

Ultramar

**ALCO
HAZMAT**

Ultramar Inc.
P.O. Box 466
525 W. Third Street
Hanford, CA 93232-0466
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March 29, 1994

**Ms. Juliet Shin
Hazardous Materials Program
Department of Environmental Health
Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, CA 94612**

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

Dear Ms. Shin:

Enclosed is a copy of the ground-water monitoring report for the first quarter 1994 for the above-referenced Ultramar facility. Also included is a copy of the Quarterly Status Report which describes the work completed this quarter and the work anticipated to be completed next quarter.

Due to equipment malfunctions and delays in having the natural gas line installed by the utility company, the vapor extraction system has not begun operation. The new equipment has been ordered and it is anticipated that the vapor extraction portion should begin operation before mid April.

Please call 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. Steven Ritchie, San Francisco Bay Region, RWQCB



A Member of the Ultramar Group of Companies

BEACON
#1 Quality and Service

Ultramar

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ENVIRONMENTAL PROJECT QUARTERLY STATUS REPORT

DATE REPORT SUBMITTED: March 29, 1994
QUARTER ENDING: March 31, 1994

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.



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SUMMARY OF THIS QUARTER'S ACTIVITIES:

Performed quarterly monitoring on September 22, 1993.
Continued to operate the ground-water extraction system.
Completed installation of vapor extraction system.

RESULT OF QUARTERLY MONITORING:

Monitoring data indicates that free product was not detected in any well this quarter. Benzene concentrations remained not detected in wells MW-2, MW-4, MW-8, MW-9, and MW-11. The benzene concentration decreased in MW-1 from 3,000 ppb to 2,400 ppb, in MW-5 from 0.66 ppb to not detected, in MW-6 from 2.2 ppb to not detected, in MW-7 from 71 ppb to 61 ppb, and in RW-1 from 800 ppb to 33 ppb. The benzene concentration increased in MW-3 from 12,000 ppb to 14,000 ppb. MW-10 was inaccessible this quarter and was not sampled.

As of January 24, 1994, approximately 1,242,108 gallons of ground water have been removed, treated, and discharged.

PROPOSED ACTIVITY OR WORK FOR NEXT QUARTER:

<u>ACTIVITY</u>	<u>ESTIMATED COMPLETION DATE</u>
Continue quarterly ground-water monitoring.	Ongoing
Continue operation of ground-water remediation system.	Ongoing
Begin operation of vapor extraction system.	April 7, 1994



*Received April 7 '94
fjs*

3330 Data Drive
Suite 100
Rancho Cordova, CA 95670
916/638-2085
FAX: 916/638-8385

March 22, 1994

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

Subject: *Quarterly Ground Water Monitoring Report, First Quarter 1994,
and Status of Remediation System, through January, 1994*
Beacon Station No. 721
44 Lewelling Boulevard
San Lorenzo, California
Delta Project No. 40-93-936

Dear Mr. Fox:

Delta Environmental Consultants, Inc. (Delta), has been authorized by Ultramar Inc. to conduct quarterly monitoring at the above-referenced site. The monitoring is intended to evaluate the presence and concentration of petroleum hydrocarbon constituents in ground water in the vicinity of the subject site and evaluate the effectiveness of the remediation system currently in operation. This letter report summarizes the results of ground water monitoring and sampling activities performed at the site on January 24, 1993, and the remediation system status through January 1994. The site location is shown in Figure 1, and site features are illustrated in Figure 2.

Quarterly ground water monitoring conducted on January 24, 1994, included measurement of depth to water in six on-site monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6), five off-site monitoring wells (MW-7, MW-8, MW-9, and MW-11), and one ground water recovery well (RW-1), subjective analyses of water samples to evaluate the presence of free petroleum product or product sheen in the monitoring wells, and collection of ground water samples for chemical analysis. Monitoring well MW-10 was not sampled because it had been covered with new asphalt. Methods used in the performance of these tasks are described in Enclosure A.

Water Table Elevation Measurements, Flow Direction, and Hydraulic Gradient

Depth to ground water in the monitoring wells was measured on January 24, 1994. Depth to ground water ranged from 16.07 (MW-7) to 19.79 (MW-11) feet below the top of well casings. The water table elevation measurements indicate an inferred direction of ground water flow beneath the site towards the west with recovery well RW-1 affecting the water level locally due to pumping activities discussed later in this report. Ground water table measurements recorded at the site on January 24, 1994, are compiled in Table 1, along with measurements recorded since February 1992. A water table contour map prepared from the January 1994 data is included as Figure 3.

Mr. Terrence A. Fox

Ultramar Inc.

March 22, 1994

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Free Petroleum Product or Product Sheen

The presence of separate phase petroleum product or product sheen in the monitoring wells was evaluated using procedures described in Enclosure A. On January 24, 1994, separate phase petroleum product or product sheen was not observed in any of the wells associated with the site (Table 1).

Ground Water Analytical Results

Ground water samples were collected from monitoring wells MW-1 through MW-9, MW-11, and ground water recovery well RW-1 on January 24, 1994. Sampling procedures are described in Enclosure A, and copies of the sampling information data sheets are included in Enclosure B.

The ground water samples were submitted for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons (TPH) as gasoline. Analytical results indicate no detectable TPH as gasoline or BTEX concentrations in monitoring wells MW-5, and MW-9. Benzene was not detected in monitoring wells MW-2, MW-4, MW-5, MW-6, MW-8, MW-9, and MW-11. Detectable benzene concentrations ranged from 33 parts per billion (ppb) (RW-1) to 14,000 ppb (MW-3). A comparison of the analytical results for the samples collected in September 1993 and January 1994 indicate that the benzene concentrations decreased in MW-1 (3,000 to 2,400 ppb), MW-5 (0.66 to < 0.5 ppb), MW-6 (2.2 to < 0.5 ppb), MW-7 (71 to 61 ppb), and RW-1 (800 to 33 ppb), and increased in MW-3 (12,000 to 14,000 ppb). Results of the chemical analyses for the January 24, 1994, sampling event are summarized in Table 2, and copies of the certified analytical reports are included in Enclosure C. A benzene isoconcentration contour map is included as Figure 4.

Status of Remediation System

Delta was authorized to perform operation and maintenance on the ground water remediation system at the site in April 1993. The system pumps ground water from recovery well RW-1 and is designed to remove petroleum hydrocarbon constituents through treatment in an air stripper. Treated ground water is discharged to the Oro Loma Sanitary District.

The ground water treatment system was not operational during the period of August 14, 1993, through September 21, 1993, while the air stripper tower packing was replaced. The ground water treatment system was restarted on September 22, 1993.

The volume of ground water treated by the remediation system through January 24, 1994, is 1,242,108 gallons, shown in Table 3.

Numerous attempts to start the soil vapor extraction system have been made, but due to mechanical failure the system is not operational.

Remediation System Analytical Results

In order to evaluate the effectiveness of the remediation system, water samples were collected at the sewer discharge location. Water samples were collected on January 24, 1994, and were submitted for analysis of BTEX and TPH as gasoline. Analytical results indicate that BTEX and TPH as gasoline concentrations were below the allowable discharge concentrations for the Oro Loma Sanitary

Mr. Terrence A. Fox
Ultramar Inc.
March 22, 1994
Page 3

Sewer District. Results of the chemical analysis are summarized in Table 4, and copies of certified analytical reports are included in Enclosure D.

Future Work

Delta will continue to monitor the operation of the remediation system and will perform monthly sampling of the remediation system effluent. The soil vapor extraction system will begin operation in March 1994. The next quarterly sampling of ground water monitoring wells is scheduled for April 1994.

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 copies of this letter report be forwarded to:

Mr. Steven Ritchie
California Regional Water Quality Control Board,
Region 2
2101 Webster Street
Oakland, California 94612

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

If you have any questions, please call me at (916) 638-2085.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Paul V. Zianno

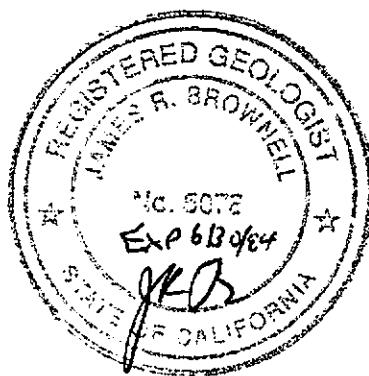
Paul V. Zianno
Project Hydrogeologist

JR Brownell, P.G.

Todd M. Galati
Project Manager

James R. Brownell

James R. Brownell, R.G.
California Registered Geologist No. 5078



cc: Mr. Jon Black, Delta Environmental Consultants, Inc. - Sacramento

PVZ (LRP335.TA)
Enclosures

TABLE 1
GROUND WATER ELEVATIONS

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

<u>Monitoring Well</u>	<u>Date</u>	<u>Top of Riser Elevation (ft)*</u>	<u>Depth to Water (ft)</u>	<u>Ground Water Elevation (ft)</u>	<u>Physical Observation of Free Product or Sheen</u>
MW-1	02/18/92	43.67	16.42	27.25	
	05/14/92		17.28	26.39	
	08/27/92		19.48	24.19	
	11/19/92		20.57	23.10	
	02/03/93		15.91	27.76	
	06/23/93		16.21	27.46	No free product or sheen
	09/22/93		17.85	25.82	No free product or sheen
	01/24/94		17.91	25.76	
MW-2	02/18/92	43.09	16.65	26.44	
	05/14/92		16.64	26.45	
	08/27/92		16.61	26.28	
	11/19/92		19.91	23.18	
	02/03/93		15.23	27.86	
	06/23/93		15.55	27.54	No free product or sheen
	09/22/93		17.22	25.87	No free product or sheen
	01/24/94		17.20	25.89	
MW-3	02/18/92	43.10	16.89	26.21	
	05/14/92		16.60	26.50	
	08/27/92		18.96	24.14	
	11/18/92		20.38	23.01*	
	02/03/93		15.43	27.67*	
	06/23/93		15.67	27.43	Product sheen
	09/22/93		17.20	25.90	No free product or sheen
	01/24/94		17.35	25.75	
MW-4	02/18/92	44.66	18.51	26.15	
	05/14/92		18.22	26.44	
	08/27/92		20.47	24.19	
	11/19/92		21.58	23.08	
	02/03/93		16.98	27.68	
	06/23/93		17.23	27.43	No free product or sheen
	09/22/93		18.83	25.83	No free product or sheen
	01/24/94		18.86	25.80	
MW-5	02/18/92	43.79	17.37	26.42	
	05/14/92		17.29	26.50	
	08/27/92		22.18	21.61	
	11/19/92		20.68	23.11	
	02/03/93		15.91	27.88	
	06/23/93		16.24	27.55	No free product or sheen
	09/22/93		17.93	25.86	No free product or sheen
	01/24/94		17.82	25.97	

TABLE 1-Continued

GROUND WATER ELEVATIONS

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

<u>Monitoring Well</u>	<u>Date</u>	<u>Top of Riser Elevation (ft)*</u>	<u>Depth to Water (ft)</u>	<u>Ground Water Elevation (ft)</u>	<u>Physical Observation of Free Product or Sheen</u>
MW-6	02/18/92	42.47	15.87	26.60	
	05/14/92		16.04	26.43	
	08/27/92		18.17	24.30	
	11/19/92		19.30	23.17	
	02/03/93		14.60	27.87	
	06/23/93		15.00	27.47	No free product or sheen
	09/22/93		16.66	25.81	No free product or sheen
	01/24/94		16.52	25.95	
MW-7	02/18/92	41.54	15.51	26.03	
	05/14/92		15.41	26.13	
	08/27/92		17.45	24.09	
	11/19/92		18.54	23.00	
	02/03/93		14.10	27.44	
	06/23/93		14.33	27.21	No free product or sheen
	09/22/93		15.92	25.62	No free product or sheen
	01/24/94		16.07	25.47	
MW-8	02/18/92	42.26	16.57	25.69	
	05/14/92		16.24	26.02	
	08/27/92		18.28	23.98	
	11/19/92		19.32	22.94	
	02/03/93		14.87	27.39	
	06/23/93		15.18	27.08	No free product or sheen
	09/22/93		18.79	23.47	No free product or sheen
	01/24/94		17.06	25.20	
MW-9	02/18/92	44.94	18.87	26.07	
	05/14/92		18.55	26.39	
	08/27/92		20.80	24.14	
	11/19/92		21.90	23.04	
	02/03/93		17.25	27.69	
	06/23/93		17.61	27.33	No free product or sheen
	09/22/93		19.18	25.76	No free product or sheen
	01/24/94		19.17	25.77	
MW-10	02/18/92	42.34	16.63	25.71	
	05/14/92		15.25	27.09	
	08/27/92		18.35	23.99	
	11/19/92		19.43	22.91	
	02/03/93		15.01	27.33	
	06/23/93		15.30	27.04	No free product or sheen
	09/22/93		16.90	25.44	No free product or sheen
	01/24/94		NM	NM	

TABLE 1-Continued

GROUND WATER ELEVATIONS

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

<u>Monitoring Well</u>	<u>Date</u>	<u>Top of Riser Elevation (ft)*</u>	<u>Depth to Water (ft)</u>	<u>Ground Water Elevation (ft)</u>	<u>Physical Observation of Free Product or Sheen</u>
MW-11	02/18/92	45.00	17.00	28.00	
	05/14/92		19.02	25.98	
	08/27/92		21.13	23.87	
	11/19/92		17.91	27.09	
	02/03/92		17.91	27.09	
	06/23/93		18.14	26.86	No free product or sheen
	09/22/93		19.63	25.37	No free product or sheen
	01/24/94		19.79	25.21	
RW-1	05/14/92	43.17	16.88	26.29	
	08/27/92		19.05	24.12	
	11/19/92		21.11	22.07*	
	02/03/92		15.48	27.69	
	06/23/93		28.25	14.92	No free product or sheen
	09/22/93		17.83	25.34	No free product or sheen
	01/24/94		24.00	19.17	

* All top of riser elevations surveyed by Aegis Environmental.

NM = Not Measured.

Note: Aegis Environmental, Inc., collected data prior to 06/23/93.

TABLE 2
GROUND WATER SAMPLE ANALYTICAL RESULTS
Concentrations in parts per billion (ppb)

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

<u>Monitoring Well</u>	<u>Date Sampled</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>	<u>TPHg^a</u>
MW-1	02/18/92	—	—	—	—	—
	05/15/92	2,000	47	1,200	400	41,000
	08/28/92	3,800	54	850	970	110,000
	11/19/92	200	<5.0	90	140	3,600
	02/03/93	180	22	79	130	3,000
	06/23/93	2,400	74	650	510	12,000
	09/22/93	3,000	290	1,100	1,200	23,000
	01/24/94	2,400	280	1,100	1,700	18,000
MW-2	02/18/92	<0.5	<0.5	1.9	<0.5	1,600
	05/14/92	1.2	1.0	1.3	<0.5	740
	08/27/92	6.5	1.1	0.6	<0.5	1,400
	11/19/92	<0.5	<0.5	2.7	<0.5	360
	02/03/93	1.2	1.6	4.5	6.4	590
	06/23/93	<0.5	<0.5	0.52	0.50	160
	09/22/93	<0.5	0.59	1.2	0.59	290
	01/24/94	<0.5	<0.5	0.68	<0.5	330
MW-3	02/18/92	—	—	—	—	—
	05/15/92	6,300	5,900	1,700	6,100	160,000
	08/28/92	25,000	40,000	6,700	44,000	1,300,000
	11/19/92	—	—	—	—	—
	02/03/93	7,200	11,000	2,900	13,000	82,000
	06/23/93	3,200	5,300	2,500	9,100	61,000
	09/22/93	12,000	14,000	3,900	18,000	94,000
	01/24/94	14,000	17,000	4,200	14,000	110,000
MW-4	02/18/92	<0.5	<0.5	12	21	5,100
	05/14/92	<0.5	5.6	1.8	2.2	4,600
	08/27/92	6.6	1.3	1.6	3.1	1,700
	11/19/92	<0.5	<0.5	<0.5	<0.5	400
	02/03/93	<0.5	<0.5	<0.5	<0.5	1,100
	06/23/93	<0.5	<0.5	<0.5	<0.5	120
	09/22/93	<0.5	<0.5	<0.5	<0.5	110
	01/24/94	<0.5	<0.5	<0.5	<0.5	260
MW-5	02/18/92	<0.5	<0.5	<0.5	<0.5	<50
	05/14/92	<0.5	<0.05	<0.5	<0.5	<50
	08/27/92	<0.5	<0.5	<0.5	<0.5	<50
	11/19/92	<0.5	<0.5	<0.5	<0.5	<50
	02/03/93	3.0	2.7	8.0	9.9	55
	06/23/93	<0.5	<0.5	<0.5	<0.5	<50
	09/22/93	0.66	1.1	<0.5	0.6	<50
	01/24/94	<0.5	<0.5	<0.5	<0.5	<50

TABLE 2-Continued

ANALYTICAL RESULTS OF GROUND WATER SAMPLES
 Concentrations in parts per billion (ppb)

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

<u>Monitoring Well</u>	<u>Date Sampled</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>	<u>TPHg^a</u>
MW-6	02/18/92	4.8	<0.5	<0.5	<0.5	370
	05/14/92	<0.5	<0.5	<0.5	<0.5	120
	08/27/92	1.2	<0.5	<0.5	<0.5	<50
	11/19/92	1.3	<0.5	1.0	1.1	66
	02/03/93	1.9	2.6	23	12	100
	06/23/93	<0.5	<0.5	<0.5	<0.5	<50
	09/22/93	2.2	3.8	0.53	2.7	81
MW-7	01/24/94	<0.5	<0.5	<0.5	<0.5	98
	02/18/92	16	<0.5	10	16	670
	05/14/92	44	<0.5	38	88	1,500
	08/27/92	400	5.8	290	1,400	23,000
	11/19/92	29	<0.5	10	53	330
	02/03/93	200	<0.5	110	480	2,000
	06/23/93	20	<0.5	16	16	280
MW-8	09/22/93	71	2.2	33	210	860
	01/24/94	61	<1.3	10	160	900
	02/18/92	<0.5	<0.5	9.5	<0.5	1,200
	05/14/92	<0.5	<0.5	<0.5	<0.5	130
	08/28/92	<0.5	<0.5	<0.5	<0.5	140
	11/19/92	<0.5	<0.5	2.0	<0.5	320
	02/03/93	<0.5	<0.5	<0.5	<0.5	<50
MW-9	06/23/93	<0.5	<0.5	<0.5	<0.5	<50
	09/22/93	<0.5	0.67	<0.5	<0.5	<50
	01/24/94	<0.5	<0.5	<0.5	<0.5	290
	02/18/92	<0.5	<0.5	<0.5	<0.5	<50
	05/14/92	<0.5	<0.5	<0.5	<0.5	<50
	08/27/92	<0.5	<0.5	<0.5	<0.5	<50
	11/19/92	<0.5	<0.5	<0.5	1.3	<50
MW-10	02/03/93	<0.5	<0.5	<0.5	<0.5	<50
	06/23/93	<0.5	<0.5	<0.5	<0.5	<50
	09/22/93	<0.5	<0.5	<0.5	<0.5	<50
	01/24/94	<0.5	<0.5	<0.5	<0.5	<50
	02/18/92	110	57	440	53	18,000
	05/15/92	24	9.8	97	<0.5	8,500
	08/29/92	20	2.8	40	3.5	9,600
	11/19/92	36	21	330	31	5,700
	02/03/93	15	4.6	36	9.6	2,200
	06/23/93	21	24	540	45	8,100
	09/22/93	22	17	350	16	6,200
	01/24/94	NS	NS	NS	NS	NS

TABLE 2-Continued

ANALYTICAL RESULTS OF GROUND WATER SAMPLES
 Concentrations in parts per billion (ppb)

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

<u>Monitoring Well</u>	<u>Date Sampled</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>	<u>TPHg*</u>
MW-11	02/18/92	<0.5	<0.5	<0.5	<0.5	2,400
	05/15/92	<0.5	1.9	1.3	0.7	1,600
	08/27/92	15	2	0.6	1.2	2,100
	11/19/92	<0.5	<0.5	<0.5	<0.5	490
	02/03/93	<0.5	<0.5	0.55	<0.5	500
	06/23/93	<0.5	<0.5	<0.5	<0.5	350
	09/22/93	<0.5	0.65	<0.5	0.71	200
	01/24/94	<0.5	<0.5	<0.5	<0.5	450
RW-1	05/15/92	270	62	29	140	790
	08/29/92	1,300	200	68	810	24,000
	11/19/92	—	—	—	—	—
	02/03/93	71	35	22	110	620
	06/23/93	30	33	9.8	35	220
	09/22/93	800	400	170	910	4,100
	01/24/94	33	6.0	6.9	23	190

* Total petroleum hydrocarbons as gasoline.

NS = Not Sampled.

Note: Aegis Environmental, Inc., collected data prior to 06/23/93.

TABLE 3
VOLUME OF GROUND WATER TREATED
by Remediation System

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

<u>Date</u>	<u>Volume^a (gallons)</u>
06/21/93	2,120
07/14/93	117,367
08/14/93	210,470
09/22/93	255,241
01/24/94	1,242,108

^a Cumulative volume of water discharged to sanitary sewer at the indicated date.

TABLE 4
ANALYTICAL RESULTS OF SYSTEM WATER SAMPLES

Concentrations in parts per billion (ppb)

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

<u>Sample</u>	<u>Date</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Total Xylenes</u>	<u>TPH^a as gasoline</u>
Effluent	05/28/93	<0.5	<0.5	<0.5	<0.5	<50
	10/01/93	<0.5	<0.5	<0.5	<0.5	<50
	01/24/94	<0.5	<0.5	<0.5	<0.5	<50

^a Total petroleum hydrocarbons as gasoline.



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



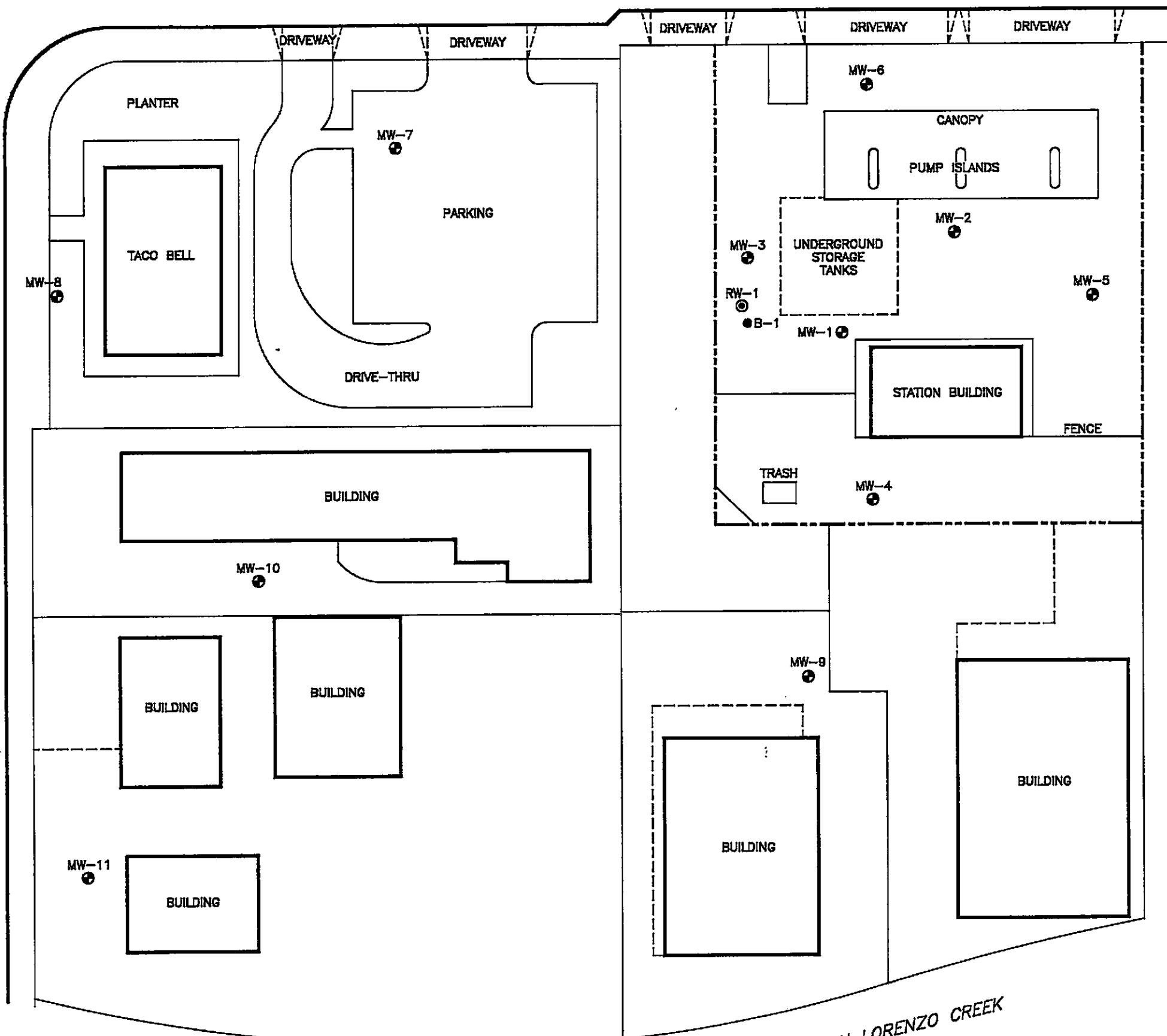
QUADRANGLE LOCATION

0 2000 FT
SCALE 1 : 24,000

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

LEWELLING BOULEVARD

VA GRANADA



LEGEND:

- B-1 SOIL BORING LOCATION
- ◎ RW-1 RECOVERY WELL LOCATION
- MW-1 MONITORING WELL LOCATION

NOTE:

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



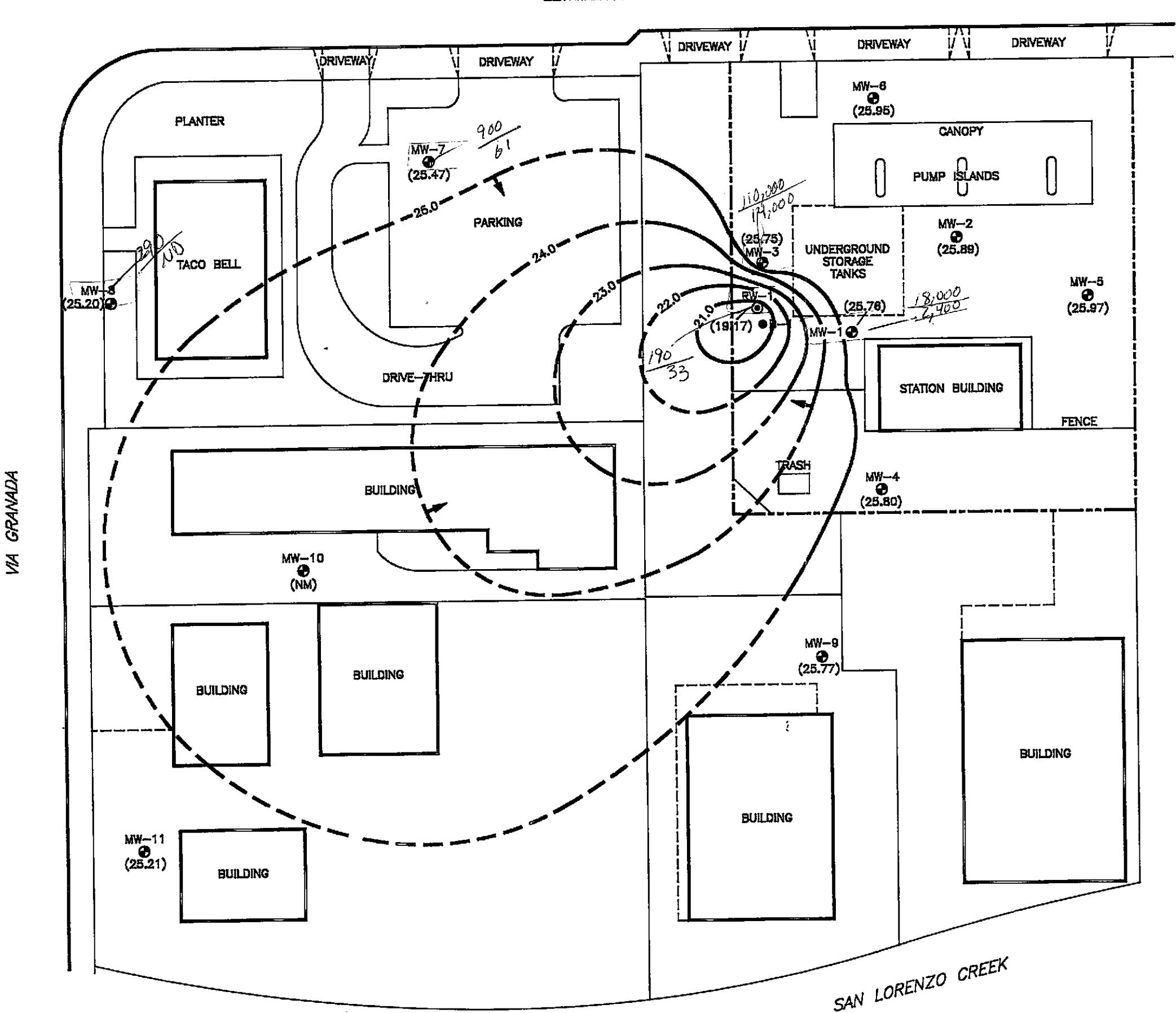
FIGURE 2
SITE VICINITY MAP

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

PROJECT NO. 40-93-938	DRAWN BY L.H. 8/11/83
FILE NO. 93-938-1	PREPARED BY JRB
REVISION NO. 1	REVIEWED BY JRB 8/11/93



LEWELLING BOULEVARD



North

- LEGEND:
- B-1 SOIL BORING LOCATION
 - RW-1 RECOVERY WELL LOCATION
 - MW-1 MONITORING WELL LOCATION
 - (25.78) GROUND WATER ELEVATION RELATIVE TO AN ASSUMED BENCH MARK
 - 25.0 — WATER TABLE CONTOUR RELATIVE TO AN ASSUMED BENCH MARK
 - ← GROUND WATER FLOW DIRECTION
 - NM NOT MEASURED

$\frac{\text{TPH}}{\text{B}}$ (ppb)

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



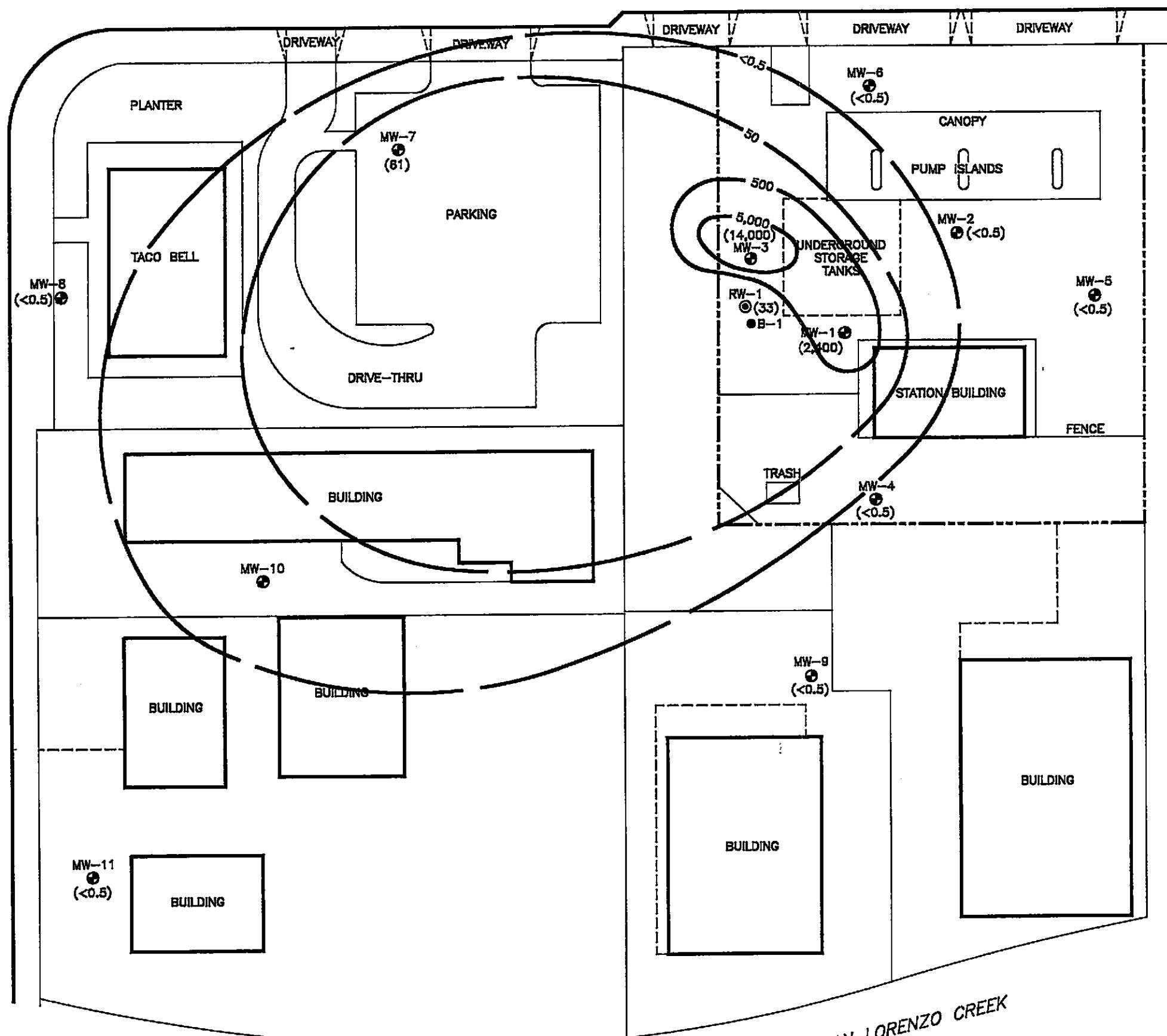
FIGURE 3
WATER TABLE CONTOUR MAP - 1/24/94
BEACON STATION NO. 721
44 LEWELLING BOULEVARD
SAN LORENZO, CA.

PROJECT NO. 40-83-838	DRAWN BY L.H. 3/3/94
FILE NO. 83-838-1	PREPARED BY PVZ
REVISION NO. 2	REVIEWED BY RBS 3/2/94

Delta Environmental Consultants, Inc.

LEWELLING BOULEVARD

VIA GRANADA



North

LEGEND:

- B-1 SOIL BORING LOCATION
- ◎ RW-1 RECOVERY WELL LOCATION
- MW-1 MONITORING WELL LOCATION
- (2,400) BENZENE CONCENTRATION IN PARTS PER BILLION
- 50 — BENZENE ISOCONCENTRATION CONTOUR IN PARTS PER BILLION

NOTE:

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



FIGURE 4
BENZENE ISOCONCENTRATION CONTOUR MAP
1/24/94
BEACON STATION NO. 721
44 LEWELLING BOULEVARD
SAN LORENZO, CA.

PROJECT NO. 40-93-938	DRAWN BY LH 2/18/94
FILE NO. 93-938-1	PREPARED BY PVZ
REVISION NO. 1	REVIEWED BY <i>XJZ 5/22/94</i>

Delta Environmental Consultants, Inc.

1.0 GROUND WATER AND FREE-FLOATING PRODUCT DEPTH DETERMINATION

A water/petroleum product interface probe was used to determine free product thickness and ground water depth in each well. If a free floating product layer was not detected by the interface probe, the tip of the probe was subjectively analyzed for product sheen or detectable odor. All measurements and physical observations were then recorded on separate data sheets in the field.

2.0 SUBJECTIVE ANALYSIS OF GROUND WATER

Prior to the purging of ground water monitoring wells, a water sample was collected from the monitoring well for subjective analysis. The sample was retrieved by gently lowering a clean disposable bailer approximately one-half the bailer length past the air/liquid interface. The bailer was then retrieved and the sample contained within the bailer was examined for floating product levels, appearance of a petroleum product sheen, and any detectable petroleum product odor.

3.0 MONITORING WELL DEVELOPMENT, PURGING, AND SAMPLING

Monitoring wells were purged and sampled using new disposable bailers. Ground water removed from the wells was stored in 55-gallon barrels at the site. The barrels were labeled with corresponding monitoring well numbers and date of purging. After pH, temperature, and purging, ground water levels were allowed to stabilize. Samples were collected in air-tight vials, appropriately labeled and stored on ice from the time of collection through the time of delivery to the laboratory. A chain-of-custody form was completed to ensure sample integrity. Ground water samples were transported to the laboratory and analyzed within the EPA-specified holding times for the requested analyses.

ENCLOSURE B

Field Sampling Data Sheets

SAMPLING INFORMATION SHEET

Weather Conditions

Cloud Cover _____

Temperature _____

Wind Speeds _____

GENERAL CONDITIONS

Sample ID MW-10

Project 40-93-936

Location Beacon 721

W.L. # _____

Sampling Point MW-10

Date Sampled 1, 24, 94

Time _____

Describe Sampling Point see site map

Well Depth 29.50 ft. below MP Casing diameter 2 inches

Depth to water (below MP) _____ ft. Date 1, 24, 94 Time _____

Discharge rate _____ gpm x 0.000000 = _____ cu.

At least 4 Well volumes have been evacuated before sampling.

Sampling Method Tee Submersible pump Bailer Other _____

Pump intake or bailed set at _____ ft. below MP

Tubing (type) disposable bailer L (ever or previously used) was used to collect all samples Yes No
and oil field measurements (Y Yes N Not). Tubing was used only for _____

Sample appearance _____

Note any sampling problems _____

Note any cleaning performed in the field _____

Samples collected 3 VOA's with HCl; BTEX, TPH gas

EVACUATION/STABILIZATION TEST DATA

Time	pH Units	Temperature Corrected Conductance (mhos/cm)	Temperature (°F)	Cumulative Water Level Volume of Water (feet) Recovered from Pumping Rate (gpm)		
				WL ft. ft. ft. ft. ft. ft.	WL ft. ft. ft. ft. ft. ft.	WL ft. ft. ft. ft. ft. ft.

Evacuation start time _____ WL _____

Evacuation stop time _____ WL _____

Comments _____

Transportation (check one) Cooler with ice

Form submitted by JWB, MWM Submitted by JWB, MWM

SAMPLING INFORMATION SHEET

Weather Conditions

Cloudy

60°F

Cloud Cover

~ 5 mph

Wind Speed

Temperature (Shaded preservation) cooler with ice

GENERAL CONDITIONS

Sample ID

MW-4

Project

40-93-936

Location

Beacon 721

W.L.

Sampling Point

MW-4

Date Sampled

1, 24, 94

Time 13:08

Describe Sampling Point

See Site Map

Well Depth

24.60

ft. below MP

Casing diameter

2

inches

Depth to water (below MP)

18.86

ft.

Date 1, 24, 94

Time 12:23

Discharge rate

gpm x 0.00222 =

ft.

At least 4

Well volumes have been evacuated before sampling.

Sampling Method

Tap

Submersible pump

Bailer

Other

Pump intake or bailed out at

ft. below MP

Tubing type disposable bailer 1 (new or previously used) was used to collect all samples Yes No and all field measurements 1 (Yes) Not. Tubing was used only for

Sample appearance clear

Note any sampling problems

Note any cleaning performed in the field

Samples collected 3 VOA's with HCl; BTEX, TPH gas

EVACUATION/STABILIZATION TEST DATA

Time	pH Units	Temperature Corrected Conductance (°C/millivolt)	Temperature (°F)	Conductive Water Level Volume of Water (Nearest 0.07 ft.)	
				Removed from Pumping Rate ft. ft. (gallons)	ft. (gallons)
		6.78	1416	68	2.0
		6.92	1344	68	2.5
		7.01	1340	68	3.0
					3.75

Ending start time 12:56

ml 18.86

Ending stop time 13:06

ml 19.23

Comments:

Transportation (shipped preserved)

cooler with ice

Form completed by:

JWB, MWM

checked by:

JWB, MWM

SAMPLING INFORMATION SHEET

Weather Conditions

Cloud Cover

cloudy

Temperature

60 °F

Wind Speed

~ 5 mph

GENERAL CONDITIONS

Sample ID

MW-5

Project

40-93-936

Location

Beacon 721

WL

Sampling Point

MW-5

Date Sampled

1, 24, 94

Time 13:38

Describe Sampling Point

See site map

Well Depth

29.20

ft below MPP

Casing diameter

2

inches

Depth to water (below MPP)

17.82

ft

Date

1, 24, 94

Time 12:11

Discharge rate

SPM x 0.00001 =

ft³/min

At least 4

Well volumes have been evacuated before sampling.

Sampling Method

Top

Submersible pump

Bottom

Other

Pump Intake or bottom set at

ft below MPP

Tubing (type) disposable bailer bailer (or previously used) was used to collect all samples Yes — No
and all field measurements (Yes — No. Tubing was used only for _____)

Sample occurrence

cloudy

Note any sampling problems

Note any cleaning performed in the field

slope

Samples collected

3 VOA's with HCl; BTEX, TPH gas

EVACUATION/STABILIZATION TEST DATA

Time	pH	Temperature Corrected Conductance (mhos/cm)	Temperature (°F)	Cumulative Water Level Volume of Water (Normal 0.01 gal) Recovered from Pumping Rate Well (gallon/min)	
				Recovered Volume 0.01 gal	Recovered Volume 0.01 gal
13:25	7.66	777	65	17.84	5.0
	7.14	797	66		
	7.10	797	66		7.5 gal

Evacuation start time

12:18

WL

17.82

Evacuation stop time

13:34

WL

17.99

purged w/ pump (dry after 5 gal); recharged to
+80°F. → continued purging with bailer

Temperature (bottom pressure)

cooler with ice

Form completed by

JNB, MWM

JNB, MWM

SAMPLING INFORMATION SHEET

Weather Conditions

Cloud Cover dark clouds

Temperature

60°F

Wind Source

10 mph

GENERAL CONDITIONS

Sample ID

MW-2

Project

40-93-936

Location

Beacon 721

W.L.

Sampling Point

MW-2

Date Sampled

1, 24, 94

Time 14:10

Descriptive Sampling Point

see site map

Well Depth

33.30

ft. below MP

Casing diameter

2

inches

Depth to water (below MP)

17.20

ft.

Date 1, 24, 94

Time 12:25

Discharge rate

50 ft³/min x 0.00222 =

cu. ft.

At least 4

Well volumes have been evacuated before sampling.

Sampling Method

Trip

Submersible pump

Boiler

Other

Pump location or boiler set at

5 ft. below MP

Tubing (type) disposable bailer

Liner (or previously used) was used to collect all samples Yes No

and all field measurements (Yes No). Tubing was used only for

Sample appearance cloudy

Note any sampling problems

Note any cleaning performed in the fluid slope

Samples collected 3 VOA's with HCl; BTEX, TPH gas

EVACUATION/STABILIZATION TEST DATA

Time	Oil Level	Temperature Corrected Conductance (mmhos/cm)	Temperature (°F)	Water Level (Nearest 0.01 ft.)	Conductive Water Level Volume of Water Removed from Pumping Rate WELL (gallons)	
					WELL	Rate (gallons/min)
14:04	6.82	1276	68		8.0	
14:07	6.87	1286	68		9.0	
	6.89	1296	68		10.5	

Bottom start time 13:50

WELL 17.10

Bottom stop time 14:08

WELL 17.77

Comments:

Transportation (checked preserved) cooler with ice

From container by JNB, MWM

To container by JNB, MWM

SAMPLING INFORMATION SHEET

Weather Conditions: Partly Temperature: 60°
Cloud Cover: _____
Wind Speed: 0-2 mph

GENERAL CONDITIONS.

Sample ID: MW-1 Project: 40-93-936
Location: Beacon 721 W.L.: 1, 24, 94 Time: 14:22
Sampling Point: MW-1 Date Sampled: 1, 24, 94
Describe Sampling Point: See Site Map

Well Depth	<u>31.20</u>	ft. below MPP	Casing diameter	<u>2</u>	inches
Depth to water (below MPP)	<u>17.91</u>	ft.	Date	<u>1,24,94</u>	
Discharge rate		gpm x 0.00222 =		Time <u>12:30</u>	
At least	<u>4</u>	Well volumes have been evacuated before sampling.			
Sampling Method	<u>Trip</u>	Submersible pump	<input checked="" type="checkbox"/>	Bailer	<input type="checkbox"/> Other
Pump location or bailed out at		ft. below MPP			
Tubing (type) <u>disposable bailer</u>	<u>Never</u>	(or previously used) was used to collect all samples	<input checked="" type="checkbox"/>	Yes	No
and all field measurements (<u>Yes</u>	<u>Not</u>	Tubing was used only for		
Sample appearance	<u>cloudy</u>				
Note any sampling problems					
Note any cleaning performed in the field	<u>slope</u>				
Samples collected	<u>3 VOA's with HCl; BTEX, TPH gas</u>				

EVACUATION/STABILIZATION TEST DATA

Time	pH Units	Temperature Corrected Conductance (umhos/cm)	Temperature (F)	Water Level (Nearest 0.01 ft.)	Cumulative Volume of Water Removed from Pumping Rate Well (gallons)	(gpm)
14:14			17.96	7.0		
					7.75	
					8.75 gal.	

Comments: Purged 3 well volumes w/ Honda pump; purged last well
volume w/ bailer. Green/odor or purged water → no pH/temp/conc
taken.

~~Transportation~~ (sharpened preservation) cooler with ice

Form completed by: JNB, MWM Submitted by: JNB, MWM

SAMPLING INFORMATION SHEET

Weather Conditions
 Cloud Cover Partly Temperature 60°
 Wind Speed 0-2 mph

GENERAL CONDITIONS

Sample ID MW-3 Project 40-93-936
 Location Beacon 721 W.D. 1, Date Sampled 1, 24, 94 Time 14:42
 Sampling Point MW-3 Date Sampled 1, 24, 94 Time 14:42
 Describe Sampling Point See site map

Well Depth 29.30 ft. below MP Casing diameter 2 inches
 Depth to water (below MP) 17.35 ft. Date 1, 24, 94 Time 12:31
 Discharge rate 0.00223 gpm x 0.00223 cu.
 At least 4 Well volumes have been evacuated before sampling.
 Sampling Method Tan Submersible pump Baile Other
 Pump location or baile set at _____ ft. below MP
 Tubing (type) disposable baile Never (or previously used) was used to collect all samples Yes No
 and all field measurements (Yes No). Tubing was used only for _____
 Sample appearance cloudy
 Note any sampling problems _____
 Note any cleaning performed in the field slope
 Samples collected 3 VOA's with HCl; BTEX, TPH gas

EVACUATION/STABILIZATION TEST DATA

Time	pH Units	Temperature Corrected Conductance (mmhos/cm)	Temperature (°F)	Water Level (Nearest 0.01 ft.)	Cumulative Volume of Water Removed from Pumping Well (gallons)	
					ft.	gallons
14:35	-	-	-	17.36	6 gal	
	-	-	-			
	-	-	-			
	-	-	-			

Existing water level 17.35 m 17.35 ft.

Existing water level 17.85 m 17.85 ft.

Purged legal w/ Honda pump (3 well volumes); Purged 2gal (1 well)
 (Volume) w/ Bailex. Heavy Sheen odor → no pH / temp / cond taken.

Transportation (shortest presentation) cooler with ice

Form submitted by JNB, MWM Form received by JWB, MWM

SAMPLING INFORMATION SHEET

Weather Conditions

Cloud Cover

Temperature

Wind Speed

GENERAL CONDITIONS

Sample ID

MW-7

Project

40-93-936

Location

Beacon 721

W.L.

Sampling Point

MW-7

Date Sampled

1, 24, 94

Time 15:12

Describe Sampling Point

See Site Map

Well Depth

24.30

ft. below M.P.

Casing Diameter

2

inches

Depth to water (below M.P.)

16.07

ft.

Date 1, 24, 94

Time 12:29

Discharge rate

gpm = 0.00222 =

At least

4

Well volumes have been evacuated before sampling.

Sampling Method

Tro

Submersible pump

X

Bailer

Other

Pump intake or bailed out at

ft. below M.P.

Tubing (type) **Disposable bailer** (ever or previously used) was used to collect all samples Yes No
and all fluid measurements Yes No. Tubing was used only for

Samples appearance **Slightly Cloudy**

Note any sampling problems

Note any cleaning performed in the field **slope**

Samples collected **3 VOA's with HCl; BTEX, TPH gas**

EVACUATION/STABILIZATION TEST DATA

Time	pH Units	Temperature Corrected Conductance (mhos/cm)	Temperature (F)	Water Level (Nearest 0.01 ft.)	Cumulative Volume of Water Extracted from Pumping Zone Well (milliliter)	
					Elapsed Time	Elapsed Volume (ml)
15:06	6.91	1253	67	16.07	4.0	
	6.98	1169	67			5.0
	6.86	1197	67			5.5gal

Extraction point time

16.07

Extraction start time

17.45

Pumped well dry w/ Honda pump after 2gal → lot recharge → pumped remaining 2gal (total 3 well volumes); purged 1 well volume w/ Bailer.

Transportation (shipped preserved)

cooler with ice

Form completed by

JWB MWM

JWB, MWM

SAMPLING INFORMATION SHEET

Weather Conditions
 Cloud Cover Partly Temperature 60°
 Wind Speed 0-2 mph

GENERAL CONDITIONS

Sample ID# MW-11 Project # 40-93-936
 Location Beacon 721 W.D. # 1, Date Sampled 1, 24, 94 Time 15:50
 Sampling Point MW-11 Describ Sampling Point see site map

Well Depth 29.50 ft below MP Casing diameter 2 inches
 Depth to water (below MP) 19.79 ft Date 1, 24, 94 Time 12:18
 Discharge rate 4 gpm x 0.00222 = ft
 At least 4 Well volumes have been evacuated before sampling.

Sampling Method Tap Submersible pump Bailey Other
 Pump intake or bailey size at ft. below MP
 Tapping type disposable bailey (Never) or previously used was used to collect all samples Yes No
 and all field measurements (Yes No) Tapping was used only for

Sample appearance Slightly cloudy
 Note any sampling problems
 Note any cleaning performed in the field Slope
 Samples collected 3 VOA's with HCl; BTEX, TPH gas

EVACUATION/STABILIZATION TEST DATA

Time	Art. Water	Temperature Corrected Conductance (unreduced)	Temperature (F)	Cumulative Water Level Volume of Water Removed from Pumping Rate GPM ft	
				Rate (ft/min)	Well (gallons)
	7.44	808	65		
	7.24	812	65		
	7.12	824	66		6.5 gal

Evacuation start time 15:38 ml 19.79
 Evacuation stop time 15:48 ml 19.82

Comments
 Transportation (Optional) cooler with ice
 Form completed by JNB, MWM Checked by JNB, MWM

ENCLOSURE C

Ground Water Sample Laboratory Reports



January 28, 1994
Sample Log 8457

Todd Galati
Delta Environmental Consultants, Inc.
3330 Data Drive
Rancho Cordova, CA 95670

Subject: Analytical Results for 13 Water Samples
Identified as: Project # 40-93-936 (Beacon 721)
Received: 01/25/94

Dear Mr. Galati:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on January 28, 1994 and describes procedures used to analyze the samples.

Sample(s) were received in 40-milliliter glass vials sealed with TFE lined septae and plastic screw-caps. Each sample was transported and received under documented chain of custody and stored at 4 degrees C until analysis was performed.

Sample(s) were analyzed using the following method(s):

"BTEX" (EPA Method 602/Purge-and-Trap)
"TPH as Gasoline" (Modified EPA Method 8015/Purge-and-Trap)

Please refer to the following table(s) for summarized analytical results and contact us at 916-753-9500 if you have questions regarding procedures or results. The chain-of-custody document is enclosed.

Approved by:



Joel Kiff
Senior Chemist



Sample Log 8457
8457-1

Sample: MW-4

From : Project # 40-93-936 (Beacon 721)

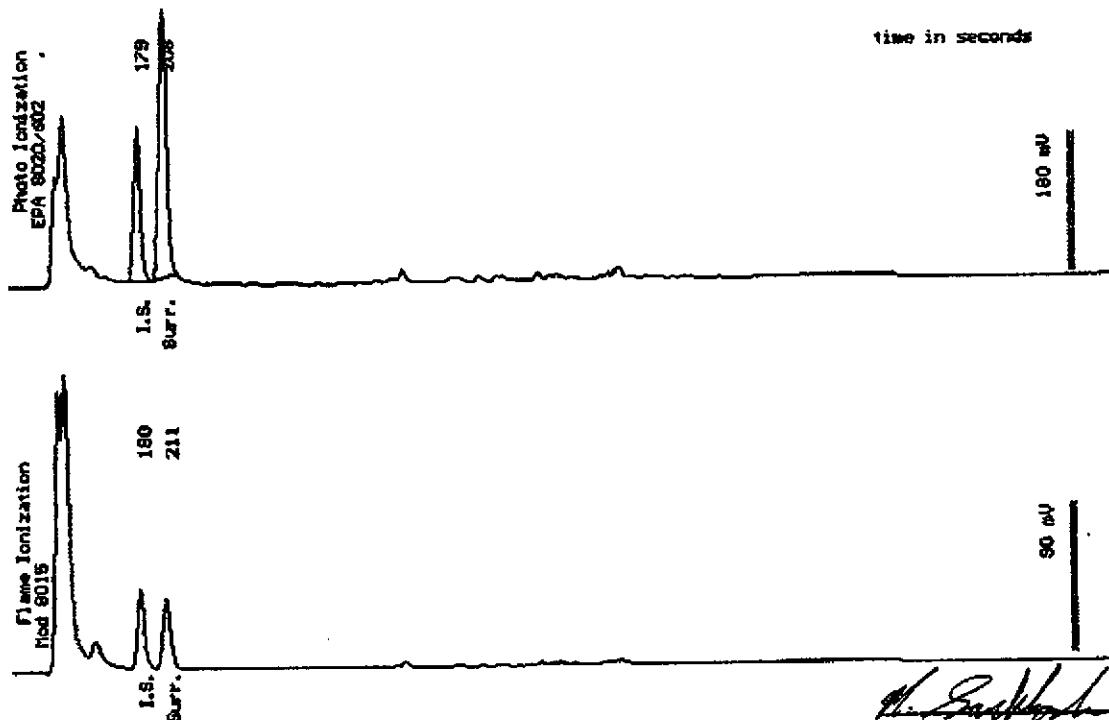
Sampled : 01/24/94

Dilution : 1:1

QC Batch : 2048e

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	260
Surrogate Recovery		111 %



Date Analyzed: 01-26-94
Column : 0.53mm ID X 30m DB5 (J&W Scientific)

Mitra Sarkhosh
Senior Chemist

WEST

Sample Log 8457

8457-2

Sample: MW-5

From : Project # 40-93-936 (Beacon 721)

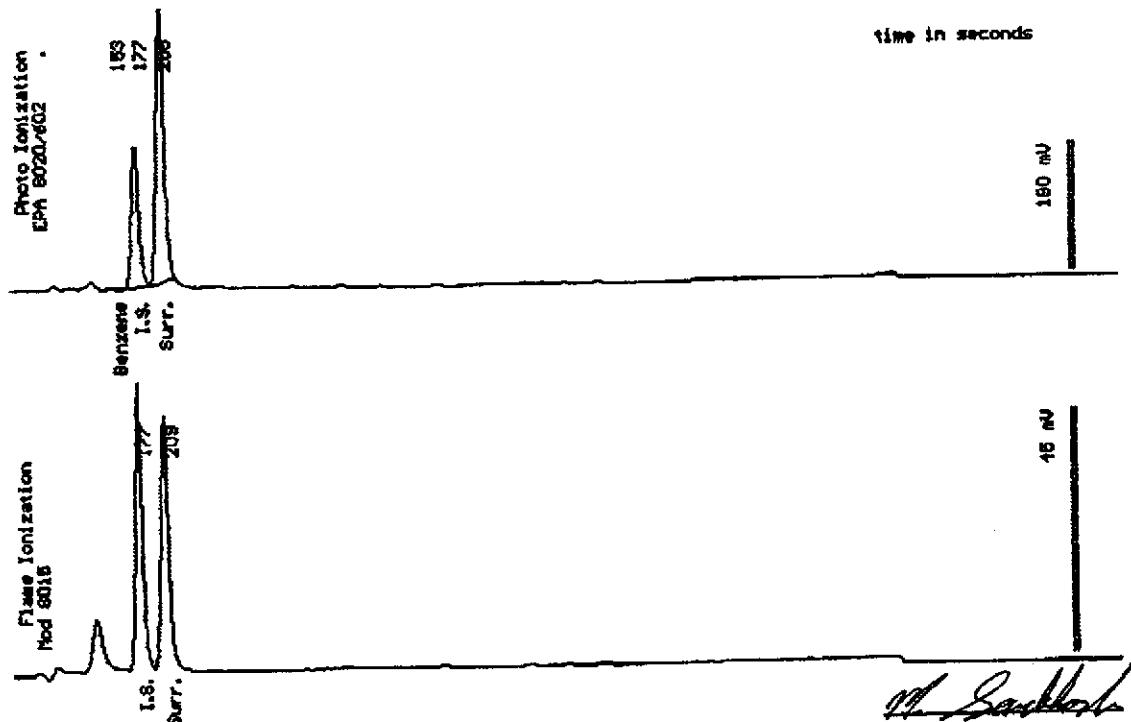
Sampled : 01/24/94

Dilution : 1:1

QC Batch : 2048e

Matrix : Water

Parameter	(MRL) $\mu\text{g}/\text{L}$	Measured Value $\mu\text{g}/\text{L}$
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		111 %



Date Analyzed: 01-26-94
Column : 0.53mm ID X 30m DB5 (J&W Scientific)

Mitra Sarkhosh
Senior Chemist



Sample Log 8457

8457-3

Sample: MW-2

From : Project # 40-93-936 (Beacon 721)

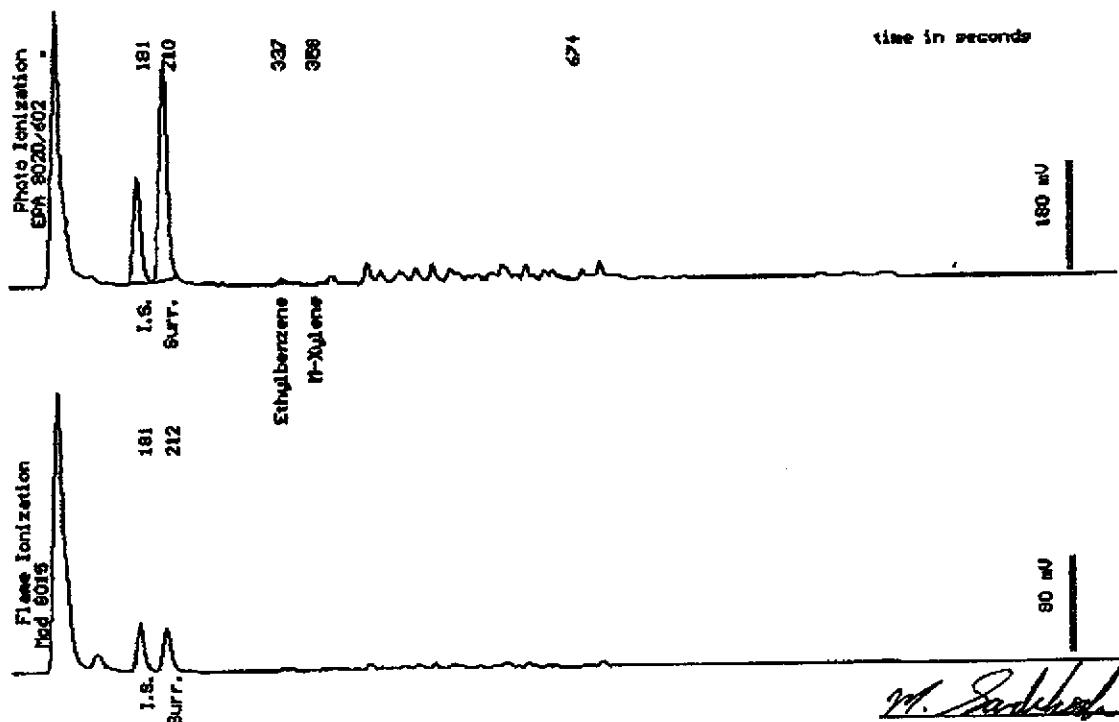
Sampled : 01/24/94

Dilution : 1:1

QC Batch : 2048e

Matrix : Water

Parameter	(MRL) $\mu\text{g}/\text{L}$	Measured Value $\mu\text{g}/\text{L}$
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	.68
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	330
Surrogate Recovery		115 %



Date Analyzed: 01-26-94
Column: 0.53mm ID X 30m DB5 (J&W Scientific)

Mitra Sarkhosh
Senior Chemist



Sample Log 8457
8457-4

Sample: MW-1

From : Project # 40-93-936 (Beacon 721)

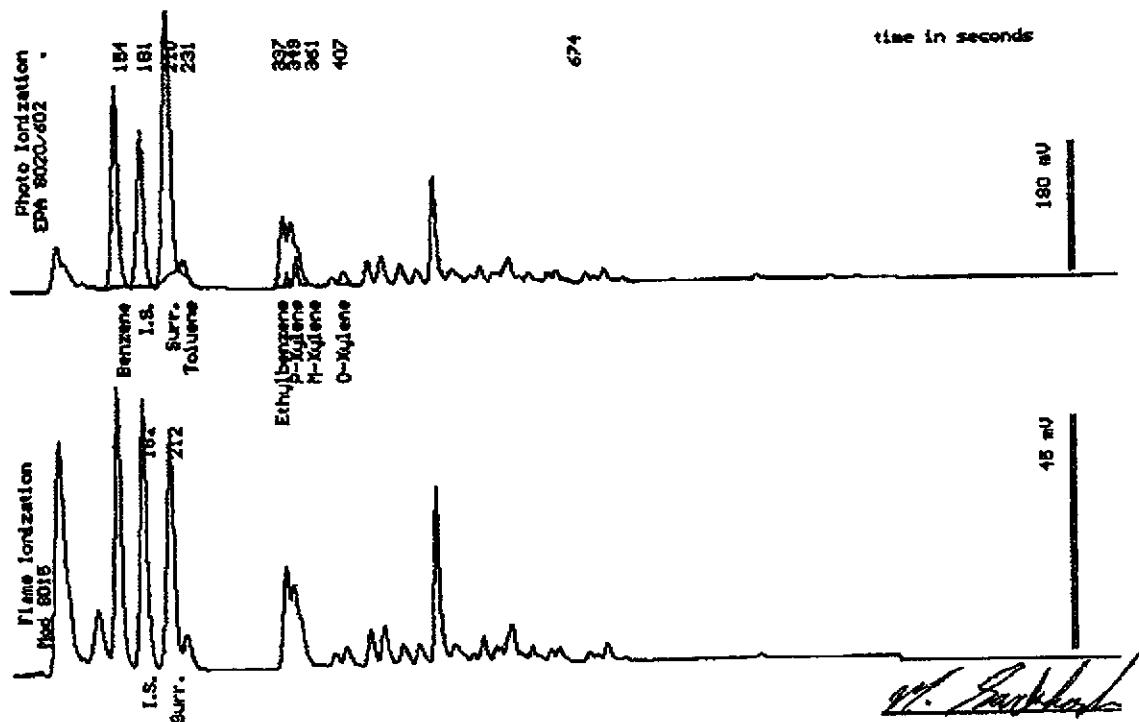
Sampled : 01/24/94

Dilution : 1:100

QC Batch : 2048e

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(50)	2400
Toluene	(50)	280
Ethylbenzene	(50)	1100
Total Xylenes	(50)	1700
TPH as Gasoline	(5000)	18000
Surrogate Recovery		109 %



Date Analyzed: 01-26-94
Column: 0.63mm ID X 30m DB5 (J&W Scientific)

Mitra Barthosh
Senior Chemist



Sample Log 8457
8457-6

Sample: MW-3

From : Project # 40-93-936 (Beacon 721)

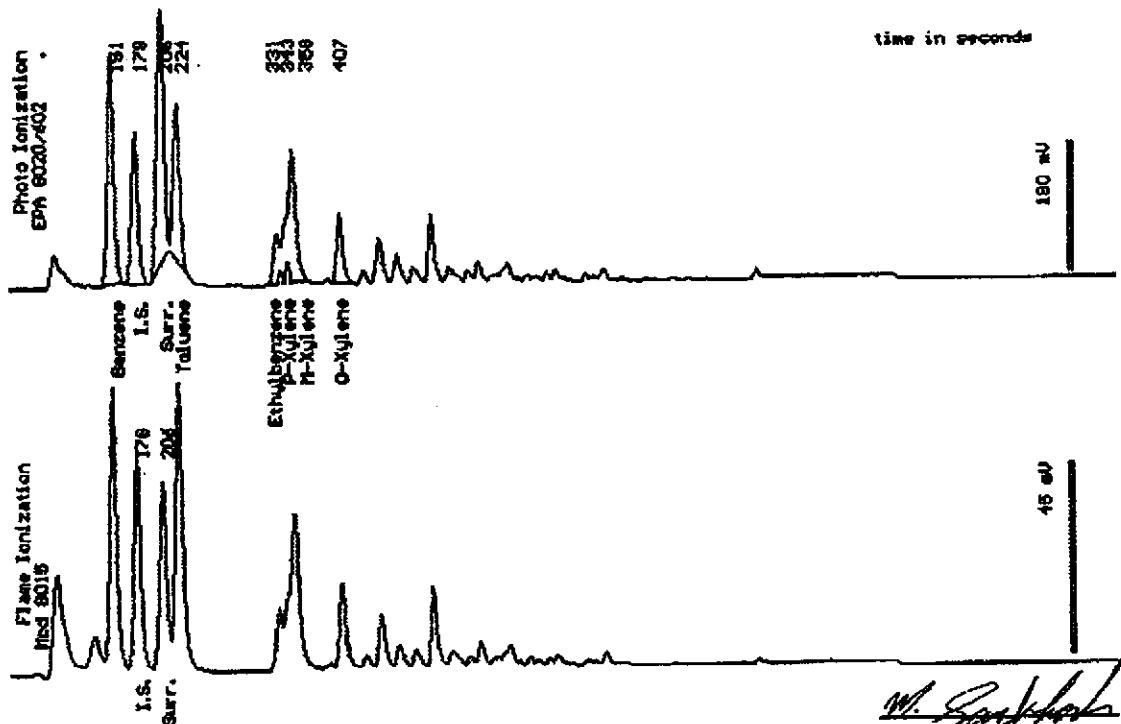
Sampled : 01/24/94

Dilution : 1:500

QC Batch : 2048e

Matrix : Water

Parameter	(MRL) $\mu\text{g}/\text{mL}$	Measured Value $\mu\text{g}/\text{mL}$
Benzene	(250)	14000
Toluene	(250)	17000
Ethylbenzene	(250)	4200
Total Xylenes	(250)	19000
TPH as Gasoline	(25000)	110000
Surrogate Recovery		100 %



Date Analyzed: 01-26-94
Column : 0.53mm ID X 30m DB8 (J&W Scientific)

Mitra Barkhosh
Senior Chemist



Sample Log 8457
8457-6

Sample: MW-6

From : Project # 40-93-936 (Beacon 721)

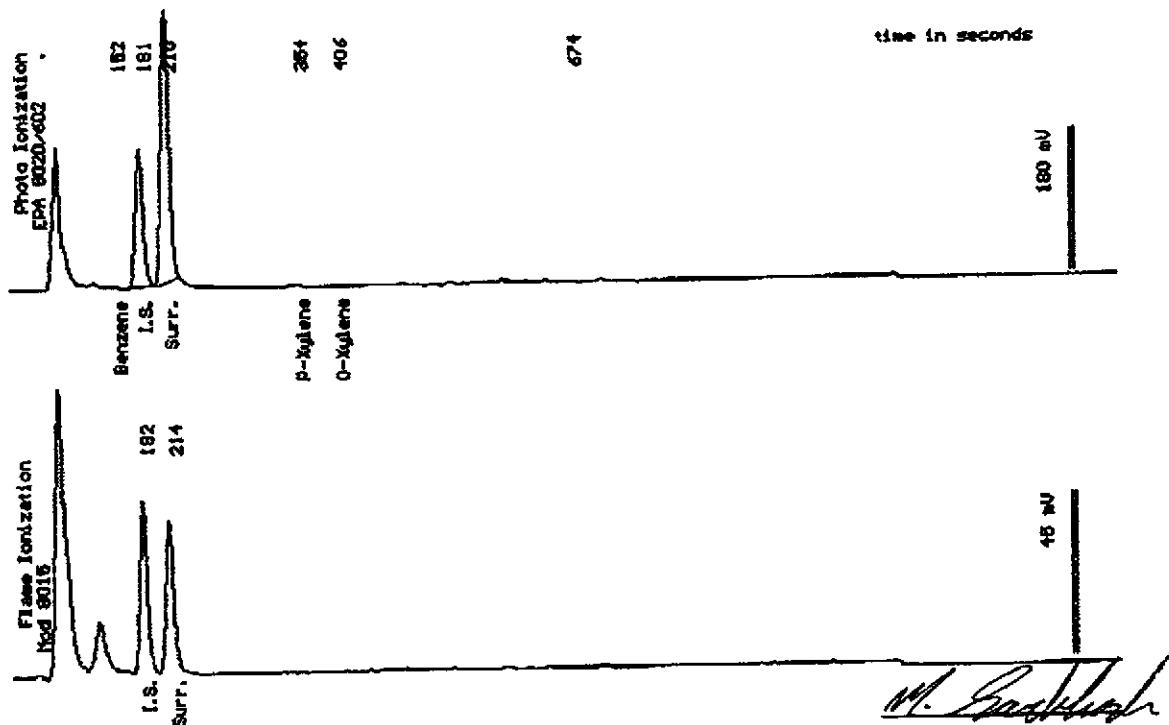
Sampled : 01/24/94

Dilution : 1:1

QC Batch : 2048e

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	98
Surrogate Recovery		115 %



Date Analyzed: 01-26-94
Column: 0.63mm ID X 30m DB5 (J&W Scientific)

Mitra Sarkhosh
Senior Chemist



Sample Log 8457
8457-2

Sample: MW-7

From : Project # 40-93-936 (Beacon 721)

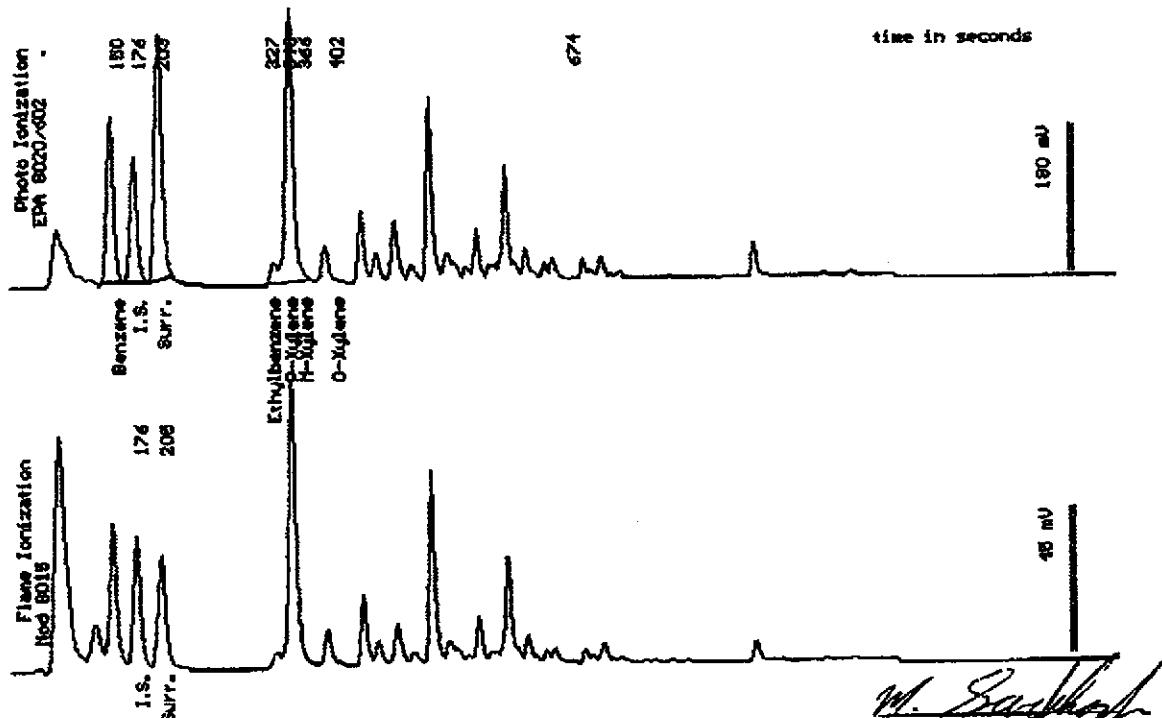
Sampled : 01/24/94

Dilution : 1:3

PC Batch : 2048f

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(1.3)	61
Toluene	(1.3)	<1.3
Ethylbenzene	(1.3)	10
Total Xylenes	(1.3)	160
TPH as Gasoline	(130)	900
Surrogate Recovery		113 %



Date Analyzed: 01-26-94
Column: 0.53mm ID X 30% DBS (JAI Scientific)

Mitra Sarkhosh
Senior Chemist



Sample Log 8457
8457-8

Sample: MW-8

From : Project # 40-93-936 (Beacon 721)

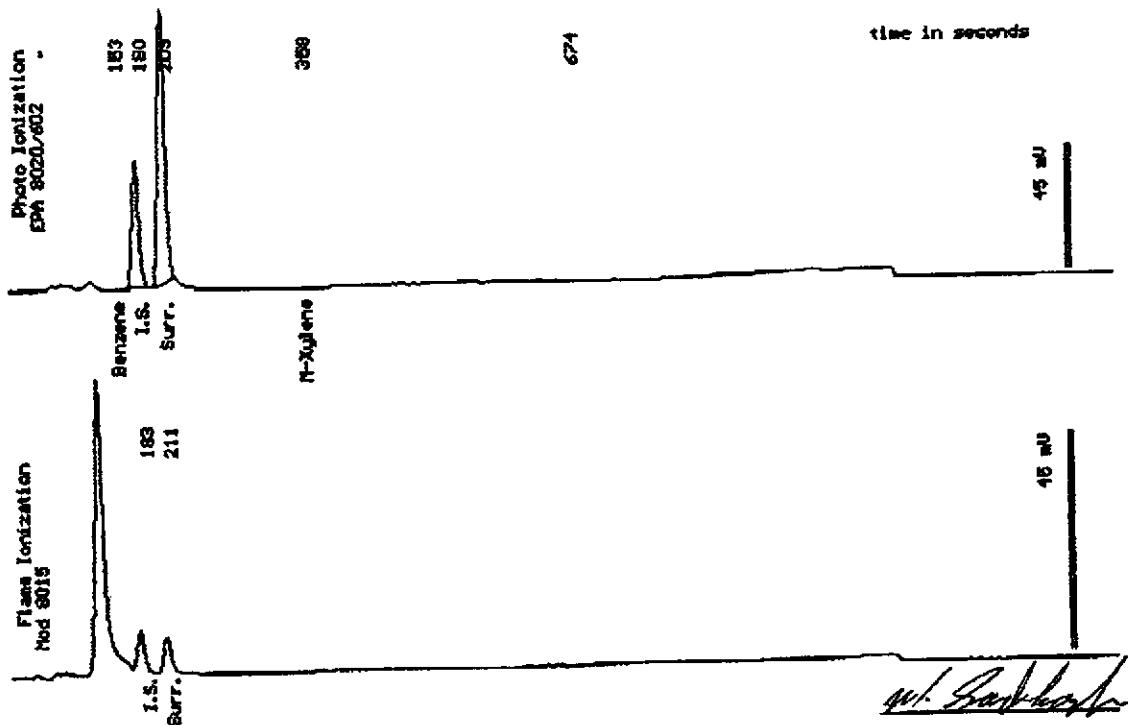
Sampled : 01/24/94

Dilution : 1:1

QC Batch : 2048e

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	290
Surrogate Recovery		123 %



Date Analyzed: 01-26-94
Column: 0.53mm ID X 30m DB5 (J&W Scientific)

Mitra Barkhosh
Senior Chemist



Sample Log 8457

8457-9

Sample: MW-11

From : Project # 40-93-936 (Beacon 721)

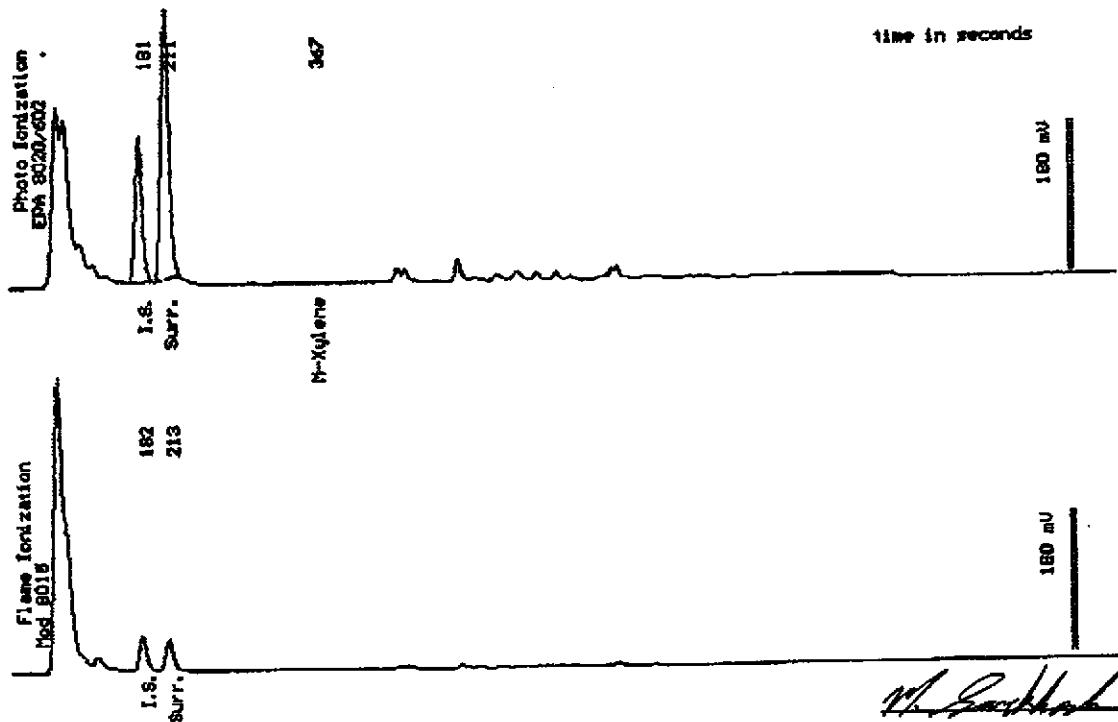
Sampled : 01/24/94

Dilution : 1:1

QC Batch : 2048e

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	450
Surrogate Recovery		116 %



Date Analyzed: 01-26-94
Column: 0.63mm ID X 30m DB5 (J&W Scientific)

Mitra Sarkhosh
Mitra Sarkhosh
Senior Chemist



Sample Log 8457

8457-10

Sample: MW-9

From : Project # 40-93-936 (Beacon 721)

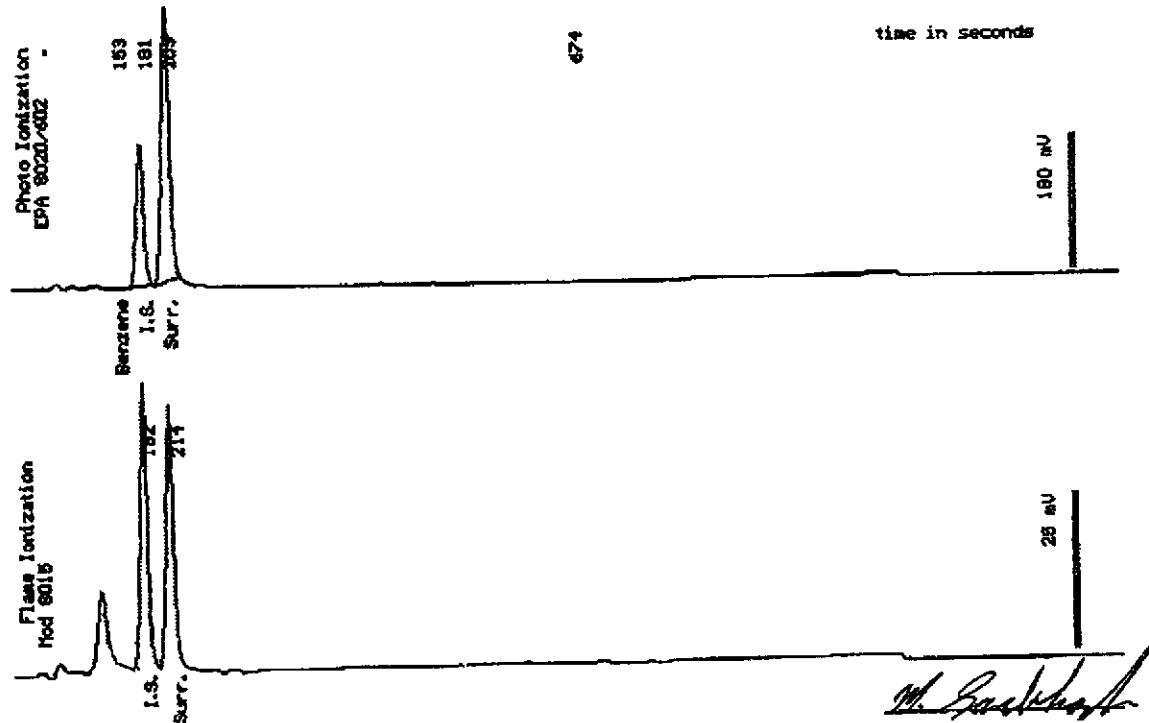
Sampled : 01/24/94

Dilution : 1:1

QC Batch : 2048e

Matrix : Water

Parameter	(MRL) $\mu\text{g}/\text{L}$	Measured Value $\mu\text{g}/\text{L}$
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		115 %



Date Analyzed: 01-26-94
Column: 0.53mm ID X 30m DB6 (JW Scientific)

Mitra Sarkhosh
Senior Chemist



Sample Log 8457
8457-31

Sample: RW-1

From : Project # 40-93-936 (Beacon 721)

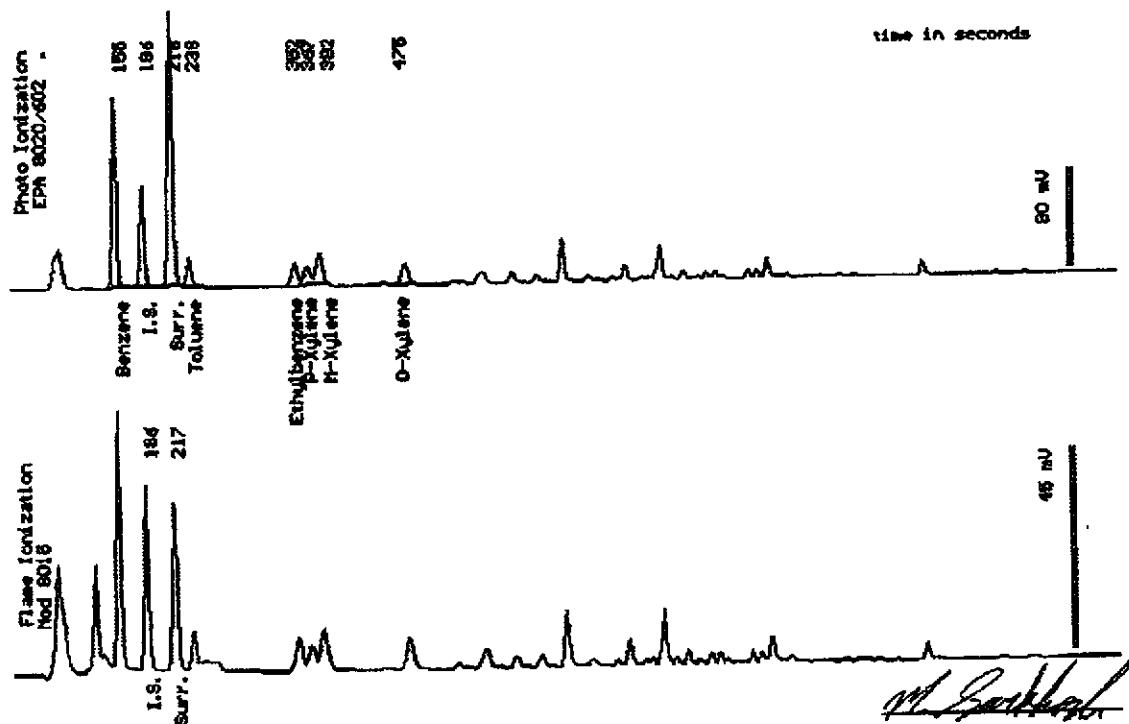
Sampled : 01/24/94

Dilution : 1:1

QC Batch : 4062D

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(.50)	33
Toluene	(.50)	6.0
Ethylbenzene	(.50)	6.9
Total Xylenes	(.50)	23
TPH as Gasoline	(50)	190
Surrogate Recovery		94 %



Date Analyzed: 01-27-94
Column: 0.53mm ID X 30m DBMAX (J&W Scientific)

Mitra Sarkhosh
Senior Chemist



Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. 721	Sampler (Print Name) John W Black	ANALYSES			Date 1-25-94	Form No. 1 of 2
Project No. 40-93-936	Sampler (Signature) JW Black	BTEX	TPH (gasoline)	TPH (diesel)	No. of Containers	WEST 1045 OLIVE DR., 3 DAVIS, CA 95616 916 753-9500
Project Location 44 Jewell St Bldg San Lorenzo, CA	Affiliation Delta					REMARKS Standard turnaround
Sample No./Identification MW-4	Date 1-24-94	Time 13:08	Lab No.	XX	3	
MW-5		13:38		XX	3	
MW-2		14:10		XX	3	
MW-1		14:22		XX	3	
MW-3		14:42		XX	3	
MW-6		14:56		XX	3	
MW-7		15:12		XX	3	
MW-8	↓	15:30		XX	3	
Relinquished by: (Signature/Affiliation) JW Black / Delta	Date 1-25-94	Time 08:45	Received by: (Signature/Affiliation) Todd Galati / Delta		Date 1-25-94	Time 08:55
Relinquished by: (Signature/Affiliation) J.W. Black / Delta	Date 1-25-94	Time 13:15	Received by: (Signature/Affiliation) J.W. Black / WEST		Date 1-25-94	Time 13:15
Relinquished by: (Signature/Affiliation) Todd Galati / WEST	Date 1-25-94	Time 16:00	Received by: (Signature/Affiliation) CWEST		Date 1-25-94	Time 16:00
Report To: Todd Galati / Delta PAX 916 638-8385 ph 638-2685			Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: Mr. Terrence Fox			

WHITE: Return to Client with Report

YELLOW: Laboratory Copy

PINK: Originator Copy

32-6003-100



Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. 721	Sampler (Print Name) John W Black		ANALYSES				Date 1-25-94	Form No. 2012			
Project No. 40-93-936	Sampler (Signature) JW Black										
Project Location 44 Lewelling Blvd San Lorenzo, CA	Affiliation Delta						No. of Containers				
Sample No./Identification MW-11- MW-9- RW-1- GAC inf- GAC eff-	Date 1/24/94	Time 15:50	Lab No.	BTEX	TPH (gasoline)	TPH (diesel)	C.O.D. / Suspended Solids		REMARKS Standard turnaround		
				X			X	3			
					X		X	3			
						X		3			
							X	3			
							X	5			
RECEIVED by W.E.S.T. date 1-25-94											
Relinquished by: (Signature/Affiliation) JW Black / Delta	Date 1-25-94	Time 08:45	Received by: (Signature/Affiliation) J.W. Black / Delta							Date 1-25-94	Time 08:45
Relinquished by: (Signature/Affiliation) J.W. Black / Delta	Date 1-25-94	Time 15:15	Received by: (Signature/Affiliation) Troy J. WEST							Date 1-25-94	Time 15:15
Relinquished by: (Signature/Affiliation) Troy J. WEST / WEST	Date 1-25-94	Time 16:00	Received by: (Signature/Affiliation) Mr. T. Fox / WEST							Date 1-25-94	Time 16:00
Report To: Todd Galati / Delta Fax 916 638-8385 in 638-2085	Bill to:		ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: Mr. Terrence Fox								

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ENCLOSURE D

Ground Water Treatment System Analytical Report



Sample Log 8457
8457-12

Sample: GAC inf

From : Project # 40-93-936 (Beacon 721)

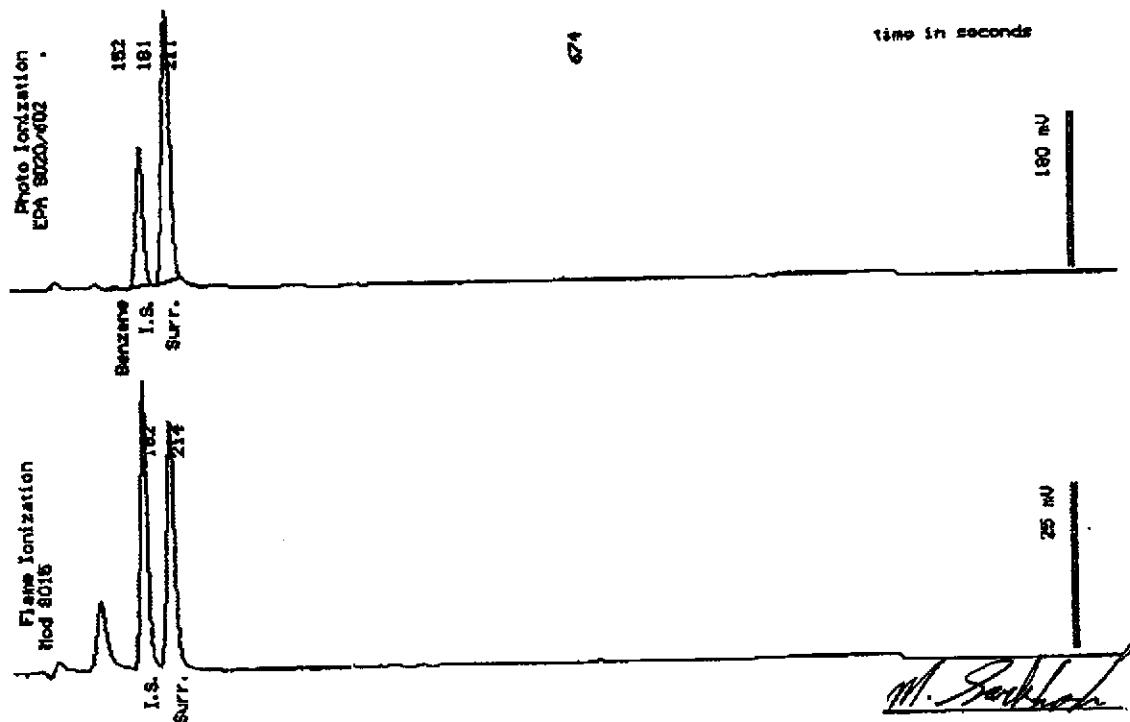
Sampled : 01/24/94

Dilution : 1:1

QC Batch : 2048e

Matrix : Water

Parameter	(MRL) $\mu\text{g/l}$	Measured Value $\mu\text{g/l}$
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		120 %



Date Analyzed: 01-26-94
Column: 0.63mm ID X 3m DB5 (J&W Scientific)

Mitra Sarkhosh
Senior Chemist



Sample Log 8457

8457-13

Sample: GAC eff

From : Project # 40-93-936 (Beacon 721)

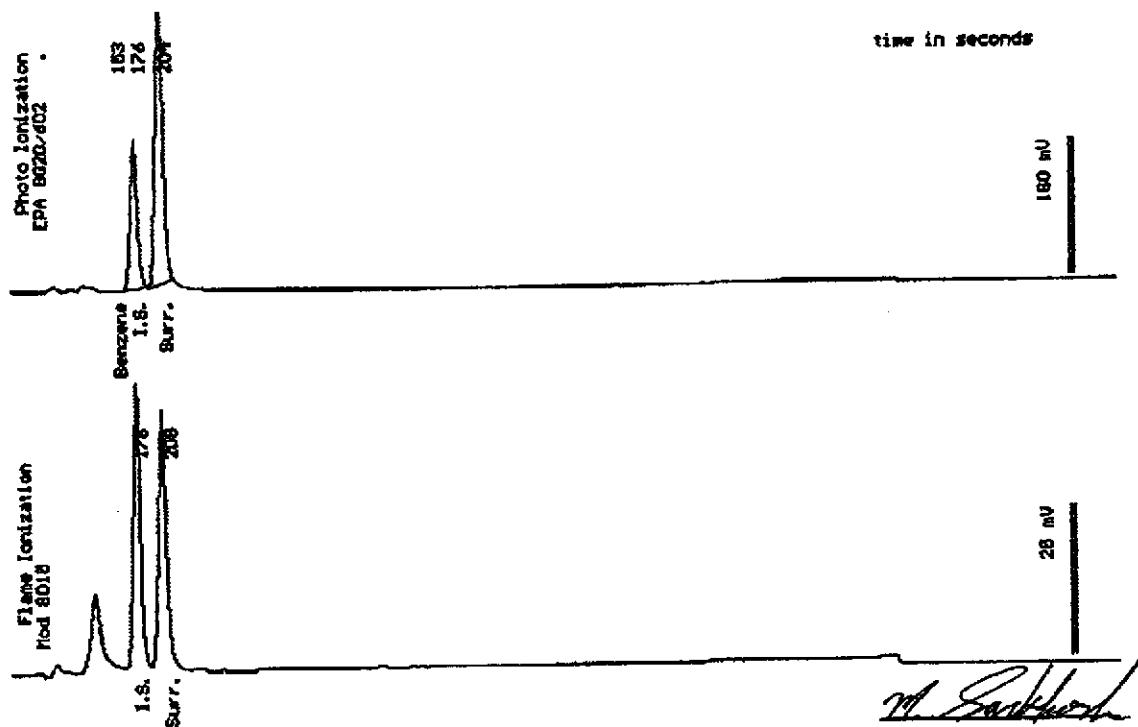
Sampled : 01/24/94

Dilution : 1:1

QC Batch : 2048e

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		115 %



Date Analyzed: 01-26-94
Column: 0.63mm ID x 3m 0.05 (J.W. Scientific)

Mitra Sarkhosh
Senior Chemist



Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. 721	Sampler (Print Name) Jon W BLACK		ANALYSES			Date 1-25-94	Form No. of 2	
Project No. 40-93-936	Sampler (Signature) JW Black					WEST 1045 OLIVE DR., 3 DAVIS, CA 95616 916 753-9500		
Project Location 44 Jewellling Blvd San Lorenzo, CA	Affiliation Delta							
Sample No./Identification	Date	Time	Lab No.	BTEX	TPH (gasoline)	TPH (diesel)	No. of Containers	REMARKS
MW-4-	1-24-94	13:08		XX			3	standard turnaround
MW-5-		13:38		XX			3	
MW-2-		14:10		XX			3	
MW-1-		14:22		XX			3	
MW-3-		14:42		XX			3	
MW-6-		14:56		XX			3	
MW-7-		15:12		XX			3	
MW-8-		15:30		XX			3	
Relinquished by: (Signature/Affiliation) JW Black / Delta	Date 1-25-94	Time 08:45	Received by: (Signature/Affiliation) Todd Galati / Delta				Date 1-25-94	Time 08:45
Relinquished by: (Signature/Affiliation) JW Black / Delta	Date 1-25-94	Time 13:15	Received by: (Signature/Affiliation) Troy S. Sapp / WEST				Date 1-25-94	Time 15:15
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)				Date	Time
Report To: Todd Galati / Delta FAX 916 638-8385 ph 638-2685			Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: Mr. Terrence Fox					



Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. 721	Sampler (Print Name) Jon W Black		ANALYSES				Date 1-25-94	Form No. 2 of 2	
Project No. 40-93-936	Sampler (Signature) JWBlack		BTEX	TPH (gasoline)	TPH (diesel)	C.O.D.	Suspended Solids		
Project Location 44 Jewellling Blvd San Lorenzo, CA	Affiliation Delta							No. of Containers	
Sample No./Identification MW-11-	Date	Time 15:50		XX				3	REMARKS Standard turnaround
MW-9 -		16:08		XX				3	
RW-1 .		16:16		XX				3	
GAC inf -		16:25		XX				3	
GAC eff -		16:33		XX	XX			5	
Relinquished by: (Signature/Affiliation) JWBlack / Delta		Date 1-25-94	Time 08:45	Received by: (Signature/Affiliation) Troy J. Turner / WEST				Date 1-25-94	Time 08:45
Relinquished by: (Signature/Affiliation) Troy J. Turner / WEST		Date 1-25-94	Time 15:15	Received by: (Signature/Affiliation) Troy J. Turner / WEST				Date 1-25-94	Time 15:15
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation)				Date	Time
Report To: Todd Galati / Delta fax 916 638-4385 ph 636-2085				Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: _____		Mr. Terrence Fox			
WHITE: Return to Client with Report				YELLOW: Laboratory Copy				PINK: Originator Copy	