

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

*It appears the work
removed from MW-3
is now in main dry.*

ENVIRONMENTAL
PROTECTION
96 NOV 22 PM 1:55

November 20, 1996

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 and Status of Remediation System, Third Quarter 1996** for the above-referenced Ultramar facility. Also included is a copy of the Quarterly Status Report.

On separate occasions, the air compressor for the remediation system has been stolen from this site. This has caused the remediation system to be down recently. Ultramar has installed a smaller air compressor in order to discourage any future theft. However, the compressor is only large enough to operate the air sparging. At this point, Ultramar plans to continue operating the vapor extraction and air sparging and the ground water extraction has been suspended.

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: November 20, 1996
QUARTER ENDING: September 30, 1996

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.



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

In December 1995, installed an air sparging system.

SUMMARY OF THIS QUARTER'S ACTIVITIES:

Performed quarterly monitoring on October 2, 1996.

Continued to operate the remediation system.

RESULT OF QUARTERLY MONITORING:

Monitoring data indicates that measurable free product was not detected in any well. Benzene concentrations remained not detected in wells MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, and MW-11. The benzene concentration decreased in MW-1 from 48 ppb to 16 ppb and in MW-2 from 1.6 ppb to not detected. The benzene concentration increased in MW-10 from not detected to 18 ppb and in RW-1 from 38 ppb to 68 ppb. MW-3 was not sampled this quarter.

Approximately 1,176,762 gallons of ground water have been removed, treated, and discharged. Reportedly, approximately 102 gallons of hydrocarbons have been removed the vapor extraction system.

PROPOSED ACTIVITY OR WORK FOR NEXT QUARTER:

<u>ACTIVITY</u>	<u>ESTIMATED COMPLETION DATE</u>
Continue quarterly ground-water monitoring.	Ongoing
Continue operation of the vapor extraction and air sparging.	Ongoing



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

November 18, 1996

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

Subject: *Quarterly Ground Water Monitoring Report and
Status of Remediation System, Third Quarter 1996*
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. to conduct quarterly ground water monitoring and perform remedial actions at the above-referenced site. The monitoring is intended to evaluate the distribution of dissolved 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 activities performed at the site on October 2, 1996, and the remediation system status through September 18, 1996. 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 in the monitoring wells, and collection of ground water samples for chemical analysis in monitoring wells MW-1 through MW-11 and recovery well RW-1. Delta was unable to collect a sample from monitoring well MW-3, due to the well being dry. Methods used to perform these tasks are described in Enclosure A.

Ground Water Table Measurements and Flow Direction

Depth to ground water was measured in all of the wells at depths ranging from 14.50 (MW-7) to 18.20 (MW-11) feet below the tops of well casings. Ground water monitoring well MW-3 was dry. Ground water elevations have decreased an average of approximately one foot since the previous quarterly monitoring event in March 1996. Cumulative ground water table measurements at the site are compiled in Table 1. Based on the ground water table measurements, the inferred ground water flow is away from recovery well RW-1 with a gradient of less than 0.01 foot. The ground water recovery system was not operating during this monitoring event. A ground water table contour map prepared from the current event data is included as Figure 3.

*See Mike Perin's
well log for a diagram
from one of ORCS*

Ground Water Analytical Results

Ground water samples were collected from all of the monitoring wells (with the exception of MW-3). The ground water samples were submitted to Western Environmental Science and Technology (West laboratory) of Davis, California, for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tertiary butyl ether (MTBE) using EPA Method 602/5030, and total petroleum hydrocarbons (TPH) as gasoline using EPA Method 8015 Modified. Copies of the sampling information data sheets are included in Enclosure B.

Benzene was not detected at or above the laboratory detection limit in ground water samples collected from MW-2, MW-4 through MW-9, and MW-11. Detectable benzene concentrations ranged from 16 micrograms per liter ($\mu\text{g/L}$) in MW-1 to 68 $\mu\text{g/L}$ in RW-1. Using the October 1996 ground water analytical data, a benzene isoconcentration contour map was constructed and is included as Figure 4. Cumulative ground water analytical results for TPH as gasoline and BTEX are summarized in Table 2. A copy of the certified analytical report with chain of custody documentation is provided in Enclosure C.

Status of Remediation System

Delta has performed operation and maintenance of the ground water remediation and soil vapor extraction (SVE) system at the site since April 1993. The ground water remediation system pumps ground water from 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 Sewer District (Permit No. 018). The SVE system removes soil vapors under vacuum from MW-3 and RW-1. The soil vapors are then abated by two vapor phase granular activated carbon columns placed in series. The SVE system is currently in operation. As of September 18, 1996, the data indicated that the SVE system had removed approximately 102 gallons of vapor equivalent gasoline from soil underlying the site.

An air sparging system was installed by Delta at the site in December 1995. Air is sparged into the ground water through wells AS-1 through AS-3 shown on Figure 2. The purpose of the air sparging system is to increase the ground water's dissolved oxygen content which, in turn, is anticipated to increase the rate of indigenous biodegradation of petroleum hydrocarbons in the ground water. It is further anticipated that air sparging will aid in the volatilization of dissolved petroleum hydrocarbons in the ground water.

The totalizing flow meter for the ground water remediation system was replaced on January 30, 1996. As of September 18, 1996, the ground water remediation system had discharged approximately 1,176,762 gallons of treated ground water to the sewer. Cumulative totals for ground water treated and discharged to the sewer are presented in Table 3. The ground water system did not operate during July and August 1996 due to mechanical failure of the air compressor which supplies air to the pneumatic submersible pumps.

Ground Water Remediation System Analytical Results

Ground water remediation system samples were collected on September 18, 1996, and submitted to West laboratory to be analyzed for BTEX, MTBE, and TPH as gasoline using the previously

Mr. Terrence A. Fox
Ulramar Inc.
November 18, 1996
Page 3

mentioned methods. The samples were also analyzed for total suspended solids using EPA Method 160.2 and chemical oxygen demand using EPA Method 410.4. Ground water system samples were not collected during July or August 1996, because the system was not operating. The analytical results for BTEX and TPH as gasoline are summarized in Table 4. Copies of the analytical reports for the third quarter 1996 ground water system samples are presented in Enclosure D.

Remarks\Signatures

The interpretations contained in this document 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 document be forwarded to:

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

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

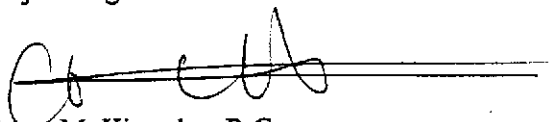
If you have any questions, please contact Owen Kittredge at (916) 638-2085.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.



William L. Brattain
Project Engineer



Owen M. Kittredge, R.G.
Project Manager
California Registered Geologist No. 5853

WLB (LRP003.936)
Enclosures



TABLE 1

GROUND WATER ELEVATIONS

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

Monitoring Well	Date	Top of Riser Elevation (ft) ^a	Depth to Water (ft)	Ground Water Elevation (ft)	Physical Observation of Free Product or Sheen
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	
	04/07/94		16.94	26.73	No free product or sheen
	06/07/94		17.20	26.47	No free product or sheen
	09/28/94		18.73	24.94	No free product or sheen
	12/14/94		17.56	26.11	Product sheen
	03/15/95		14.92	28.75	Product sheen
	06/13/95		15.38	28.29	No free product or sheen
	09/28/95		16.75	26.92	No free product or sheen
	12/28/95		17.28	26.39	No free product or sheen
	03/12/96		14.13	29.54	No free product or sheen
	06/11/96		14.90	28.77	No free product or sheen
10/02/96	16.31	27.36	No free product or sheen		
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	
	04/07/94		16.26	26.83	No free product or sheen
	06/07/94		16.46	26.63	No free product or sheen
	09/28/94		18.06	25.03	No free product or sheen
	12/14/94		16.86	26.23	No free product or sheen
	03/15/95		14.08	29.01	No free product or sheen
	06/13/95		14.67	28.42	No free product or sheen
	09/28/95		16.07	27.02	No free product or sheen
	12/28/95		16.46	26.63	No free product or sheen
	03/12/96		13.11	29.98	No free product or sheen
	06/11/96		14.14	28.95	No free product or sheen
10/02/96	15.71	27.38	No free product or sheen		
MW-3	02/18/92	43.10	16.89	26.21	

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)^a</u>	<u>Depth to Water (ft)</u>	<u>Ground Water Elevation (ft)</u>	<u>Physical Observation of Free Product or Sheen</u>
	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	
	04/07/94		14.48	28.62	No free product or sheen
	06/07/94		13.37	29.73	Product sheen
	09/28/94		18.05	25.05	No free product or sheen
	12/14/94		16.92	26.18	Product sheen
	03/15/95		14.22	28.88	Product sheen
	06/13/95		14.49	28.61	Product sheen
	09/28/95		15.17	27.93	No free product or sheen
	12/28/95		15.45	27.65	No free product or sheen
	03/12/96		11.35	31.75	No free product or sheen
	06/11/96		—	—	Dry
	10/02/96		—	—	Dry
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	
	04/07/94		17.90	26.76	No free product or sheen
	06/07/94		18.08	26.58	No free product or sheen
	09/28/94		19.70	24.96	No free product or sheen
	12/14/94		18.55	26.11	No free product or sheen
	03/15/95		16.14	28.52	No free product or sheen
	06/13/95		16.41	28.25	No free product or sheen
	09/28/95		17.88	26.78	No free product or sheen
	12/28/95		17.81	26.85	No free product or sheen
	03/12/96		14.77	29.89	No free product or sheen
	06/11/96		15.88	28.78	No free product or sheen
	10/02/96		17.40	27.26	No free product or sheen
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	

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)^a</u>	<u>Depth to Water (ft)</u>	<u>Ground Water Elevation (ft)</u>	<u>Physical Observation of Free Product or Sheen</u>
	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	
	04/07/94		16.91	26.88	No free product or sheen
	06/07/94		17.10	26.69	No free product or sheen
	09/28/94		18.73	25.06	No free product or sheen
	12/14/94		17.53	26.26	No free product or sheen
	03/15/95		14.96	28.83	No free product or sheen
	06/13/95		15.30	28.49	No free product or sheen
	09/28/95		16.74	27.05	No free product or sheen
	12/28/95		15.10	28.69	No free product or sheen
	03/12/96		13.67	30.12	No free product or sheen
	06/11/96		14.88	28.91	No free product or sheen
	10/02/96		16.42	27.37	No free product or sheen
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	
	04/07/94		15.70	26.77	No free product or sheen
	06/07/94		15.88	26.59	No free product or sheen
	09/28/94		17.51	24.96	No free product or sheen
	12/14/94		16.27	26.20	No free product or sheen
	03/15/95		13.52	28.95	No free product or sheen
	06/13/95		13.96	28.51	No free product or sheen
	09/28/95		15.61	26.86	No free product or sheen
	12/28/95		15.54	26.93	No free product or sheen
	03/12/96		11.88	30.59	No free product or sheen
	06/11/96		13.52	28.95	No free product or sheen
	10/02/96		15.10	27.37	No free product or sheen
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	
	04/07/94		15.10	26.44	

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)^a</u>	<u>Depth to Water (ft)</u>	<u>Ground Water Elevation (ft)</u>	<u>Physical Observation of Free Product or Sheen</u>
	06/07/94		15.16	26.38	No free product or sheen
	09/28/94		16.82	24.72	No free product or sheen
	12/14/94		15.75	25.79	No free product or sheen
	03/15/95		14.00	27.54	No free product or sheen
	06/13/95		13.44	28.10	No free product or sheen
	09/28/95		14.84	26.70	No free product or sheen
	12/28/95		14.55	26.99	No free product or sheen
	03/12/96		11.88	29.66	No free product or sheen
	06/11/96		13.52	28.58	No free product or sheen
	10/02/96		14.50	27.04	No free product or sheen
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	
	04/07/94		15.95	26.31	No free product or sheen
	06/07/94		15.10	27.16	No free product or sheen
	09/28/94		17.63	24.63	No free product or sheen
	12/14/94		16.66	25.60	No free product or sheen
	03/15/95		14.30	27.96	No free product or sheen
	06/13/95		14.37	27.89	No free product or sheen
	09/28/95		15.62	26.64	No free product or sheen
	12/28/95		15.62	26.64	No free product or sheen
	03/12/96		12.75	29.51	No free product or sheen
	06/11/96		13.94	28.32	No free product or sheen
	10/02/96		15.41	26.85	No free product or sheen
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	
	04/07/94		18.23	26.71	No free product or sheen
	06/07/94		18.40	26.54	No free product or sheen
	09/28/94		20.01	24.93	No free product or sheen
	12/14/94		18.88	26.06	No free product or sheen
	03/15/95		16.24	28.70	No free product or sheen

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)^a</u>	<u>Depth to Water (ft)</u>	<u>Ground Water Elevation (ft)</u>	<u>Physical Observation of Free Product or Sheen</u>
	06/13/95		16.75	28.19	No free product or sheen
	09/28/95		18.04	26.90	No free product or sheen
	12/28/95		17.87	27.07	No free product or sheen
	03/12/96		NM ^b	NM	Not measured ^c
	06/11/96		16.26	28.68	No free product or sheen
	10/02/96		17.74	27.20	No free product or sheen
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	
	04/07/94		15.97	26.37	No free product or sheen
	06/07/94		16.04	26.30	No free product or sheen
	09/28/94		17.69	24.65	No free product or sheen
	12/14/94		16.65	25.69	No free product or sheen
	03/15/95		14.08	28.26	No free product or sheen
	06/13/95		14.49	27.85	No free product or sheen
	09/28/95		15.81	26.53	No free product or sheen
	12/28/95		15.46	26.88	No free product or sheen
	03/12/96		12.62	29.72	No free product or sheen
	06/11/96		14.40	27.94	No free product or sheen
	10/02/96		15.47	26.87	No free product or sheen
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	
	02/03/93		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	
	04/07/94		18.78	26.22	No free product or sheen
	06/07/94		18.88	26.12	No free product or sheen
	09/28/94		20.45	24.55	No free product or sheen
	12/14/94		19.45	25.55	No free product or sheen
	03/15/95		17.32	27.68	No free product or sheen
	06/13/95		17.43	27.57	No free product or sheen
	09/28/95		18.67	26.33	No free product or sheen
	12/28/95		18.31	26.69	No free product or sheen
	03/12/96		15.89	29.11	No free product or sheen

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)^a</u>	<u>Depth to Water (ft)</u>	<u>Ground Water Elevation (ft)</u>	<u>Physical Observation of Free Product or Sheen</u>
	06/11/96		16.98	28.02	No free product or sheen
	10/02/96		18.20	26.80	No free product or sheen
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	
	04/07/94		16.05	27.12	No free product or sheen
	06/07/94		16.00	27.17	No free product or sheen
	09/28/94		18.35	24.82	No free product or sheen
	12/14/94		19.50	23.67	No free product or sheen
	03/15/95		17.00	26.17	No free product or sheen
	06/13/95		14.95	28.22	No free product or sheen
	09/28/95		27.63	15.54	No free product or sheen
	12/28/95		14.54	28.63	No free product or sheen
	03/12/96		11.02	32.15	No free product or sheen
	06/11/96		14.52	28.65	No free product or sheen
	10/02/96		15.53	27.64	No free product or sheen

^a All top of riser elevations surveyed by Aegis Environmental, and are assumed relative to mean sea level.

^b Not measured.

^c Car parked over well.

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

TABLE 2

GROUND WATER SAMPLE ANALYTICAL RESULTS

Concentrations in micrograms per liter ($\mu\text{g/L}$)

Beacon Station No. 721

44 Lewelling Boulevard

San Lorenzo, California

Monitoring Well	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH ^a as gasoline
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
	04/07/94	4,200	820	1,600	2,100	20,000
	06/07/94	1,800	510	1,100	1,600	26,000
	09/28/94	1,700	210	970	870	18,000
	12/14/94	4,400	2,400	2,300	4,300	31,000
	03/15/95	830	310	840	1,200	17,000
	06/13/95	1,300	99	1,500	1,100	22,000
	09/28/95	580	<25	780	410	8,800
	12/28/95	4.9	<1.3	<1.3	290	4,800
	03/12/96	<0.5	<0.5	<0.5	<0.5	110
06/11/96	48	0.9	37	26	600	
10/02/96	16	<0.5	6.0	0.92	210	
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
	04/07/94	<0.5	<0.5	<0.5	4.4	490
	06/07/94	<0.5	<0.5	1.5	<0.5	550
	09/28/94	<0.5	<0.5	<0.5	<0.5	190
	12/14/94	7.2	0.84	<0.5	<0.5	1,400
	03/15/95	39	<0.5	0.53	<0.5	730
	06/13/95	8.3	<0.5	<0.5	<0.5	750 ^c
	09/28/95	<0.5	<0.5	<0.5	<0.5	670 ^c
12/28/95	9.5	<5.0	<5.0	5.2	3,100	
03/12/96	<1.3	<1.3	<1.3	<1.3	710	

TABLE 2-Continued

GROUND WATER SAMPLE ANALYTICAL RESULTS
 Concentrations in micrograms per liter (µg/L)

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

Monitoring Well	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH ^a as gasoline
	06/11/96	1.6	<1.3	<1.3	<1.3	1,900 ^e
	10/02/96	<2.5	<2.5	<2.5	<2.5	2,800
MW-3	02/18/92	---	---	---	---	---
	05/15/92	6,300	5,900	1,700	6,100	160,000
	08/28/92	2,500	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
	04/07/94	6,500	1,800	1,700	4,100	28,000
	06/07/94	6,400	2,300	1,500	3,500	27,000
	09/28/94	7,400	4,300	1,500	4,600	40,000
	12/14/94	17,000	21,000	3,900	22,000	140,000
	03/15/95	4,900	1,900	1,800	7,100	58,000
	06/13/95	7,200	2,900	1,200	4,600	44,000
	09/28/95	5,600	2,100	1,900	6,900	30,000
	12/28/95	32	5.8	18	4,700	16,000
	03/12/96	48	64	5.3	630	2,400
	06/11/96	NS	NS	NS	NS	NS
	10/02/96	NS	NS	NS	NS	NS
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
	08/28/92	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
	04/07/94	<0.5	<0.5	<0.5	<0.5	430
	06/07/94	<0.5	<0.5	<0.5	<0.5	150
	09/28/94	<0.5	<0.5	<0.5	<0.5	75
	12/14/94	<0.5	<0.5	<0.5	<0.5	160
	03/15/95	<0.5	<0.5	<0.5	<0.5	500
	06/13/95	<0.5	<0.5	<0.5	<0.5	210 ^e
	09/28/95	<0.5	<0.5	<0.5	<0.5	140 ^e
	12/28/95	<0.5	<0.5	<0.5	<0.5	510 ^e

TABLE 2-Continued

GROUND WATER SAMPLE ANALYTICAL RESULTS

Concentrations in micrograms per liter ($\mu\text{g/L}$)

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

Monitoring Well	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH ^a as gasoline
	03/12/96	<0.5	<0.5	<0.5	<0.5	<50
	06/11/96	<0.5	<0.5	<0.5	<0.5	50 ^c
	10/02/96	<0.5	<0.5	<0.5	<0.5	<50
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
	04/07/94	<0.5	<0.5	<0.5	<0.5	<50
	06/07/94	<0.5	<0.5	<0.5	<0.5	<50
	09/28/94	<0.5	<0.5	<0.5	<0.5	<50
	12/14/94	<0.5	<0.5	<0.5	<0.5	<50
	03/15/95	<0.5	<0.5	<0.5	<0.5	<50
	06/13/95	<0.5	0.52	<0.5	<0.5	<50
	09/28/95	<0.5	<0.5	<0.5	<0.5	<50
	12/28/95	<0.5	<0.5	<0.5	<0.5	120
	03/12/96	<0.5	<0.5	<0.5	<0.5	<50
	06/11/96	<0.5	<0.5	<0.5	<0.5	<50
	10/02/96	<0.5	<0.5	<0.5	<0.5	<50
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
	01/24/94	<0.5	<0.5	<0.5	<0.5	98
	04/07/94	0.71	<0.5	<0.5	<0.5	150
	06/07/94	<0.5	<0.5	<0.5	<0.5	180
	09/28/94	<0.5	<0.5	<0.5	<0.5	100
	12/14/94	<0.5	<0.5	<0.5	<0.5	140
	03/15/95	<0.5	<0.5	<0.5	<0.5	110
	06/13/95	<0.5	0.87	<0.5	<0.5	150 ^c
	09/28/95	0.78	<0.5	<0.5	<0.5	<50

TABLE 2-Continued

GROUND WATER SAMPLE ANALYTICAL RESULTS

Concentrations in micrograms per liter (µg/L)

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

Monitoring Well	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH ^a as gasoline
	12/28/95	<0.5	<0.5	<0.5	6.3	410
	03/12/96	<0.5	<0.5	<0.5	<0.5	<50
	06/11/96	<0.5	<0.5	<0.5	<0.5	<50
	10/02/96	<0.5	<0.5	<0.5	<0.5	<50
MW-7	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
	09/22/93	71	2.2	33	210	860
	01/24/94	61	<1.3	10	160	900
	04/07/94	53	<0.5	7.1	49	630
	06/07/94	55	<0.5	14	24	730
	09/28/94	21	<0.5	2.3	3.1	300
	12/14/94	19	<0.5	3.3	32	430
	03/15/95	0.88	<0.5	<0.5	<0.5	70
	06/13/95	7.3	0.79	7.6	8.9	190
	09/28/95	1.5	<0.5	1.2	0.84	60
	12/28/95	<0.5	<0.5	0.91	0.69	60
	03/12/96	<0.5	<0.5	<0.5	<0.5	<50
	06/11/96	<0.5	<0.5	<0.5	<0.5	79
	10/02/96	<0.5	<0.5	<0.5	<0.5	<50
MW-8	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
	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
	04/07/94	<0.5	<0.5	<0.5	<0.5	<50
	06/07/94	<0.5	<0.5	<0.5	<0.5	<50
	09/28/94	<0.5	<0.5	<0.5	<0.5	<50
	12/14/94	<0.5	<0.5	<0.5	<0.5	<50
	03/15/95	<0.5	<0.5	<0.5	<0.5	<50
	06/13/95	<0.5	<0.5	<0.5	<0.5	<50

TABLE 2-Continued

GROUND WATER SAMPLE ANALYTICAL RESULTS

Concentrations in micrograms per liter ($\mu\text{g/L}$)

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

Monitoring Well	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH ^a as gasoline
	09/28/95	NS	NS	NS	NS	NS
	12/28/95	<0.5	<0.5	<0.5	<0.5	<50
	03/12/96	<0.5	<0.5	<0.5	<0.5	<50
	06/11/96	<0.5	<0.5	<0.5	<0.5	<50
	10/02/96	<0.5	<0.5	<0.5	<0.5	<50
MW-9	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
	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
	04/07/94	<0.5	<0.5	<0.5	<0.5	<50
	06/07/94	<0.5	<0.5	<0.5	<0.5	<50
	09/28/94	<0.5	<0.5	<0.5	<0.5	<50
	12/14/94	<0.5	<0.5	<0.5	<0.5	<50
	03/15/95	<0.5	<0.5	<0.5	<0.5	<50
	06/13/95	<0.5	<0.5	<0.5	<0.5	<50
	09/28/95	<0.5	<0.5	<0.5	<0.5	<50
	12/28/95	<0.5	<0.5	<0.5	<0.5	<50
	03/12/96	NS	NS	NS	NS	NS
	06/11/96	<0.5	<0.5	<0.5	<0.5	<50
	10/02/96	<0.5	<0.5	<0.5	<0.5	<50
MW-10	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 ^b	NS	NS	NS	NS
	04/07/94	6.4	2.9	150	4.7	4,000
	06/07/94	5.6	<2.5	150	5.7	6,700
	09/28/94	2.2	2.6	110	44	5,700
	12/14/94	<1.3	<1.3	77	27	3,500
	03/15/95	<5.0	6.7	150	23	7,200

TABLE 2-Continued

GROUND WATER SAMPLE ANALYTICAL RESULTS
Concentrations in micrograms per liter (µg/L)

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

Monitoring Well	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH ^a as gasoline
	06/13/95	9.0	48	610	130	8,400
	09/28/95	22	17	360	24	6,300
	12/28/95	4.4	5.6	340	11	5,000
	03/12/96	1.4	5.9	41	73	4,500
	06/11/96	<5.0	25	350	81	7,500
	10/02/96	18	<2.5	<2.5	<2.5	2,600
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
	04/07/94	<0.5	<0.5	<0.5	<0.5	500
	06/07/94	<0.5	<0.5	<0.5	0.64	560
	09/28/94	<0.5	<0.5	<0.5	<0.5	600
	12/14/94	<0.5	<0.5	<0.5	<0.5	340
	03/15/95	<0.5	<0.5	<0.5	<0.5	340
	06/13/95	<0.5	<0.5	<0.5	<0.5	210 ^c
	09/28/95	4.1	0.50	<0.5	<0.5	93
	12/28/95	<0.5	<0.5	<0.5	<0.5	380 ^c
	03/12/96	<0.5	<0.5	<0.5	<0.5	110
	06/11/96	<0.5	<0.5	<0.5	<0.5	400 ^c
	10/02/96	<0.5	<0.5	<0.5	<0.5	<50
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
	04/07/94	110	57	32	260	1,500
	06/07/94	130	51	45	180	1,700
	09/28/94	54	9.2	12	29	350
	12/14/94	6.8	2.1	1.2	3.4	79
	03/15/95	NS	NS	NS	NS	NS

TABLE 2-Continued

GROUND WATER SAMPLE ANALYTICAL RESULTS
 Concentrations in micrograms per liter ($\mu\text{g/L}$)

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

Monitoring <u>Well</u>	Date <u>Sampled</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl- benzene</u>	<u>Total Xylenes</u>	<u>TPH^a as gasoline</u>
	04/10/95	54	11	11	69	410
	06/13/95	1,600	780	340	1,400	8,200
	09/28/95	<0.5	<0.5	<0.5	<0.5	<50
	12/28/95	<0.5	<0.5	<0.5	<0.5	<50
	03/12/96	<0.5	<0.5	<0.5	<0.5	86
	06/11/96	38	11	4.7	50	230
	10/02/96	68	29	14	75	360

^a Total petroleum hydrocarbons.

^b Not sampled.

^c Product is not typical gasoline.

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	399,520
03/31/94	460,075
06/21/94	597,663
09/28/94	662,894
12/14/94	723,160
03/15/95	902,621
06/30/95	929,056
09/26/95	1,018,150
12/06/95	1,053,866
03/19/96	1,076,752 ^b
06/27/96	1,175,632 ^b
09/18/96	1,176,762 ^b

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

^b Flow meter changed out on 01/30/96; volume = reading of new meter + 1,067,852.

TABLE 4

GROUND WATER SYSTEM ANALYTICAL RESULTS

Concentrations in micrograms per liter ($\mu\text{g/L}$)

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

<u>Sample</u>	<u>Date</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl- benzene</u>	<u>Total Xylenes</u>	<u>TPH^a as gasoline</u>
Influent	12/14/94	<0.5	<0.5	<0.5	<0.5	<50
	03/22/95	<0.5	<0.5	<0.5	<0.5	<50
	04/10/95	3.9	0.57	0.65	5.5	<50
	06/13/95	NS ^b	NS	NS	NS	NS
	08/10/95	<0.5	<0.5	<0.5	<0.5	<50
	09/14/95	<0.5	<0.5	<0.5	<0.5	490 ^c
	12/06/95	<0.5	<0.5	<0.5	<0.5	<50
	01/30/96	<0.5	<0.5	<0.5	<0.5	<50
	02/27/96	<0.5	<0.5	<0.5	<0.5	<50
	03/12/96	<0.5	<0.5	<0.5	<0.5	<50
	04/16/96	<0.5	<0.5	<0.5	<0.5	<50
	05/07/96	<0.5	<0.5	<0.5	<0.5	<50
	06/11/96	2.4	0.57	5.9	2.8	190
	09/18/96	<0.5	<0.5	<0.5	<0.5	<50
Mid Carbon	12/14/94	<0.5	<0.5	<0.5	<0.5	<50
	03/22/95	<0.5	<0.5	<0.5	<0.5	<50
	04/10/95	<0.5	<0.5	<0.5	<0.5	<50
	06/13/95	NS	NS	NS	NS	NS
	08/10/95	<0.5	<0.5	<0.5	<0.5	<50
	09/14/95	<0.5	<0.5	<0.5	<0.5	<50
	12/06/95	<0.5	<0.5	<0.5	<0.5	<50
	01/30/96	<0.5	<0.5	<0.5	<0.5	<50
	02/27/96	<0.5	<0.5	<0.5	<0.5	<50
	03/12/96	<0.5	<0.5	<0.5	<0.5	<50
	04/16/96	<0.5	<0.5	<0.5	<0.5	<50
	05/07/96	<0.5	<0.5	<0.5	<0.5	<50
	06/11/96	<0.5	<0.5	<0.5	<0.5	<50
	09/18/96	<0.5	<0.5	<0.5	<0.5	<50
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
	04/07/94	<0.5	<0.5	<0.5	<0.5	<50
	05/18/94	<0.5	<0.5	<0.5	<0.5	<50
	09/28/94	NS	NS	NS	NS	NS
	12/14/94	<0.5	<0.5	<0.5	<0.5	<50
	03/22/95	<0.5	<0.5	<0.5	<0.5	<50

TABLE 4-Continued

GROUND WATER SYSTEM ANALYTICAL RESULTS
Concentrations in micrograms per liter ($\mu\text{g/L}$)

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

<u>Sample</u>	<u>Date</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl- benzene</u>	<u>Total Xylenes</u>	<u>TPH^a as gasoline</u>
	04/10/95	<0.5	<0.5	<0.5	<0.5	<50
	06/13/95	NS	NS	NS	NS	NS
	07/28/95	<0.5	<0.5	<0.5	<0.5	<50
	08/10/95	<0.5	<0.5	<0.5	<0.5	<50
	09/14/95	<0.5	<0.5	<0.5	<0.5	<50
	12/06/95	<0.5	<0.5	<0.5	<0.5	<50
	01/30/96	<0.5	<0.5	<0.5	<0.5	<50
	02/27/96	<0.5	<0.5	<0.5	<0.5	<50
	03/12/96	<0.5	<0.5	<0.5	<0.5	<50
	04/16/96	<0.5	<0.5	<0.5	<0.5	<50
	05/07/96	<0.5	<0.5	<0.5	<0.5	<50
	06/11/96	<0.5	<0.5	<0.5	<0.5	<50
	09/18/96	<0.5	<0.5	<0.5	<0.5	<50

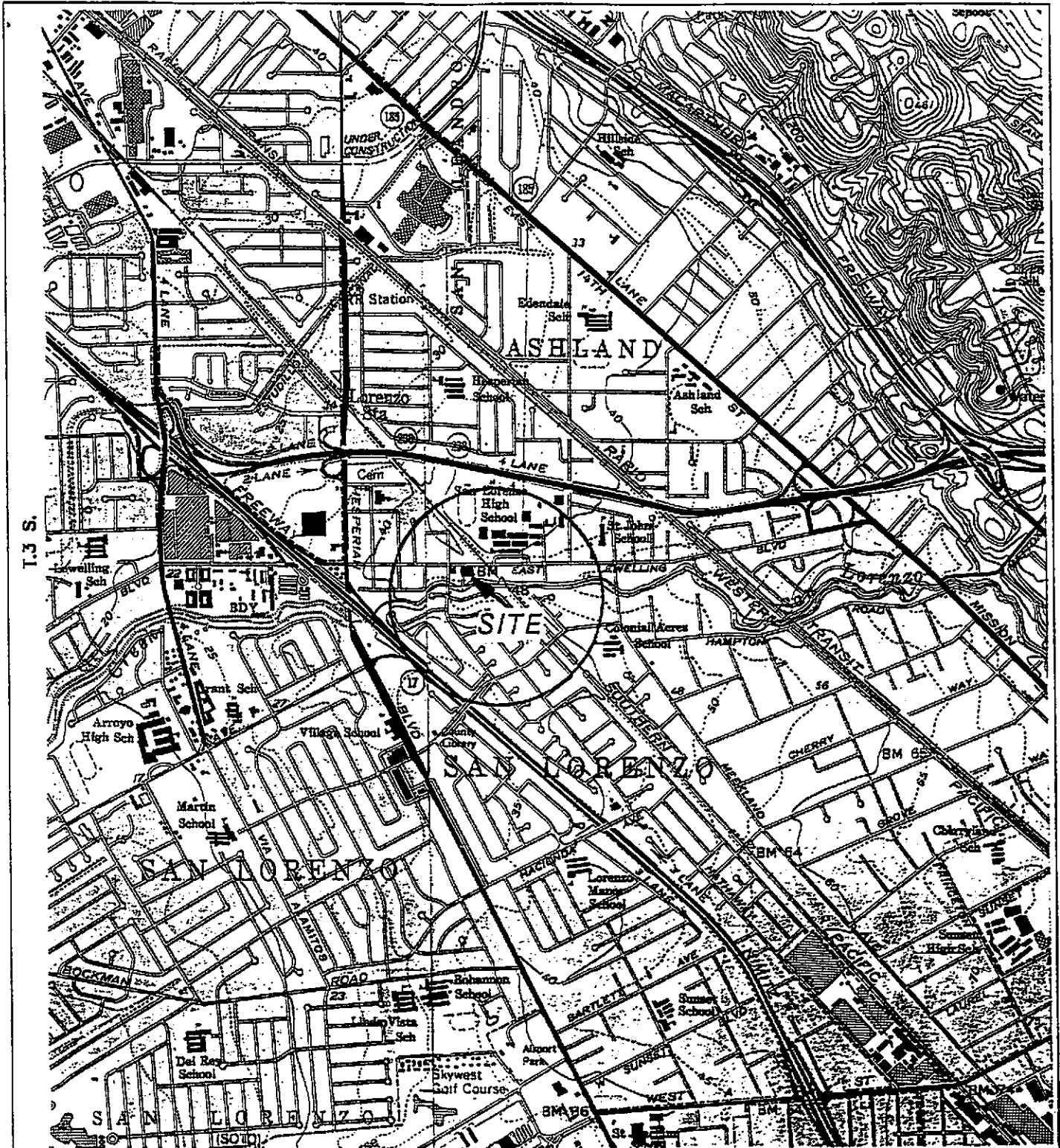
^a Total petroleum hydrocarbons.

^b Not sampled.

^c Not typical gasoline.

^d Methyl tertiary butyl ether.

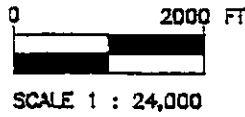
^e Not analyzed.



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



QUADRANGLE LOCATION



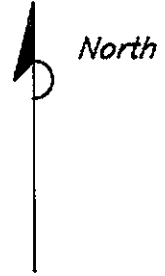
R.2 W.

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

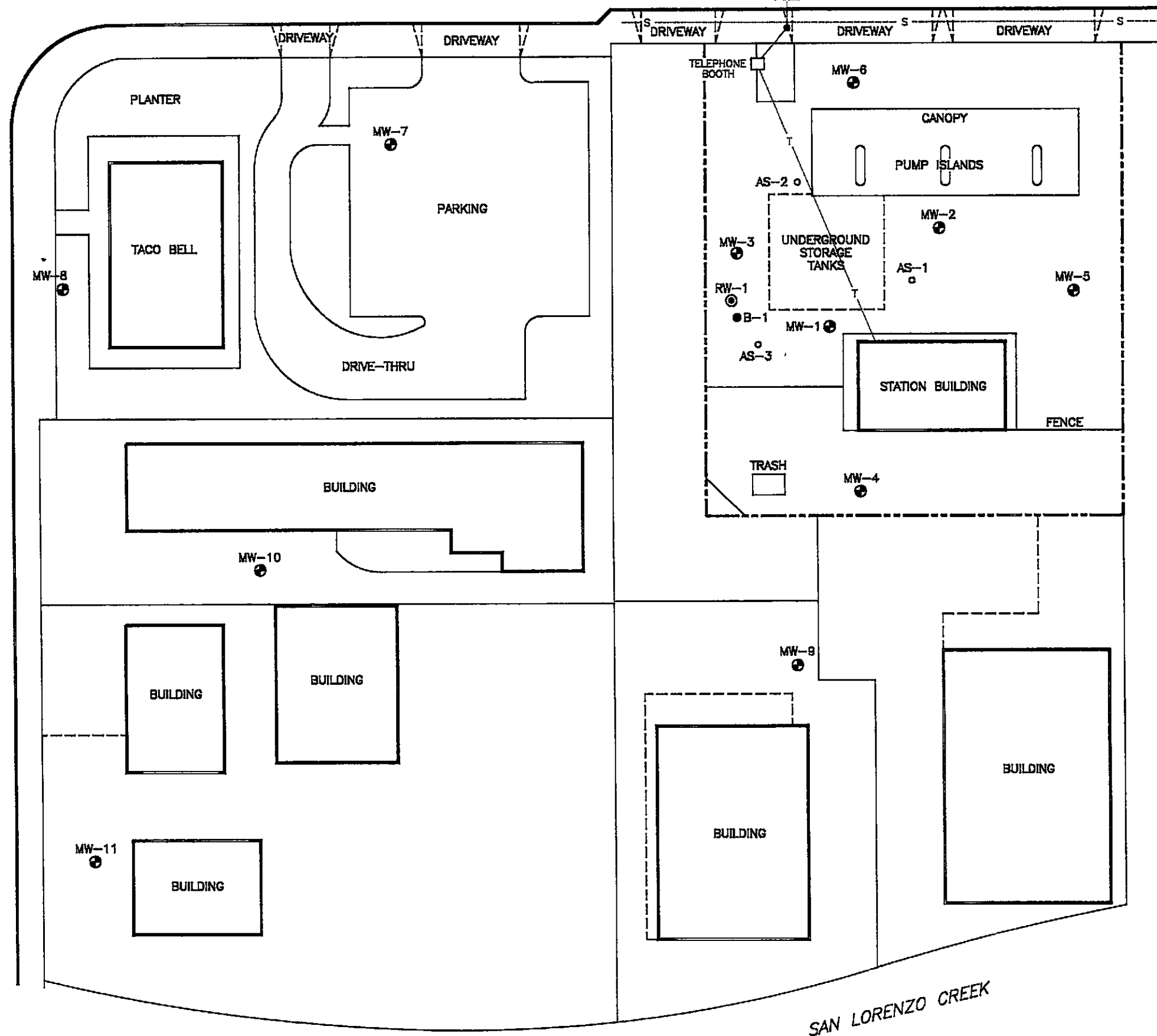
PROJECT NO. 40-93-936	DRAWN BY LH 11/2/92
FILE NO.	PREPARED BY TMG
REVISION NO. 1	REVIEWED BY [Signature]

**Delta Environmental
 Consultants, Inc.**

LEWELLING BOULEVARD



VIA GRANADA



- LEGEND:
- B-1 SOIL BORING LOCATION
 - ⊙ RW-1 RECOVERY WELL LOCATION
 - ⊕ MW-1 MONITORING WELL LOCATION
 - AS-1 AIR SPARGING WELL LOCATION

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

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

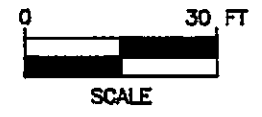
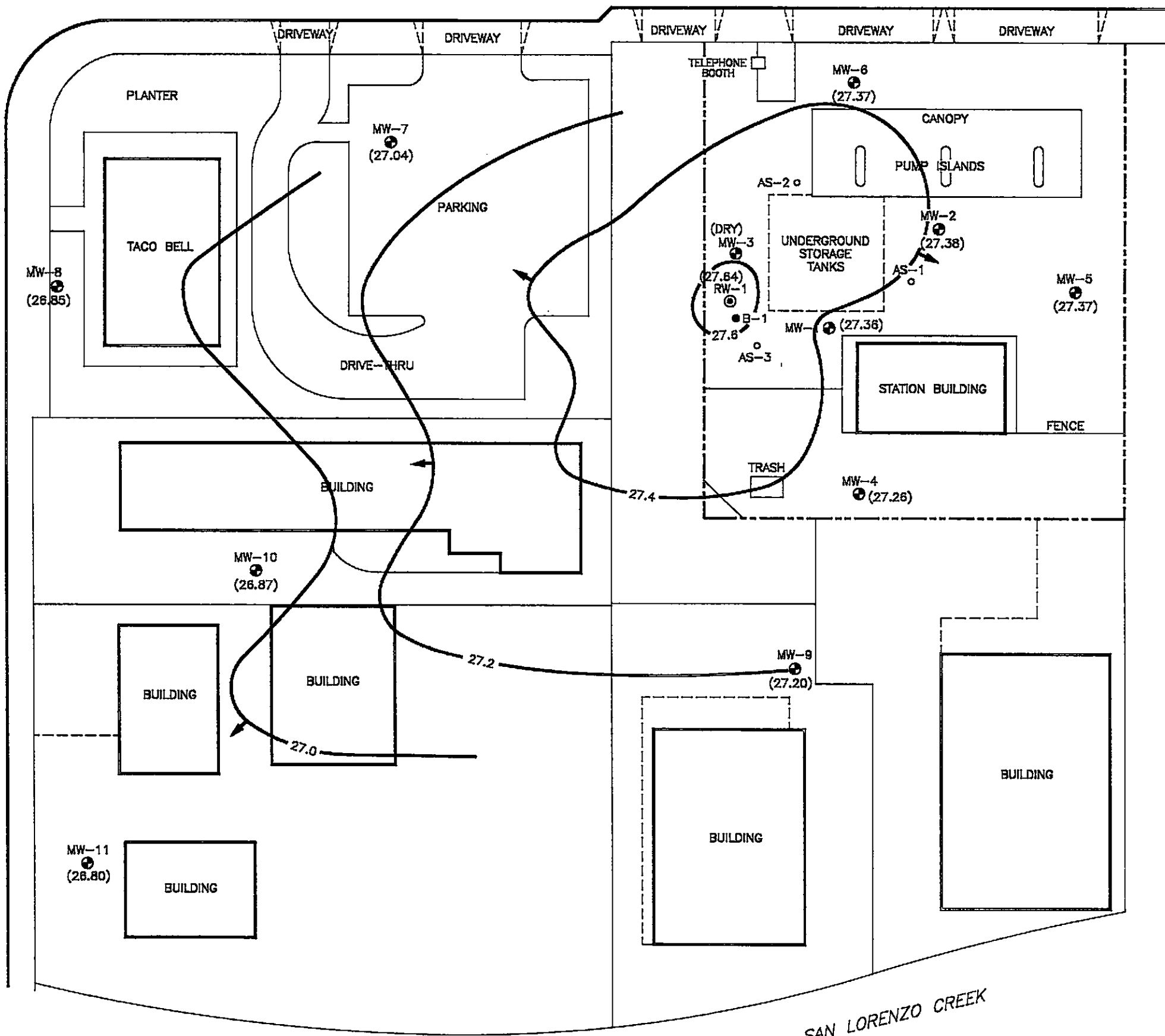
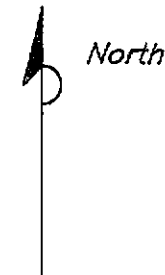


FIGURE 2
 SITE VICINITY MAP
 BEACON STATION NO. 721
 44 LEWELLING BOULEVARD
 SAN LORENZO, CA.

PROJECT NO. D083-936	DRAWN BY L.H. 10/12/85
FILE NO. 83-838-1	PREPARED BY JWS
REVISION NO. 3	REVIEWED BY <i>[Signature]</i>

Delta
Environmental
Consultants, Inc.

LEWELLING BOULEVARD



- LEGEND:
- B-1 SOIL BORING LOCATION
 - ⊙ RW-1 RECOVERY WELL LOCATION
 - ⊕ MW-1 MONITORING WELL LOCATION
 - AS-1 AIR SPARGING WELL LOCATION
 - (27.26) GROUND WATER ELEVATION ASSUMED RELATIVE TO MEAN SEA LEVEL
 - 27.4 — WATER TABLE CONTOUR ASSUMED RELATIVE TO MEAN SEA LEVEL
 - ← GROUND WATER FLOW DIRECTION

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

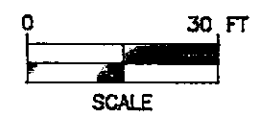


FIGURE 3
 WATER TABLE CONTOUR MAP - 10/2/96
 BEACON STATION NO. 721
 44 LEWELLING BOULEVARD
 SAN LORENZO, CA.

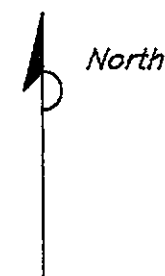
PROJECT NO. D083-938	DRAWN BY M.L. 10/30/96
FILE NO. 93-938-1	PREPARED BY WLB
REVISION NO. 2	REVIEWED BY <i>[Signature]</i>



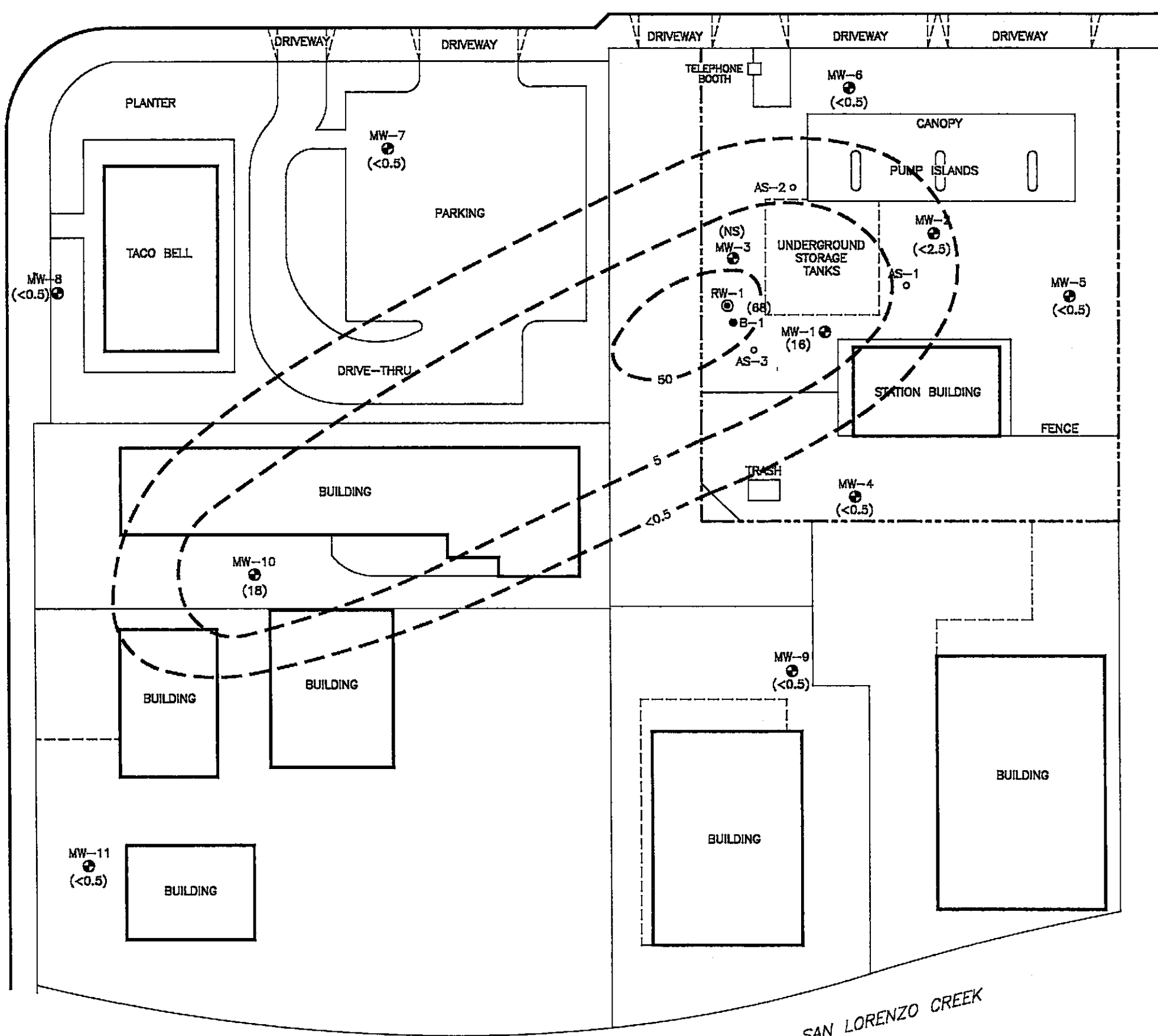
VIA GRANADA

SAN LORENZO CREEK

LEWELLING BOULEVARD



VIA GRANADA



LEGEND:

- B-1 SOIL BORING LOCATION
- ⊙ RW-1 RECOVERY WELL LOCATION
- ⊕ MW-1 MONITORING WELL LOCATION
- AS-1 AIR SPARGING WELL LOCATION
- (18) 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



FIGURE 4
 BENZENE ISOCONCENTRATION MAP
 10/2/96
 BEACON STATION NO. 721
 44 LEWELLING BOULEVARD
 SAN LORENZO, CA.

PROJECT NO. 0093-936	DRAWN BY M.L. 10/25/96
FILE NO. 93-936-1	PREPARED BY WLB
REVISION NO. 1	REVIEWED BY

SAN LORENZO CREEK

ENCLOSURE A

Field Methods and Procedures

FIELD METHODS AND PROCEDURES

1.0 GROUND WATER AND FREE-FLOATING PRODUCT DEPTH ASSESSMENT

A water/petroleum product interface probe was used to assess free product thickness and ground water depth in each well. If a free floating product layer was not measured 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 PURGING AND SAMPLING

Monitoring wells were purged using a centrifugal pump with new disposable tubing. Monitoring wells were sampled using new dedicated disposable bailers. Ground water removed from the wells was stored in 55-gallon barrels at the site. The purge water was treated by the remediation system. After pH, temperature, and conductivity were recorded during the purging of each well. After 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 document possession of the sample. 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



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: 10/2/96 Time: 12:10
 Wellhead assembly condition: X 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) 16.31 ft Date: 10/2/96 Time 11:02
 Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"
 Pumping method: Submersible pump Bailor X Casingless pump Other
 At least 4 well volumes have been evacuated before sampling.
 Tubing (type:). new or previously used) was used to pump well
 Sampling method: X Disposable bailer Sampling port
 Samples collected 2 VDA'S - BTEX TOUG Sample appearance CCl₄
 Note any sampling problems LOW

GROUND WATER EXHAUSTION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (micro/cm)	Water Level (feet ± 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
1203	79.5	7.44	0.66		0
1204	79.2	7.48	0.56		5
1205	80.1	7.79	0.56		9
					9

DD = 0.5 ppm

Refrigeration (thermal preservation) COOLER + ICE
 Form completed by: DL Sampled by: CG

SAMPLING INFORMATION SHEET



Deita
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: 10/2/1980 Time: 1155

Wellhead assembly condition: 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) 15.71 ft Date: 10/2/1980 Time 1100

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

Purging method: Submersible pump Bailor Cambridge pump Other

At least 4 well volumes have been swamped before sampling.

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

Sampling method: Disposable bailer Sampling port

Samples collected 2 VOA's - BTEX, TPH Sample appearance Cloudy

Note any sampling problems None

GROUND WATER EXHAUSTION/STABILIZATION DATA

Time	Temperature (°F)	FE Units	^{X1000} Consumption (gallons/min)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
1152	82.3	7.57	1.30		0
1153	81.0	7.60	1.29		5
1154	81.4	7.61	1.31		11
					11

Comments RD = 0.7 ppm

Temperature (thermal preservation) COOLER & ICE

Form completed by: [Signature]

Sampled by: [Signature]

SAMPLING INFORMATION SHEET



Delta
Environmental
Consultants, Inc.

Sample ID# MW-5 Project Name: REACON 721 Project No. D093-936

Location (address) 44 LEWELLING BLVD. SAN LORENZO CA

Date Sampled: 10/2/90 Time: 1145

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

Equipment Replaced: bolts locks locking cap

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

Depth to water (below top of casing) 16.42 ft Date: 10/2/90 Time 1052

Well Casing Volume Multiplier: 0.16 for 2", 0.55 for 4", 1.47 for 6"

Purging method: Submersible pump Boiler Cartridge pump Other

At least 4 well volumes have been evacuated before sampling.

Tubing (type: new or previously used) was used in purge well

Sampling method: Disposable bailer Sampling port

Samples collected 2 VOA's - BTEX; TPHs Sample appearance cloudy

Note any sampling problems None

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	¹⁰⁰⁰ Conductance (micro/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
1140	80.8	7.52	0.98		0
1142	80.8	7.57	0.93		4
1143	80.7	7.51	0.97		8
					8

Comments: DO = 2.5 ppm

Temperature (thermal protection) COOLAN 1/2

Form completed by: ly

Sampled by: ly

SAMPLING INFORMATION SHEET



Delta
Environmental
Consultants, Inc.

Sample ID# MW-6 Project Name: BEACON 21 Project No. D093-936

Location (address) 44 LEWISING BLDG. SAN LORENZO CA

Date Sampled: 10/2/96 Time: 1125

Wellhead assembly condition: 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) 15.10 ft Date: 10/2/96 Time 1056

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

Pumping method: Submersible pump Bailor Camouflaged pump Other

At least 7 well volumes have been evacuated before sampling.

Tubing (type: _____). (new or previously used) was used to pump well

Sampling method: Disposable bailer Sampling port

Samples collected 2 UOAs - BTEX, TPHs Sample appearance cloudy

Note any sampling problems None

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	^{X1000} Conductance (µmhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
1120	73.9	7.90	0.92		0
1122	73.9	7.75	0.97		4
1123	74.1	7.71	0.93		0

Comments DD = 1.9 ppb

Temperature (thermal preservation) Cooler & ice

Form completed by: [Signature]

Sampled by: [Signature]

SAMPLING INFORMATION SHEET



Delta
Environmental
Consultants, Inc.

Sample ID# MW-8 Project Name: BEACON 721 Project No. DD93-936

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

Date Sampled: 10/12/90 Time: 1015

Wellhead assembly condition: 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) 15.41 ft Date: 10/12/96 Time 1002

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

Purging method: Submersible pump Bailor Camming pump Other

At least 4 well volumes have been evacuated before sampling.

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

Sampling method: Disposable bailer Sampling port

Samples collected 2 VOA's - BTEX, TPH Sample appearance Cloudy

Note any sampling problems NONE

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductivity Conductivity (micro/cm)	Water Level (Normal 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
1007	79.1	8.14	0.53		0
1007	75.9	8.06	0.37		2
1009	75.7	8.07	0.35		5
					5

Comments DO = 0.4 ppm
Someone put a Bamboo stick inside well - Replaced cap & lock

Temperature (thermal preservation) COOLER & ICE

Form completed by: LA Sampled by: CA

SAMPLING INFORMATION SHEET



Delta
Environmental
Consultants, Inc.

Sample ID# MW-10 Project Name: BEACON 721 Project No. D093-936
 Location (address) 44 LEWELLING BLVD SAN LORENZO CA
 Date Sampled: 10/2/96 Time: 1000
 Weather assembly condition: 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) 15.47 ft Date: 10/2/96 Time 0947
 Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"
 Pumping method: Submersible pump Bailor Cammingal pump Other
 At least 4 well volumes have been evacuated before sampling.
 Tubing (type: _____). (new or previously used) was used to purge well
 Sampling method: Disposable bailor Sampling port
 Samples collected 2 VOA's - BTEX, TPH₃ Sample appearance cloudy
 Note any sampling problems none

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductivity ($\mu\text{mhos/cm}$)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
0952	71.8	8.29	0.86		0
0953	71.8	8.40	0.86		4
0955	71.8	8.42	0.86		9
					9

Comments DO = .5 ppm

Temperature (thermal preservation) COOLER & ICE
 Form completed by: LM Sampled by: LM

SAMPLING INFORMATION SHEET



Sample ID# MW-11 Project Name: BEACON 721 Project No. D093-936
 Location (address) 44 LEWELLING BLVD. SAN LORENZO CA
 Date Sampled: 10 12 1986 Time: 0930
 Wellhead assembly condition: 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) 18.20 ft Date: 10 12 1986 Time 1910
 Well Casing Volume Multiplier: 0.16 for 2", 0.65 for 4", 1.47 for 6"
 Purging method: Submersible pump Bailor Compressional pump Other
 At least 4 well volumes have been evacuated before sampling.
 Tubing (type: _____) (new or previously used) was used to purge well
 Sampling method: Disposable bailer Sampling port
 Samples collected 2 VOA's - BTEX, TPH Sample appearance Cloudy
 Note any sampling problems None

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pE Units	Conductance (umhos/cm)	Water Level (feet ± 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
0927	64.2	7.93	1.32		0
0928	64.3	8.04	1.33		4
0929	64.3	8.03	1.31		7
					7

Comments: DO = 1.6 ppm

Temperature (thermal preservation) COOLER & ICE
 Form completed by: [Signature] Sampled by: [Signature]

SAMPLING INFORMATION SHEET



Delta
Environmental
Consultants, Inc.

Sample ID# RW-1 Project Name: BEACON 721 Project No. D093-936
 Location (address) 44 LENEWING BLVD. SAN LORENZO, CA
 Date Sampled: 10/2/80 Time: 1300
 Wellhead assembly condition: Good Fair Poor (if poor, see comments)
 Equipment Replaced: bolts locks locking cap
 Well Depth 29.50 ft below top of casing Casing diameter _____ inches
 Depth to water (below top of casing) 15.53 ft Date: 10/2/80 Time 1102
 Well Casing Volume Multiplier: 0.16 for 2", 0.63 for 4", 1.47 for 6"
 Purging method: Submersible pump Bailor Centrifugal pump Other _____
 At least 4 well volumes have been evacuated before sampling.
 Tubing (type: _____) new or previously used) was used to purge well
 Sampling method: Disposable bailer Sampling port
 Samples collected _____ Sample appearance clear
 Note any sampling problems none

GROUND WATER EVACUATION/STABILIZATION DATA

Time	Temperature (°F)	pH Units	Conductance (µmhos/cm)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)
1231	80.9	7.72	1.01		10
1238	80.8	7.77	1.00		50
1245	80.9	7.72	0.97		80
					82

Comments: DO = 0.5 ppm

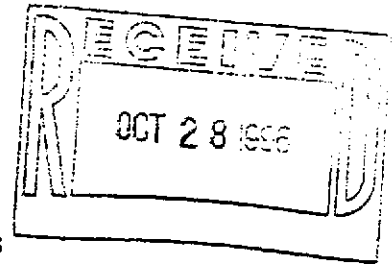
Transportation (thermal preservation) COOLER + ICE
 Form completed by: [Signature] Sampled by: [Signature]

ENCLOSURE C

Ground Water Sample Laboratory Report

October 15, 1996
Sample Log 15697

Owen Kittredge
Delta Environmental Consultants
3164 Gold Camp Drive, Suite 200
Rancho Cordova, CA 95670



Subject: Analytical Results for 11 Water Samples
Identified as: Beacon 721 (Proj. # D093-936)
Received: 10/03/96

Dear Mr. Kittredge:

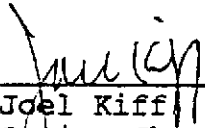
Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on October 15, 1996 and describes procedures used to analyze the samples.

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 15697

MTBE (Methyl-t-butyl ether) By EPA Method 8020/602

From : Beacon 721 (Proj. # D093-936)

Sampled : 10/02/96

Received : 10/03/96

Matrix : Water

MTBE	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
MW-11	(5.0)	<5.0
MW-10	(25)	<25
MW-8	(5.0)	<5.0
MW-7	(5.0)	26
MW-9	(5.0)	<5.0
MW-6	(5.0)	<5.0
MW-5	(5.0)	<5.0
MW-2	(250)	7900
RW-1	(5.0)	47
MW-4	(5.0)	<5.0
MW-1	(5.0)	11

Approved By:



Joel Kiff
Senior Chemist

Sample: MW-11

From : Beacon 721 (Proj. # DO93-936)

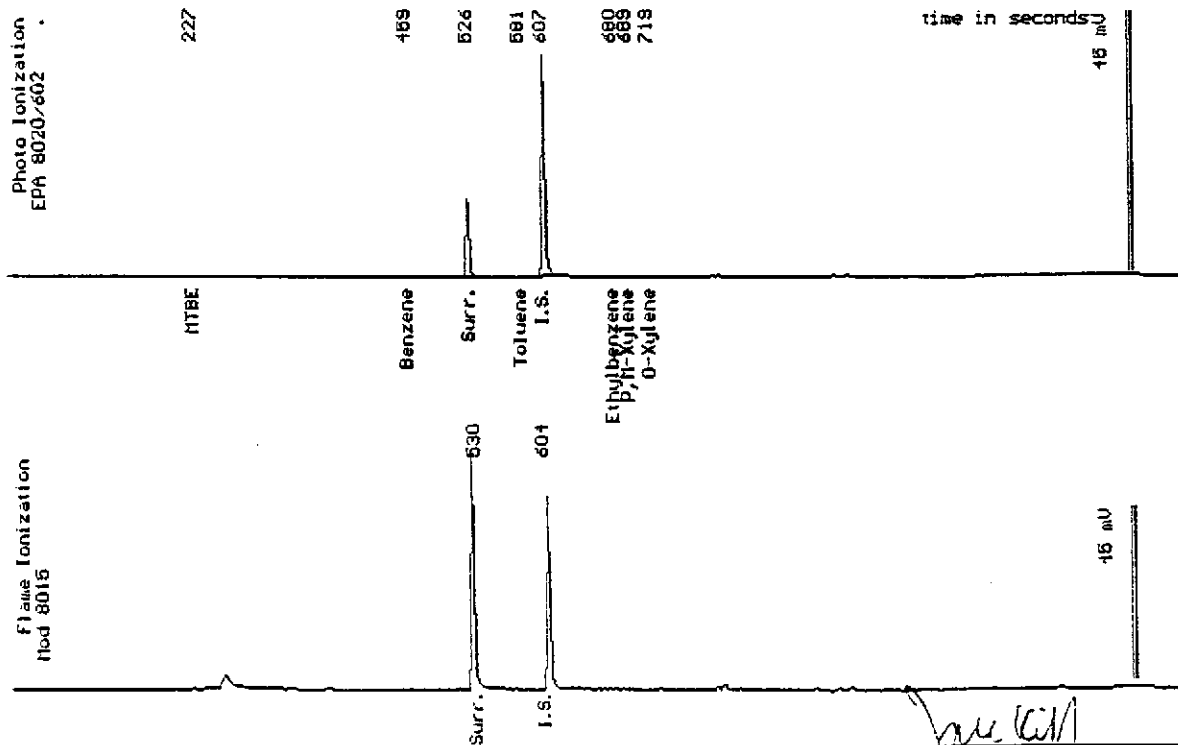
Sampled : 10/02/96

Dilution : 1:1

QC Batch : 6177S

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		106 %



Date Analyzed: 10-11-96
 Column : 0.53mm ID X 60m Restek Rtx-1701

Joel Kiff
 Joel Kiff
 Senior Chemist

Sample: MW-10

From : Beacon 721 (Proj. # D093-936)

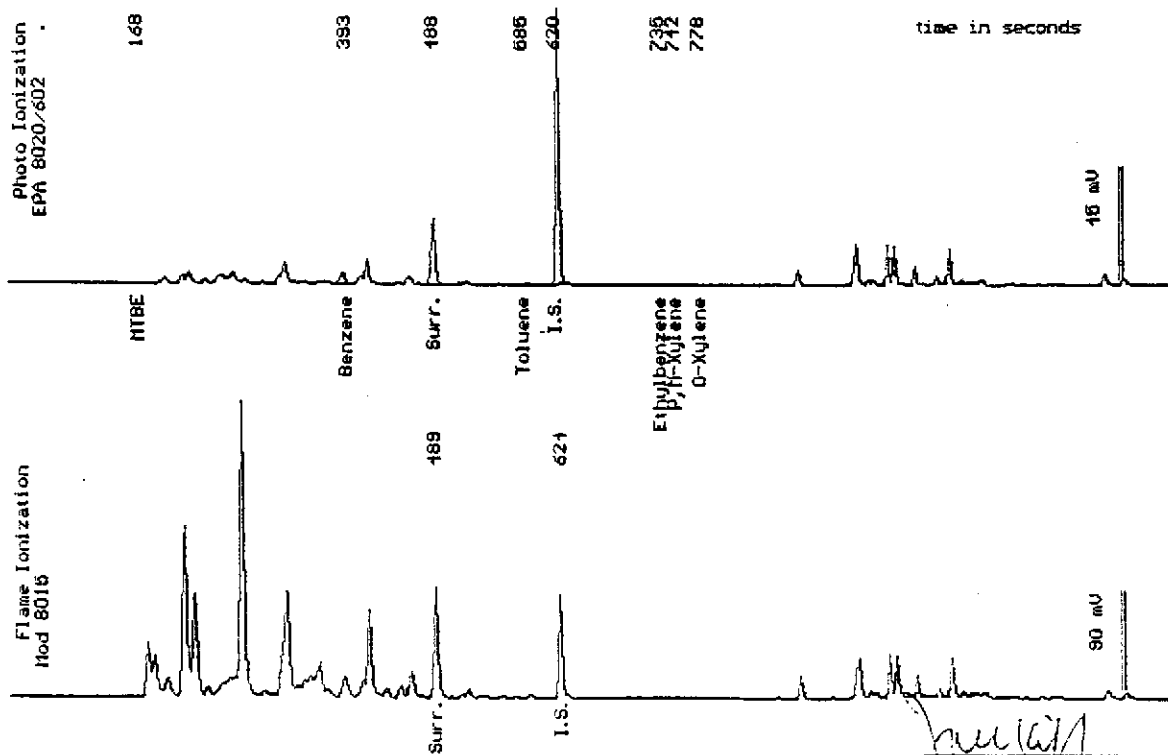
Sampled : 10/02/96

Dilution : 1:5

QC Batch : 4154F

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(2.5)	18
Toluene	(2.5)	<2.5
Ethylbenzene	(2.5)	<2.5
Total Xylenes	(2.5)	<2.5
TPH as Gasoline	(250)	2600
Surrogate Recovery		108 %



Date Analyzed: 10-14-96
 Column : 0.53mm ID X 60m Restek Rtx-1701

Joel Kiff
 Senior Chemist

Sample: MW-8

From : Beacon 721 (Proj. # D093-936)

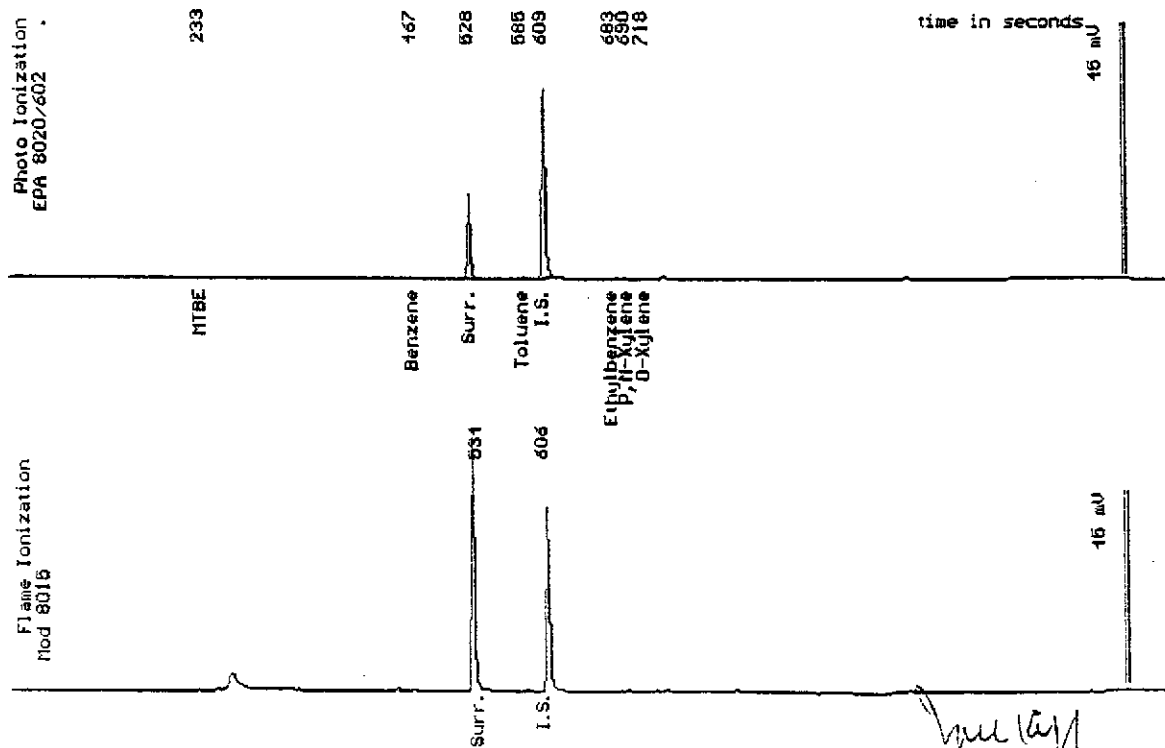
Sampled : 10/02/96

Dilution : 1:1

QC Batch : 6177S

Matrix : Water

Parameter	(MRL) <small>ug/L</small>	Measured Value <small>ug/L</small>
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		103 %



Date Analyzed: 10-11-96
 Column : 0.53mm ID X 50m Restek Rtx-1701

Joel Kiff
 Joel Kiff
 Senior Chemist

Sample: MW-7

From : Beacon 721 (Proj. # D093-936)

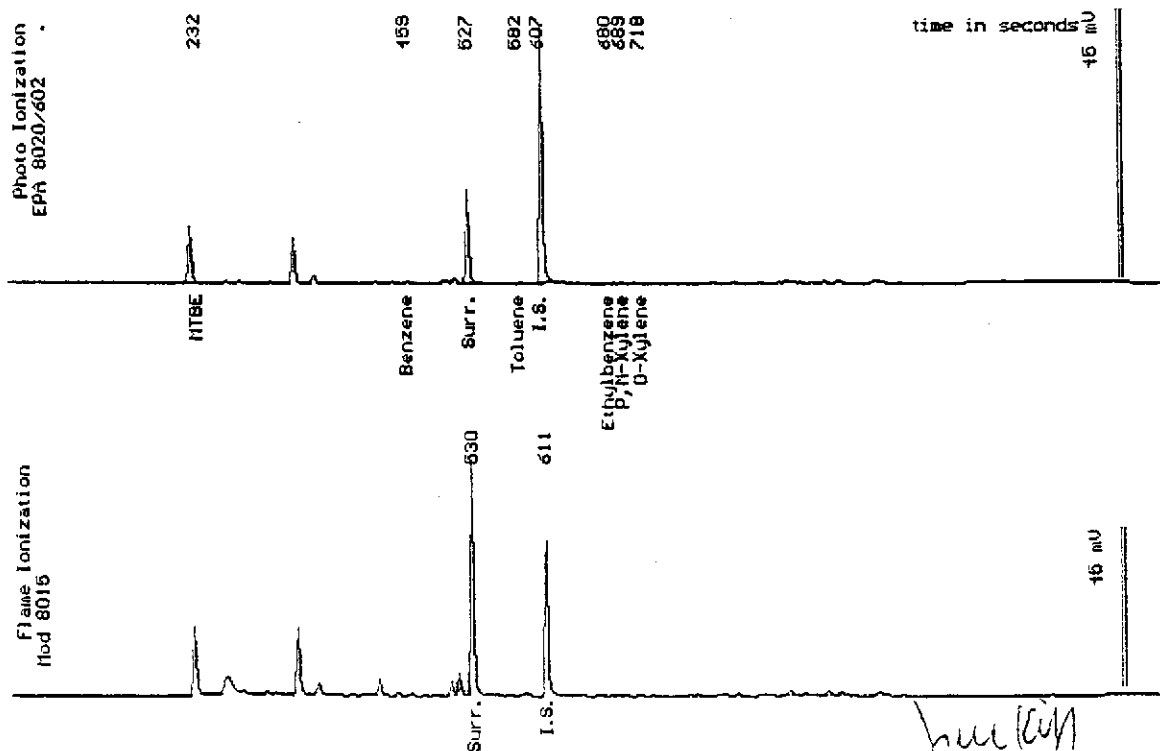
Sampled : 10/02/96

Dilution : 1:1

QC Batch : 6177S

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		102 %



Date Analyzed: 10-11-96
 Column : 0.53mm ID X 50m Restek Rtx-1701

Joel Kiff
 Joel Kiff
 Senior Chemist

Sample: MW-9

From : Beacon 721 (Proj. # D093-936)

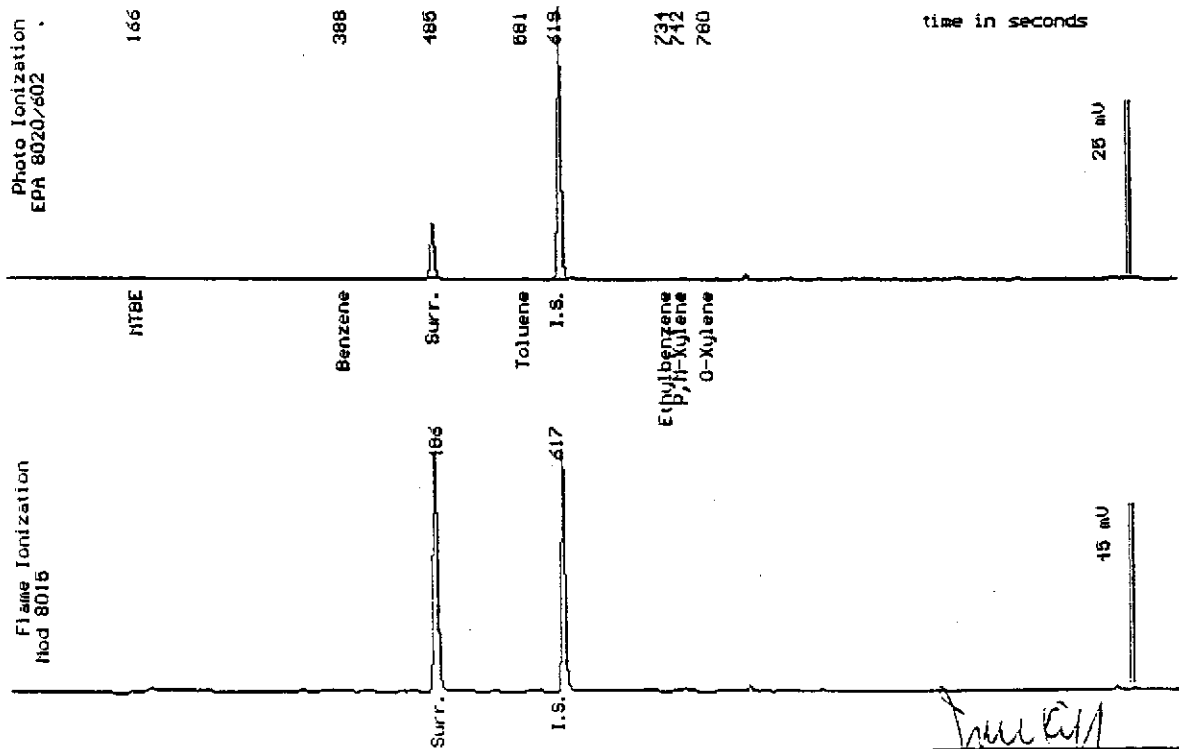
Sampled : 10/02/96

Dilution : 1:1

QC Batch : 4154E

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		94 %



Date Analyzed: 10-11-96
 Column : 0.53mm ID X 60m Restek Rtx-1701

Joel Kiff
 Joel Kiff
 Senior Chemist

Sample: MW-6

From : Beacon 721 (Proj. # D093-936)

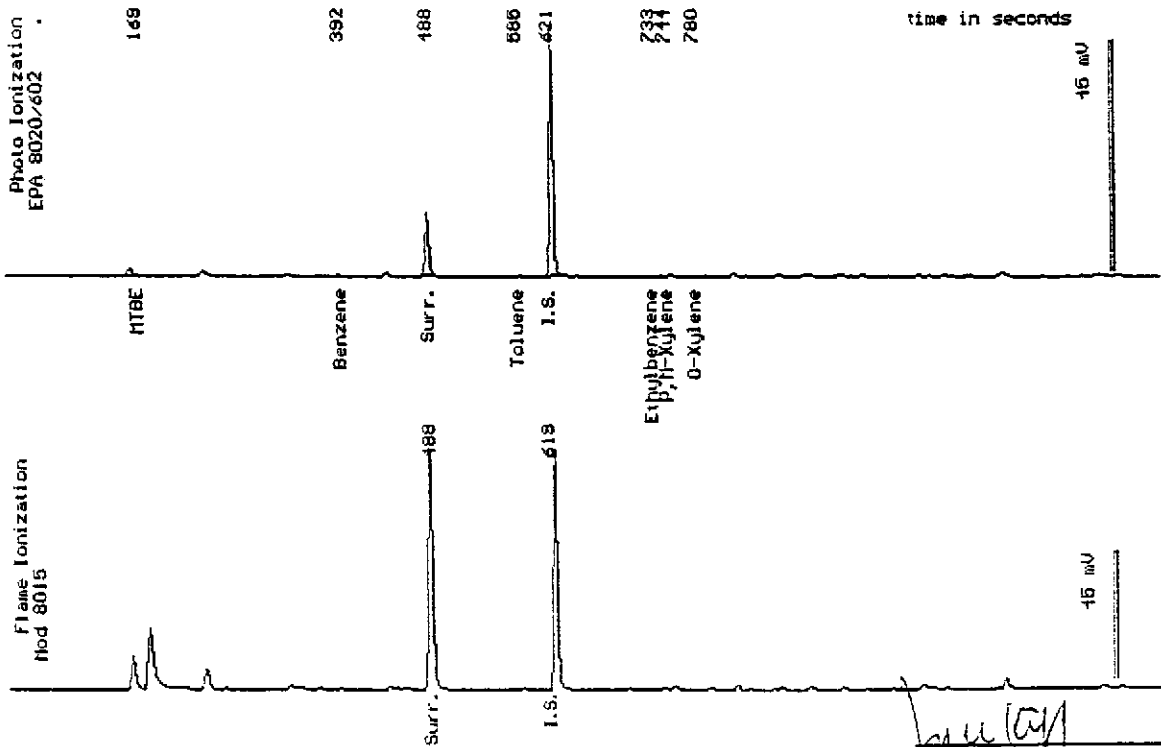
Sampled : 10/02/96

Dilution : 1:1

QC Batch : 4154E

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		98 %



Date Analyzed: 10-11-96
 Column : 0.33mm ID X 60m Restek Rtx-1701

Joel Kiff
 Joel Kiff
 Senior Chemist

Sample: MW-5

From : Beacon 721 (Proj. # D093-936)

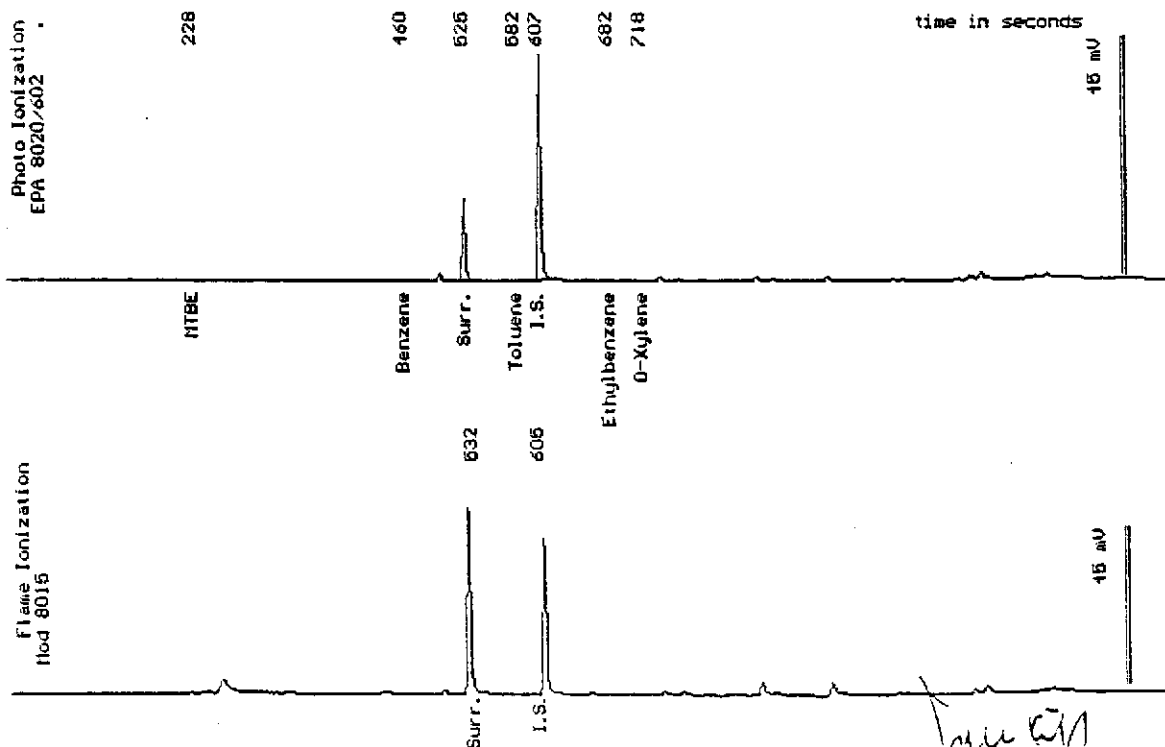
Sampled : 10/02/96

Dilution : 1:1

QC Batch : 6177S

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		101 %



Date Analyzed: 10-11-96
 Column : 0.53mm ID X 60m Restek Rtx-1701

Joel Kiff
 Joel Kiff
 Senior Chemist

Sample: MW-2

From : Beacon 721 (Proj. # D093-936)

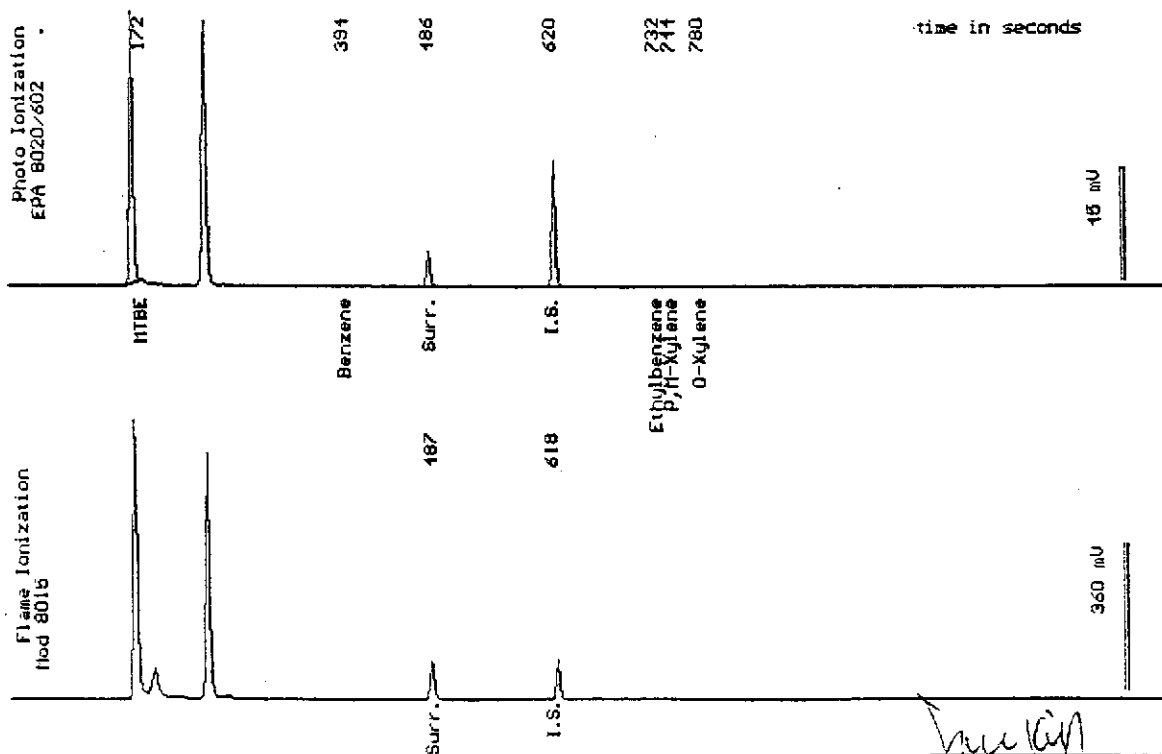
Sampled : 10/02/96

Dilution : 1:5

QC Batch : 4154E

Matrix : Water

Parameter	(MRL) <small>ug/L</small>	Measured Value <small>ug/L</small>
Benzene	(2.5)	<2.5
Toluene	(2.5)	<2.5
Ethylbenzene	(2.5)	<2.5
Total Xylenes	(2.5)	<2.5
TPH as Gasoline	(250)	2800
Surrogate Recovery		103 %



Date Analyzed: 10-11-96
 Column : 0.53mm ID X 60m Restek Rtx-1701

Joel Kiff
 Joel Kiff
 Senior Chemist

Sample: RW-1

From : Beacon 721 (Proj. # D093-936)

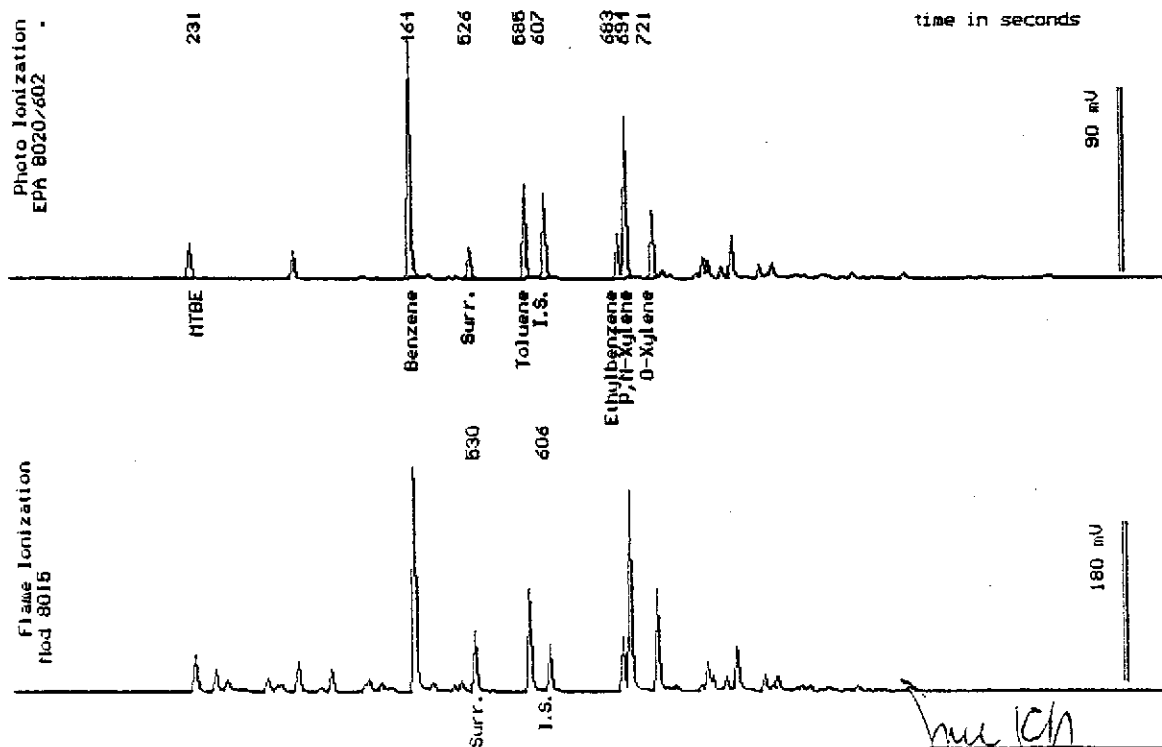
Sampled : 10/02/96

Dilution : 1:1

QC Batch : 6177S

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	68
Toluene	(.50)	29
Ethylbenzene	(.50)	14
Total Xylenes	(.50)	75
TPH as Gasoline	(50)	360
Surrogate Recovery		105 %



Date Analyzed: 10-11-96
 Column : 0.53mm ID X 60m Restek Rtx-1701

Joel Kiff
 Joel Kiff
 Senior Chemist

Sample: MW-4

From : Beacon 721 (Proj. # D093-936)

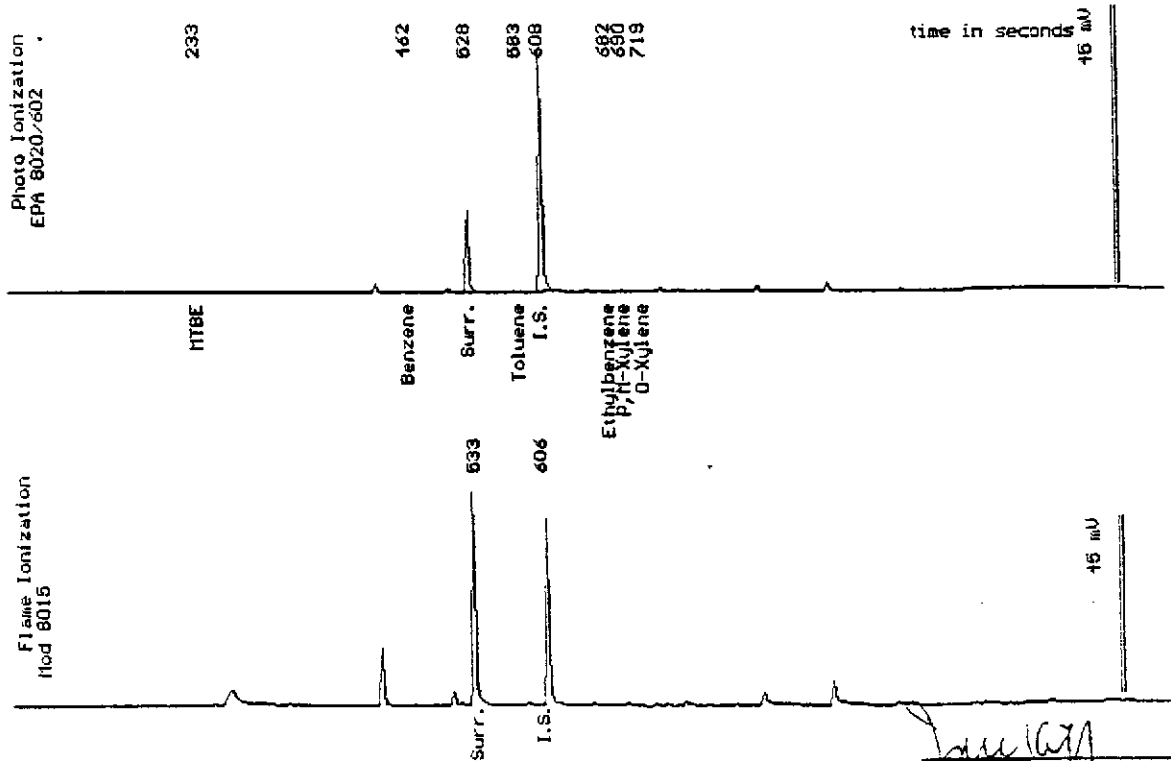
Sampled : 10/02/96

Dilution : 1:1

QC Batch : 6177S

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		101 %



Date Analyzed: 10-11-96
 Column : 0.53mm ID X 60m Restek Rtx-1701

Joel Kiff
 Joel Kiff
 Senior Chemist

Sample: MW-1

From : Beacon 721 (Proj. # D093-936)

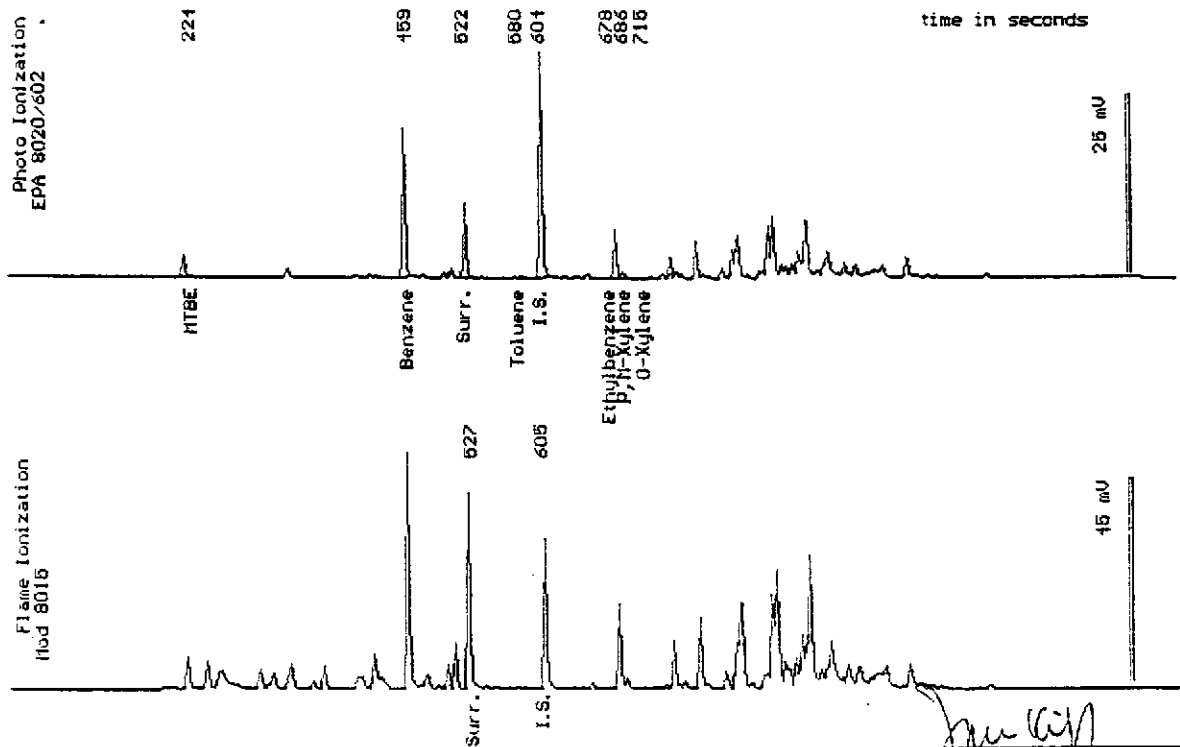
Sampled : 10/02/96

Dilution : 1:1

QC Batch : 6177S

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	16
Toluene	(.50)	<.50
Ethylbenzene	(.50)	6.0
Total Xylenes	(.50)	.92
TPH as Gasoline	(50)	210
Surrogate Recovery		93 %



Date Analyzed: 10-11-96
 Column : 0.53mm ID X 50m Restek Rtx-1701

Joel Kiff
 Joel Kiff
 Senior Chemist



Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. <i>721</i>	Sampler (Print Name) <i>Jay Stump</i>			ANALYSES				Date <i>10-2-96</i>	Form No. <i>1012</i>
Project No. <i>D073-936</i>	Sampler (Signature) <i>[Signature]</i>							No. of Containers <i>2</i>	
Project Location <i>San Lorenzo</i>	Affiliation <i>Delta</i>			BTEX	TPH (gasoline)	TPH (diesel)			
Sample No./Identification	Date	Time	Lab No.	BTEX	TPH (gasoline)	TPH (diesel)			
<i>MW-11</i>	<i>10-2-96</i>	<i>0930</i>	<i>15697-01</i>	✓	✓	✓			
<i>MW-10</i>	↓	<i>1000</i>	<i>02</i>	✓	✓	✓			
<i>MW-8</i>		<i>1015</i>	<i>03</i>	✓	✓	✓			
<i>MW-7</i>		<i>1035</i>	<i>04</i>	✓	✓	✓			
<i>MW-9</i>		<i>1045</i>	<i>05</i>	✓	✓	✓			
<i>MW-6</i>		<i>1125</i>	<i>06</i>	✓	✓	✓			
<i>MW-5</i>		<i>1145</i>	<i>07</i>	✓	✓	✓			
<i>MW-2</i>		<i>1155</i>	<i>08</i>	✓	✓	✓			
Relinquished by: (Signature/Affiliation) <i>[Signature] Delta</i>		Date <i>10-3-96</i>	Time <i>1625</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>				Date	Time
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation)				Date	Time
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation) <i>John [Signature]</i>				Date <i>10/3/96</i>	Time <i>1625</i>
Report To: <i>Awen K. Hridge - Delta</i>				Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: <i>T. FOX</i>					

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Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. 721		Sampler (Print Name) Jan Staops			ANALYSES							Date 10-2-96	Form No. 2 of 7																								
Project No. D093-936		Sampler (Signature) <i>[Signature]</i>										<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (gasoline)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (diesel)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td style="writing-mode: vertical-rl; transform: rotate(180deg);">No. of Containers</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>							BTEX	TPH (gasoline)	TPH (diesel)									No. of Containers							
BTEX	TPH (gasoline)	TPH (diesel)									No. of Containers																										
Project Location San Lorenzo		Affiliation Delta			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">REMARKS</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>							REMARKS																								Standard T.M.T	
REMARKS																																					
Sample No./Identification		Date	Time	Lab No.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (gasoline)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (diesel)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td style="writing-mode: vertical-rl; transform: rotate(180deg);">No. of Containers</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>							BTEX	TPH (gasoline)	TPH (diesel)									No. of Containers														
BTEX	TPH (gasoline)	TPH (diesel)																No. of Containers																			
LW-1		10-2-96	1700	15697-09	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (gasoline)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (diesel)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td style="writing-mode: vertical-rl; transform: rotate(180deg);">No. of Containers</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>							BTEX	TPH (gasoline)	TPH (diesel)									No. of Containers													2	
BTEX	TPH (gasoline)	TPH (diesel)																No. of Containers																			
MW-4		↓	1315	10	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (gasoline)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (diesel)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td style="writing-mode: vertical-rl; transform: rotate(180deg);">No. of Containers</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>							BTEX	TPH (gasoline)	TPH (diesel)									No. of Containers													7	
BTEX	TPH (gasoline)	TPH (diesel)																No. of Containers																			
MW-1		↓	1210	11	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (gasoline)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (diesel)</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td style="writing-mode: vertical-rl; transform: rotate(180deg);">No. of Containers</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>							BTEX	TPH (gasoline)	TPH (diesel)									No. of Containers													2	
BTEX	TPH (gasoline)	TPH (diesel)																No. of Containers																			
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation)							Date	Time																									
<i>[Signature]</i> Delta		10-3-96	1625	<i>[Signature]</i>																																	
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation)							Date	Time																									
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation)							Date	Time																									
Report To: Over K. Hodge - Delta				Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: T. Fox							<i>[Signature]</i> 10/3/96 1625																										

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ENCLOSURE D

Remediation System Analytical Results

WEST LABORATORY

September 25, 1996
Sample Log 15572

Owen Kittredge
Delta Environmental Consultants
3164 Gold Camp Drive, Suite 200
Rancho Cordova, CA 95670

Subject: Analytical Results for 3 Water Samples
Identified as: Beacon 721 (Proj. # D093-936)
Received: 09/18/96

Dear Mr. Kittredge:

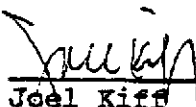
Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on September 25, 1996 and describes procedures used to analyze the samples.

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)
"Total Suspended Solids" (EPA 160.2)

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

WEST LABORATORY

Sample Log 15572

15572-03

Sample: influent

From : Beacon 721 (Proj. # D093-936)

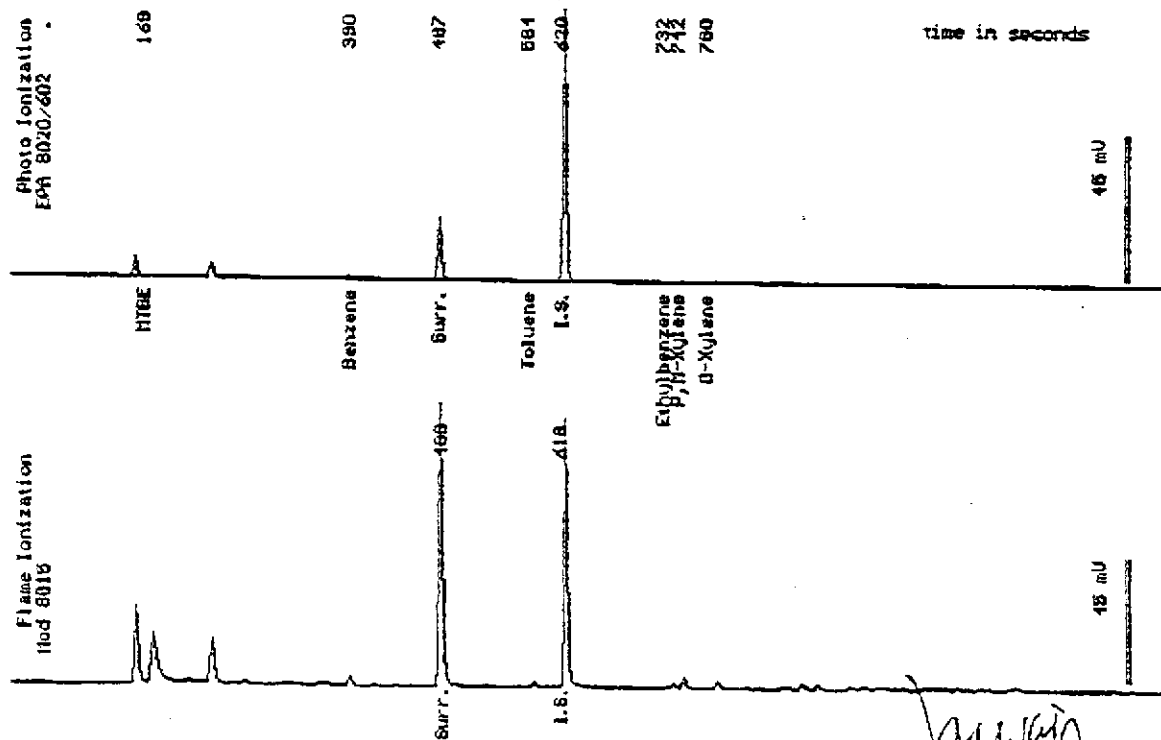
Sampled : 09/18/96

Dilution : 1:1

QC Batch : 4153D

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		100 %



Date Analyzed: 09-24-96
 Column : 0.53mm ID X 50m Restek Rt-1701

Joel Kiff
 Senior Chemist

WEST LABORATORY

Sample Log 15572
15572-02

Sample: MID

From : Beacon 721 (Proj. # DO93-936)

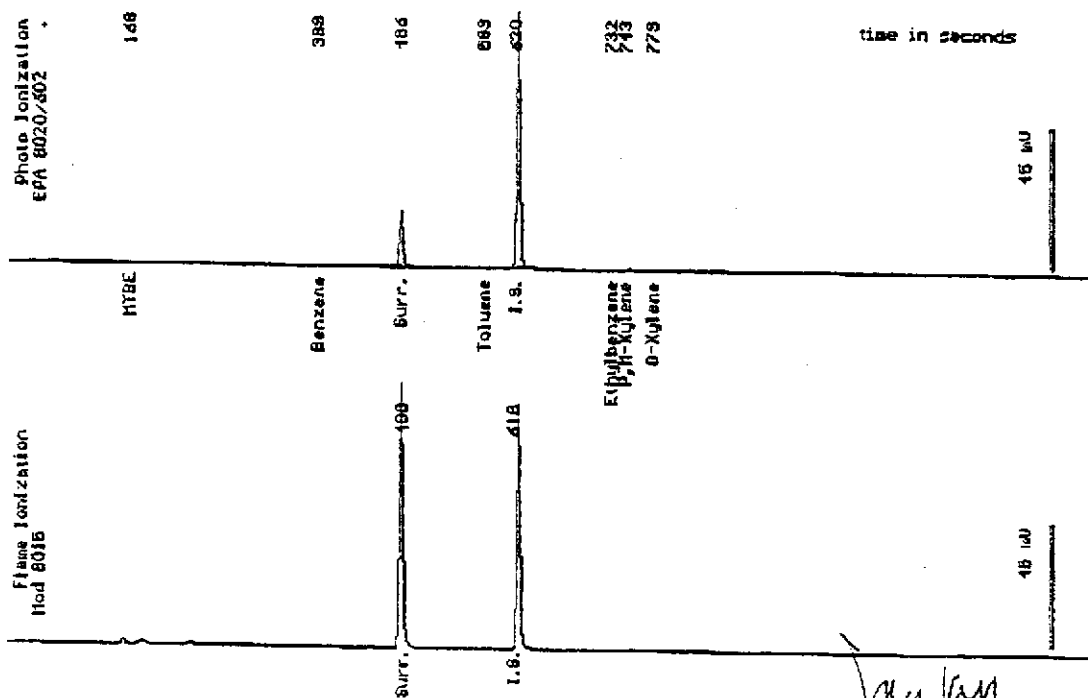
Sampled : 09/18/96

Dilution : 1:1

Matrix : Water

QC Batch : 4153D

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		97 %



Date Analyzed: 09-24-96
Column : 0.53mm ID X 60m Restek Rtx-1701

Joel Kiff
Joel Kiff
Senior Chemist

WEST LABORATORY

Sample Log 15572

15572-01

Sample: effluent

From : Beacon 721 (Proj. # D093-936)

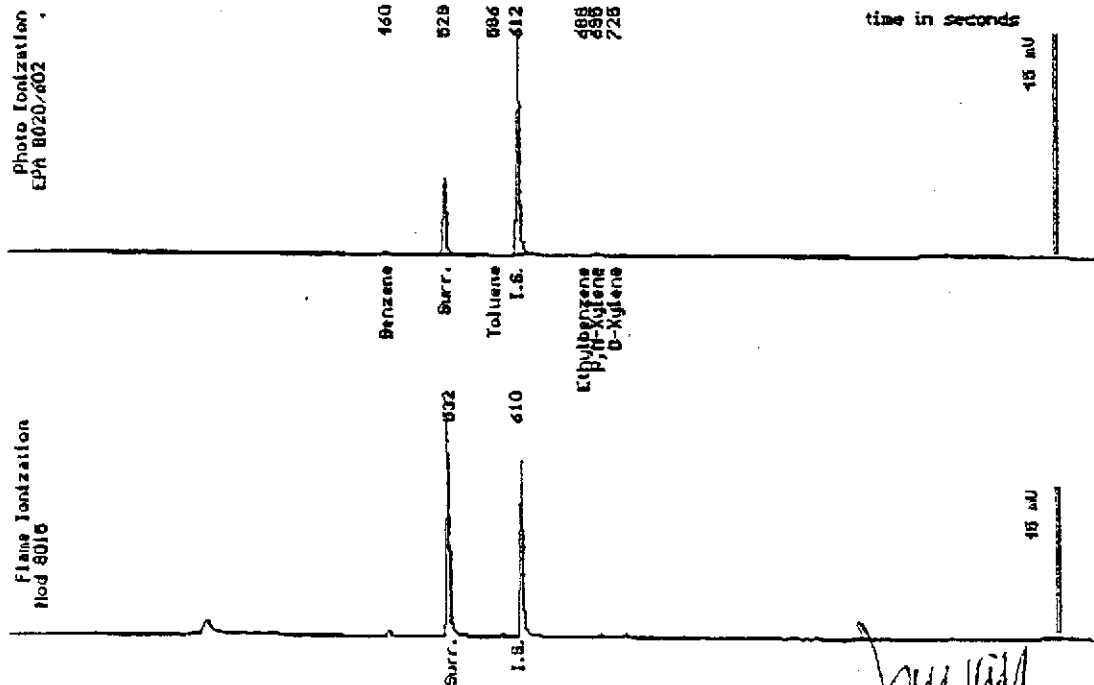
Sampled : 09/18/96

Dilution : 1:1

QC Batch : 6176V

Matrix : Water

Parameter	(MRL) <small>ug/L</small>	Measured Value <small>ug/L</small>
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		111 %



Date Analyzed: 09-24-96
 Column : 0.15mm ID X 30m DB624 (J&W Scientific)

[Signature]
 J. Paul Kitt
 Senior Chemist

WEST LABORATORY

Sample Log 15572

MTBE (Methyl-t-butyl ether) By EPA Method 8020/602

From : Beacon 721 (Proj. # D093-936)

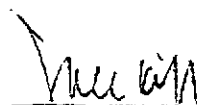
Sampled : 09/18/96

Received : 09/18/96

Matrix : Water

MTBE	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
effluent	(5.0)	<5.0
MID	(5.0)	<5.0
influent	(5.0)	11

Approved By:



Joel Kiff
Senior Chemist

WEST LABORATORY

September 23, 1996
Sample Log 15572

From : Beacon 721 (Project # D093-936)
Date Sampled : 09/18/96
Matrix : Water
Duplicate Sample : 15583-01

Date Received : 09/18/96
Units : mg/L

Total Suspended Solids EPA Method 160.2

West ID	Sample ID	Result	MRL	Blank	% RPD	Date Analyzed
15572-01	effluent	<3.0	3.0	<3.0	9	09/20/96

MRL = Method Reporting Limit

RPD = Relative Percent Difference between a sample and its duplicate.

The RPD Limits are $\pm 20\%$.



Michelle L. Anderson
Inorganics Supervisor



Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. 721		Sampler (Print Name) Martin W. Morgan			ANALYSES					Date 9/18/96	Form No. / of 1	
Project No. D093-936		Sampler (Signature) <i>M.W. Morgan</i>			BTEX	TPH (gasoline)	TPH (diesel)	COD	TSS	No. of Containers	WEST Labs 916 753 9500	
Project Location San Lorenzo, CA		Affiliation Delta Env. Cons.									Standard Turn	
Sample No./Identification		Date	Time	Lab No.							REMARKS	
effluent		9/18/96	0753	15572-01	X	X	X	X		4		
MID		9/18/96	0755	02	X	X				2		
influent		9/18/96	0757	03	X	X				2		
Relinquished by: (Signature/Affiliation) <i>M.W. Morgan / Delta</i>		Date 9/18/96	Time 1205	Received by: (Signature/Affiliation) <i>John Mast</i>					Date 9/18/96	Time 1205		
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation)					Date	Time		
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation)					Date	Time		
Report To: Owen Kittredge				Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: Terry Fox								
916 638 2085 Fax 8385												

WHITE: Return to Client with Report

YELLOW: Laboratory Copy

PINK: Originator Copy