~~previously used~~) was used to purge well

Sampling method: X Disposable bailer ____ Sampling port

Samples collected 2 VOA's - BTEX, TPHg / 2VOA's - MTBE Sample appearance Clear

Note any sampling problems ____

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
		-RAIN-			

Comments: 7gal

Transportation (thermal preservation) COOLER & ICE

Form completed by: MWM Sampled by: MWM

SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# MW-9 Project Name: BEACON 721 Project No. D093-936

Location (address) 44 LEWELLING BLVD. SAN LORENZO, CA

Date Sampled: 5 / 28 / 98 Time: _____

Wellhead assembly condition: _____ Good _____ Fair _____ Poor (If poor, see comments)

Equipment Replaced: _____ bolts _____ locks _____ locking cap

Well Depth 23.80 ft below top of casing Casing diameter 2 inches

Depth to water (below top of casing) 15.28 ft. Date: 5 / 26 / 98 Time 1023

Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"

Purging method: _____ Submersible pump _____ Bailer X Centrifugal pump _____ Other _____

At least 4 well volumes have been evacuated before sampling.

Tubing (type: Disposable). (new or ~~previously used~~) was used to purge well

Sampling method: _____ Disposable bailer _____ Sampling port

Samples collected 2 VOA's - BTEX, TPHg / 2 VOA's - MTBE Sample appearance _____

Note any sampling problems _____

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
		-RAIN-			

Comments: Cov. on top of well ... legal

Transportation (thermal preservation) COOLER & ICE

Form completed by: MWM Sampled by: MWM

SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

ample ID# MW-10 Project Name: BEACON 721 Project No. D093-936

ocation (address) 44 LEWELLING BLVD. SAN LORENZO, CA

ate Sampled: 5 / 28 / 98 Time: 0857

Vellhead assembly condition: X Good ____ Fair ____ Poor (If poor, see comments)

quipment Replaced: ____ bolts ____ locks ____ locking cap

Vell Depth 29.50 ft below top of casing Casing diameter 2 inches

epth to water (below top of casing) 12.97 ft. Date: 5 / 26 / 98 Time 1006

Vell Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"

urging method: ____ Submersible pump ____ Bailer X Centrifugal pump ____ Other ____

t least 4 well volumes have been evacuated before sampling.

ubing (type: Disposable). (new) or ~~previously used~~) was used to purge well

ampling method: X Disposable bailer ____ Sampling port

amples collected 2 VOA's - BTEX; TPH$_g$ / 2 VOA's - MTBE Sample appearance Clear

ote any sampling problems ____

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
		-RAIN-			
					11 gal

omments: ____

ansportation (thermal preservation) COOLER & ICE

rm completed by: MWM Sampled by: MWM

SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# MW-11 Project Name: BEACON 721 Project No. D093-936

Location (address) 44 LEWELLING BLVD. SAN LORENZO, CA

Date Sampled: 5 / 28 / 98 Time: 0838

Wellhead assembly condition: X Good ____ Fair ____ Poor (If poor, see comments)

Equipment Replaced: ____ bolts ____ locks ____ locking cap

Well Depth 29.50 ft below top of casing Casing diameter 2 inches

Depth to water (below top of casing) 16.25 ft. Date: 5 / 26 / 98 Time 1000

Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"

Purging method: ____ Submersible pump ____ Bailer X Centrifugal pump ____ Other ____

At least 4 well volumes have been evacuated before sampling.

Tubing (type: Disposable). (new) ~~or previously used~~ was used to purge well

Sampling method: X Disposable bailer ____ Sampling port

Samples collected 2 VOA's - BTEX, TPH-g / 2 VOA's - MTBE Sample appearance Clear

Note any sampling problems ____

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
		+ RAIN -			
					9 gal

Comments: ____

Transportation (thermal preservation) COOLER & ICE

Form completed by: MWM Sampled by: MWM

SAMPLING INFORMATION SHEET

Delta Environmental Consultants, Inc.

Sample ID# RW-1 Project Name: BEACON 721 Project No. D093-936

Location (address) 44 LEWELLING BLVD. SAN LORENZO, CA

Date Sampled: 5/28/98 Time: 1231

Wellhead assembly condition: X Good ____ Fair ____ Poor (If poor, see comments)

Equipment Replaced: ____ bolts ____ locks ____ locking cap

Well Depth 29.50 ft below top of casing Casing diameter 6 inches

Depth to water (below top of casing) 13.13 ft. Date: 5/26/98 Time 1050

Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"

Purging method: ____ Submersible pump ____ Bailer X Centrifugal pump ____ Other ____

At least 4 well volumes have been evacuated before sampling.

Tubing (type: Disposable). (new) or ~~previously used~~) was used to purge well

Sampling method: X Disposable bailer ____ Sampling port

Samples collected 4 VOA's for BTEX; TPHg; MTBE Sample appearance Clear

Note any sampling problems ____

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (umhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
		-RAIN-			
					96 gal

Comments: ____

Transportation (thermal preservation) COOLER + ICE

Form completed by: MWM Sampled by: MWM

ENCLOSURE C

Ground Water Sample Laboratory Report

KIFF ANALYTICAL LLC

Report Number : 11658
Date : 06/09/98

Richard Munsch
Delta Environmental Consultants, Inc.
3164 Gold Camp Drive, Suite 200
Rancho Cordova, CA 95670

Subject : 11 Water Samples
Project Name : Beacon 721
Project Number : D093-936

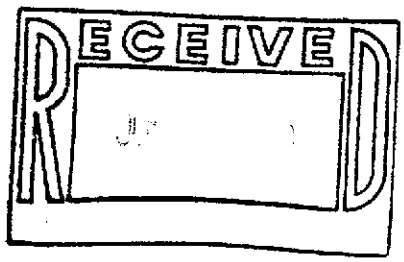
Dear Mr. Munsch,

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

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

Sincerely,

Joel Kiff



KIFF ANALYTICAL LLC

Report Number : 11658
Date : 06/09/98

Subject : 11 Water Samples
Project Name : Beacon 721
Project Number : D093-936

Case Narrative

The quantitation of TPH as Gasoline for sample MW-2 does not include the compound Methyl-t-butyl ether.

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800

KIFF ANALYTICAL LLC

Report Number : 11658
Date : 06/09/98

Project Name : **Beacon 721**
Project Number : **D093-936**

Sample : **MW-1** Matrix : Water
Sample Date :05/28/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**120**	10	ug/L	EPA 8020	06/03/98
Toluene	**< 10**	10	ug/L	EPA 8020	06/03/98
Ethylbenzene	**39**	10	ug/L	EPA 8020	06/03/98
Total Xylenes	**55**	10	ug/L	EPA 8020	06/03/98
Methyl-t-butyl ether	**9300**	100	ug/L	EPA 8020	06/03/98
TPH as Gasoline	**7800**	1000	ug/L	M EPA 8015	06/03/98
aaa-Trifluorotoluene (8020 Surrogate)	102		% Recovery	EPA 8020	06/03/98
aaa-Trifluorotoluene (Gasoline Surrogate)	87.2		% Recovery	M EPA 8015	06/03/98

Sample : **MW-2** Matrix : Water
Sample Date :05/28/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 500**	500	ug/L	EPA 8260B	06/09/98
Toluene	**< 500**	500	ug/L	EPA 8260B	06/09/98
Ethylbenzene	**< 500**	500	ug/L	EPA 8260B	06/09/98
Total Xylenes	**< 500**	500	ug/L	EPA 8260B	06/09/98
Methyl-t-butyl ether	**97000**	5000	ug/L	EPA 8260B	06/09/98
TPH as Gasoline	**< 50000**	50000	ug/L	EPA 8260B	06/09/98
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	06/09/98
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	06/09/98

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800

KIFF ANALYTICAL LLC

Report Number : 11658
Date : 06/09/98

Project Name : **Beacon 721**
Project Number : **D093-936**

Sample : **MW-3** Matrix : Water
Sample Date :05/28/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1500**	5.0	ug/L	EPA 8020	06/02/98
Toluene	**400**	5.0	ug/L	EPA 8020	06/02/98
Ethylbenzene	**280**	5.0	ug/L	EPA 8020	06/02/98
Total Xylenes	**870**	5.0	ug/L	EPA 8020	06/02/98
Methyl-t-butyl ether	**480**	50	ug/L	EPA 8020	06/02/98
TPH as Gasoline	**6500**	500	ug/L	M EPA 8015	06/02/98
aaa-Trifluorotoluene (8020 Surrogate)	94.2		% Recovery	EPA 8020	06/02/98
aaa-Trifluorotoluene (Gasoline Surrogate)	90.1		% Recovery	M EPA 8015	06/02/98

Sample : **MW-4** Matrix : Water
Sample Date :05/28/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/98
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/98
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/98
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	06/04/98
Methyl-t-butyl ether	**< 5.0**	5.0	ug/L	EPA 8260B	06/04/98
TPH as Gasoline	**94**	50	ug/L	EPA 8260B	06/04/98
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	06/04/98
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	06/04/98

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800

KIFF ANALYTICAL LLC

Report Number : 11658

Date : 06/09/98

Project Name : **Beacon 721**

Project Number : **D093-936**

Sample : **MW-5** Matrix : Water

Sample Date :05/28/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8020	06/02/98
Toluene	**< 0.50**	0.50	ug/L	EPA 8020	06/02/98
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8020	06/02/98
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8020	06/02/98
Methyl-t-butyl ether	**< 5.0**	5.0	ug/L	EPA 8020	06/02/98
TPH as Gasoline	**< 50**	50	ug/L	M EPA 8015	06/02/98
aaa-Trifluorotoluene (8020 Surrogate)	93.9		% Recovery	EPA 8020	06/02/98
aaa-Trifluorotoluene (Gasoline Surrogate)	84.7		% Recovery	M EPA 8015	06/02/98

Sample : **MW-6** Matrix : Water

Sample Date :05/28/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8020	06/02/98
Toluene	**< 0.50**	0.50	ug/L	EPA 8020	06/02/98
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8020	06/02/98
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8020	06/02/98
Methyl-t-butyl ether	**< 5.0**	5.0	ug/L	EPA 8020	06/02/98
TPH as Gasoline	**< 50**	50	ug/L	M EPA 8015	06/02/98
aaa-Trifluorotoluene (8020 Surrogate)	96.6		% Recovery	EPA 8020	06/02/98
aaa-Trifluorotoluene (Gasoline Surrogate)	85.8		% Recovery	M EPA 8015	06/02/98

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800

KIFF ANALYTICAL LLC

Report Number : 11658
Date : 06/09/98

Project Name : **Beacon 721**
Project Number : **D093-936**

Sample : **MW-7** Matrix : Water
Sample Date :05/28/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8020	06/02/98
Toluene	**< 0.50**	0.50	ug/L	EPA 8020	06/02/98
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8020	06/02/98
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8020	06/02/98
Methyl-t-butyl ether	**9.8**	5.0	ug/L	EPA 8020	06/02/98
TPH as Gasoline	**< 50**	50	ug/L	M EPA 8015	06/02/98
aaa-Trifluorotoluene (8020 Surrogate)	99.2		% Recovery	EPA 8020	06/02/98
aaa-Trifluorotoluene (Gasoline Surrogate)	85.7		% Recovery	M EPA 8015	06/02/98

Sample : **MW-8** Matrix : Water
Sample Date :05/28/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8020	06/02/98
Toluene	**< 0.50**	0.50	ug/L	EPA 8020	06/02/98
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8020	06/02/98
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8020	06/02/98
Methyl-t-butyl ether	**< 5.0**	5.0	ug/L	EPA 8020	06/02/98
TPH as Gasoline	**< 50**	50	ug/L	M EPA 8015	06/02/98
aaa-Trifluorotoluene (8020 Surrogate)	99.6		% Recovery	EPA 8020	06/02/98
aaa-Trifluorotoluene (Gasoline Surrogate)	85.2		% Recovery	M EPA 8015	06/02/98

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800

KIFF ANALYTICAL LLC

Report Number : 11658
Date : 06/09/98

Project Name : **Beacon 721**
Project Number : **D093-936**

Sample : **MW-10** Matrix : Water
Sample Date :05/28/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**76**	10	ug/L	EPA 8020	06/03/98
Toluene	**200**	10	ug/L	EPA 8020	06/03/98
Ethylbenzene	**1600**	10	ug/L	EPA 8020	06/03/98
Total Xylenes	**3900**	10	ug/L	EPA 8020	06/03/98
Methyl-t-butyl ether	**190**	100	ug/L	EPA 8020	06/03/98
TPH as Gasoline	**16000**	1000	ug/L	M EPA 8015	06/03/98
aaa-Trifluorotoluene (8020 Surrogate)	91.7		% Recovery	EPA 8020	06/03/98
aaa-Trifluorotoluene (Gasoline Surrogate)	89.6		% Recovery	M EPA 8015	06/03/98

Sample : **MW-11** Matrix : Water
Sample Date :05/28/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**14**	0.50	ug/L	EPA 8020	06/02/98
Toluene	**24**	0.50	ug/L	EPA 8020	06/02/98
Ethylbenzene	**88**	0.50	ug/L	EPA 8020	06/02/98
Total Xylenes	**75**	0.50	ug/L	EPA 8020	06/02/98
Methyl-t-butyl ether	**24**	5.0	ug/L	EPA 8020	06/02/98
TPH as Gasoline	**1100**	50	ug/L	M EPA 8015	06/02/98
aaa-Trifluorotoluene (8020 Surrogate)	76.1		% Recovery	EPA 8020	06/02/98
aaa-Trifluorotoluene (Gasoline Surrogate)	98.9		% Recovery	M EPA 8015	06/02/98

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800

KIFF ANALYTICAL LLC

Report Number : 11658
Date : 06/09/98

Project Name : **Beacon 721**
Project Number : **D093-936**

Sample : **RW-1** Matrix : Water
Sample Date :05/28/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**830**	25	ug/L	EPA 8020	06/06/98
Toluene	**210**	25	ug/L	EPA 8020	06/06/98
Ethylbenzene	**170**	25	ug/L	EPA 8020	06/06/98
Total Xylenes	**720**	25	ug/L	EPA 8020	06/06/98
Methyl-t-butyl ether	**14000**	250	ug/L	EPA 8020	06/06/98
TPH as Gasoline	**17000**	2500	ug/L	M EPA 8015	06/06/98
aaa-Trifluorotoluene (8020 Surrogate)	102		% Recovery	EPA 8020	06/06/98
aaa-Trifluorotoluene (Gasoline Surrogate)	94.3		% Recovery	M EPA 8015	06/06/98

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800

Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

11658

Beacon Station No.	Sampler (Print Name)			ANALYSES									Date	Form No.
721	Martin Morgan												5/28/98	1 of 2
Project No.	Sampler (Signature)												Riff Lab	
D093-936													530 297 4800	
Project Location	Affiliation													
San Lorenzo, CA	Delta Env. Cons.												Standard TAT	
Sample No./Identification	Date	Time	Lab No.	BTEX	TPH (gasoline)	TPH (diesel)	MTBE					No. of Containers	REMARKS	
MW-1	5/28/98	1120	-01	X	X		X					4		
MW-2		1040	-02	X	X		X					4		
MW-3		1140	-03	X	X		X					4		
MW-4		1100	-04	X	X		X					4		
MW-5		1015	-05	X	X		X					4		
MW-6		0955	-06	X	X		X					4		
MW-7		0935	-07	X	X		X					4		
MW-8	5/28/98	0915	-08	X	X		X					4		

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Delta	5/28/98	1430			
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
			k.ff	5/28/98	1430

Report To: Richard Munsch

960 638 2164

Bill to: ULTRAMAR INC.
525 West Third Street
Hanford, CA 93230
Attention: Terry Fox

WHITE: Return to Client with Report YELLOW: Laboratory Copy PINK: Originator Copy

32-8003 1/90

Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

11658

Beacon Station No.	Sampler (Print Name)			ANALYSES									Date	Form No.
721	Martin Morgan												5/28/98	2 of 2
Project No.	Sampler (Signature)												Kiff Lab	
D093-936													530 297 4800	
Project Location	Affiliation													
San Lorenzo, CA	Delta Env. Cons.												Standard TAT	
Sample No./Identification	Date	Time	Lab No.	BTEX	TPH (gasoline)	TPH (diesel)	MTBE					No. of Containers	REMARKS	
~~MW-9~~	~~5/28/98~~			X	X		X					4	NOT SAMPLED	
MW-10		0857	-09	X	X		X					4		
MW-11		0838	-10	X	X		X					4		
RW-1	5/28/98	1231	-11 ~~-03~~	X	X		X					4		

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Delta	5/28/98	1430			
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
			Kiff	5/28/98	1430

Report To: Richard Munsch

916 638 2164

Bill to: ULTRAMAR INC.
525 West Third Street
Hanford, CA 93230
Attention: Terry Fox

WHITE: Return to Client with Report YELLOW: Laboratory Copy PINK: Originator Copy

32-8003 1/90