



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

✓ At 2/17/96
Note: MTB results
included
Telecopy: 209-585-5685 Credit
209-583-3330 Administrative
209-583-3302 Information Services
209-583-3358 Accounting

June 12, 1996

ENVIRONMENTAL
PROTECTION
96 JUN 14 PM 3:29

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, First Quarter 1996 and Status of Remediation System from December 29, 1995 through March 1996** 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.

Please call if you have any questions regarding this project.

Sincerely,

ULTRAMAR INC.

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: June 10, 1996
QUARTER ENDING: March 31, 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 March 12, 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-11 and RW-1. MW-9, which was not detected for benzene last quarter, was not sampled this quarter. The benzene concentration decreased in MW-1 from 4.9 ppb to not detected, in MW-2 from 9.5 ppb to not detected, and in MW-10 from 4.4 ppb to 1.4 ppb. The benzene concentration increased in MW-3 from 32 ppb to 48 ppb.

As of March 19, 1996, approximately 1,076,752 gallons of ground water have been removed, treated, and discharged. Reportedly, approximately 98 gallons (627 pounds) 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 remediation system.	Ongoing



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

ENVIRO PROTECTION
96 JUN 14 PM 3:29

June 6, 1996

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

Subject: *Quarterly Ground Water Monitoring Report, First Quarter 1996,
and Status of Remediation System from December 29, 1995 through March 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 March 12, 1996, and the remediation system status from December 29, 1995 through March 19, 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-8, MW-10, MW-11, and one ground water recovery well RW-1. MW-9 was not accessible due to a car parked over it. Methods used to perform these tasks are described in Enclosure A.

Ground Water Table Measurements and Flow Direction

Ground water was present in all of the monitoring wells and RW-1 at depths ranging from 11.02 (RW-1) to 15.89 (MW-11) feet below the tops of well casings. Ground water elevations have increased an average of approximately 3 feet since the last quarterly monitoring event in December 1995. Cumulative ground water table measurements at the site are compiled in Table 1. Based on the ground water table measurements, ground water was mounded around RW-1, probably due to soil vapor extraction and air sparging systems operating during ground water measurements. 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.

Mr. Terrence A. Fox
Ultramar Inc.
June 6, 1996
Page 2

Ground Water Analytical Results

Ground water samples were collected from all of the monitoring wells (with the exception of MW-9) and RW-1. 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 concentrations were reported below laboratory detection limits in ground water samples collected from MW-1, MW-2, MW-4 through MW-8, and MW-11, and RW-1. Detectable benzene concentrations ranged from 1.4 micrograms per liter ($\mu\text{g}/\text{L}$) in MW-10 to 48 $\mu\text{g}/\text{L}$ in MW-3. Using the March 1996 ground water analytical data, a benzene isoconcentration contour map was constructed and is included as Figure 4. Cumulative ground water analytical results 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 March 19, 1996, the data indicated that the soil vapor extraction system had removed approximately 98 gallons of vapor equivalent gasoline.

An air sparging system was installed by Delta at the site in December 1995. Air is sparged into air sparging 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 March 19, 1996, the ground water remediation system had discharged approximately 1,076,752 gallons of treated ground water to the sewer. Cumulative totals for ground water treated and discharged to the sewer are presented in Table 3.

Ground Water Remediation System Analytical Results

Ground water remediation system samples were collected on January 30, February 27, and March 12, 1996, and submitted to West laboratory to be analyzed for BTEX, MTBE, and TPH as gasoline using the previously 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. The analytical results for BTEX and TPH as gasoline are summarized in Table 4. Copies of the analytical reports are presented in Enclosure D.

Mr. Terrence A. Fox
Ultramar Inc.
June 6, 1996
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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. Amy Leech
Alameda County Environmental
Health Dept.
470 27th Street, Room 322
Oakland, California 94612

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

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.



Steven W. Meeks
Project Engineer



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

JWS (LRP199.CAC)
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	
	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
MW-2	12/28/95		17.28	26.39	No free product or sheen
	03/12/96		14.13	29.54	No free product or sheen
	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

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>
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	
	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
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

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>
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	
	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
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

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>
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	
	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
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

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>
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
	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
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

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>
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	
	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
RW-1	12/28/95		18.31	26.69	No free product or sheen
	03/12/96		15.89	29.11	No free product or sheen
	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

^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 <u>Well</u>	<u>Date Sampled</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Total Xylenes</u>	<u>TPH^a as gasoline</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
	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
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

ANALYTICAL RESULTS OF GROUND WATER SAMPLES

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

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

Monitoring <u>Well</u>	<u>Date Sampled</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	Total <u>Xylenes</u>	TPH ^a as <u>gasoline</u>
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
	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
MW-4	12/28/95	32	5.8	18	4,700	16,000
	03/12/96	48	64	5.3	630	2,400
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 ^c
	09/28/95	<0.5	<0.5	<0.5	<0.5	140 ^c
	12/28/95	<0.5	<0.5	<0.5	<0.5	510 ^c
	03/12/96	<0.5	<0.5	<0.5	<0.5	<50

TABLE 2-Continued

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

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>Total Xylenes</u>	<u>TPH^a as gasoline</u>
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
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
	12/28/95	<0.5	<0.5	<0.5	6.3	410
	03/12/96	<0.5	<0.5	<0.5	<0.5	<50

TABLE 2-Continued
ANALYTICAL RESULTS OF GROUND WATER SAMPLES
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	Ethylbenzene	Total Xylenes	TPH ^a as gasoline
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
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
	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

TABLE 2-Continued

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

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>Total Xylenes</u>	<u>TPH^a as gasoline</u>
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
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
	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

TABLE 2-Continued

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

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>Total Xylenes</u>	<u>TPH^a as gasoline</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
	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
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
	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

^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

^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 ($\mu\text{g}/\text{L}$)

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
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
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
	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

^a Total petroleum hydrocarbons.

^b Not sampled.

^c Not typical gasoline.

T.3 S.



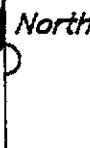
GENERAL NOTES:

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



QUADRANGLE LOCATION

0 2000 FT
SCALE 1 : 24,000



R.2 W.

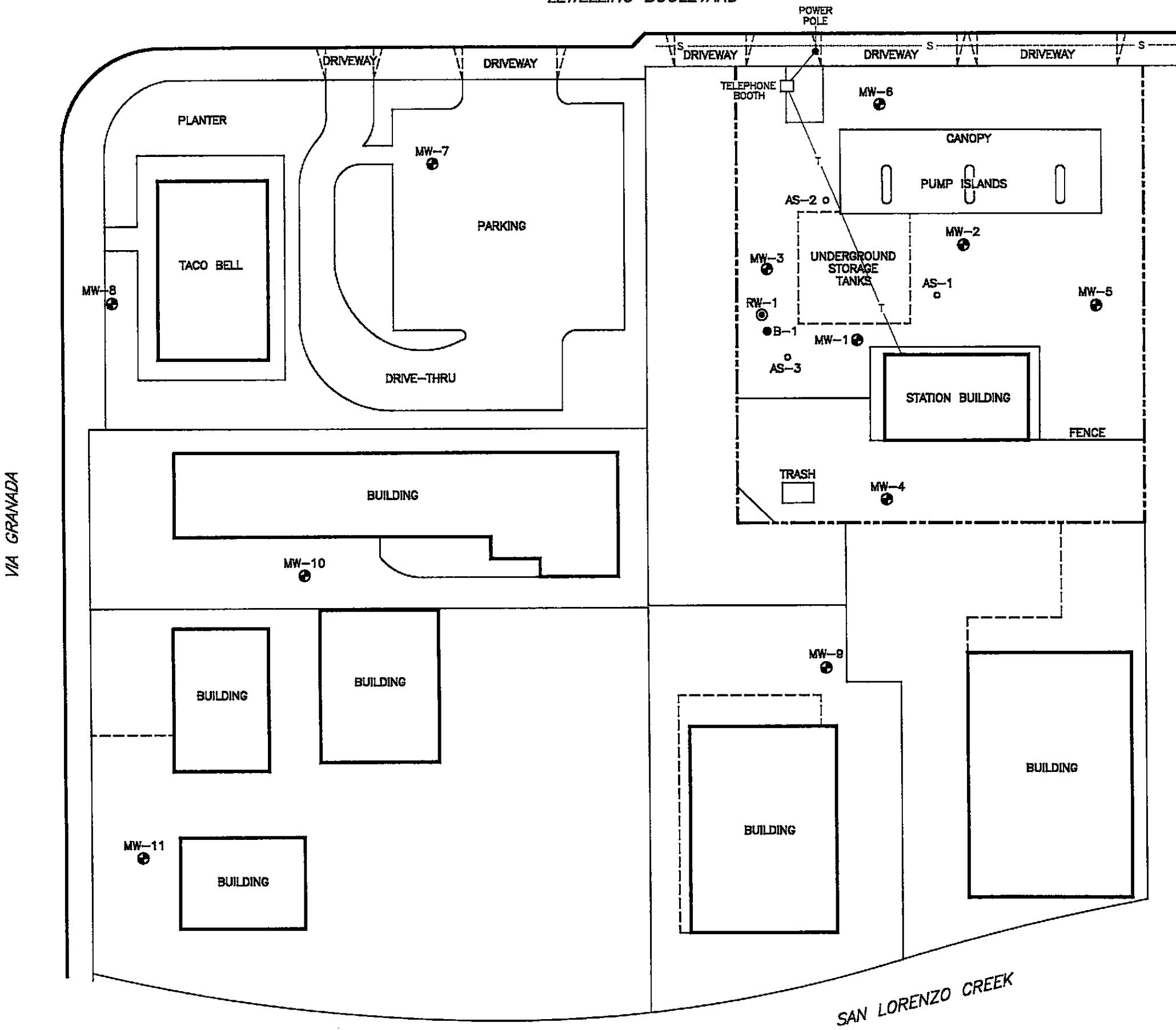
FIGURE 1
SITE LOCATION MAP
BEACON STATION NO. 721
44 LEWELLING BOULEVARD
SAN LORENZO, CA.

PROJECT NO. 40-93-936	DRAWN BY LH 11/2/82
FILE NO. _____	PREPARED BY TMG
REVISION NO. 1	REVIEWED BY 11/2/82



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

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

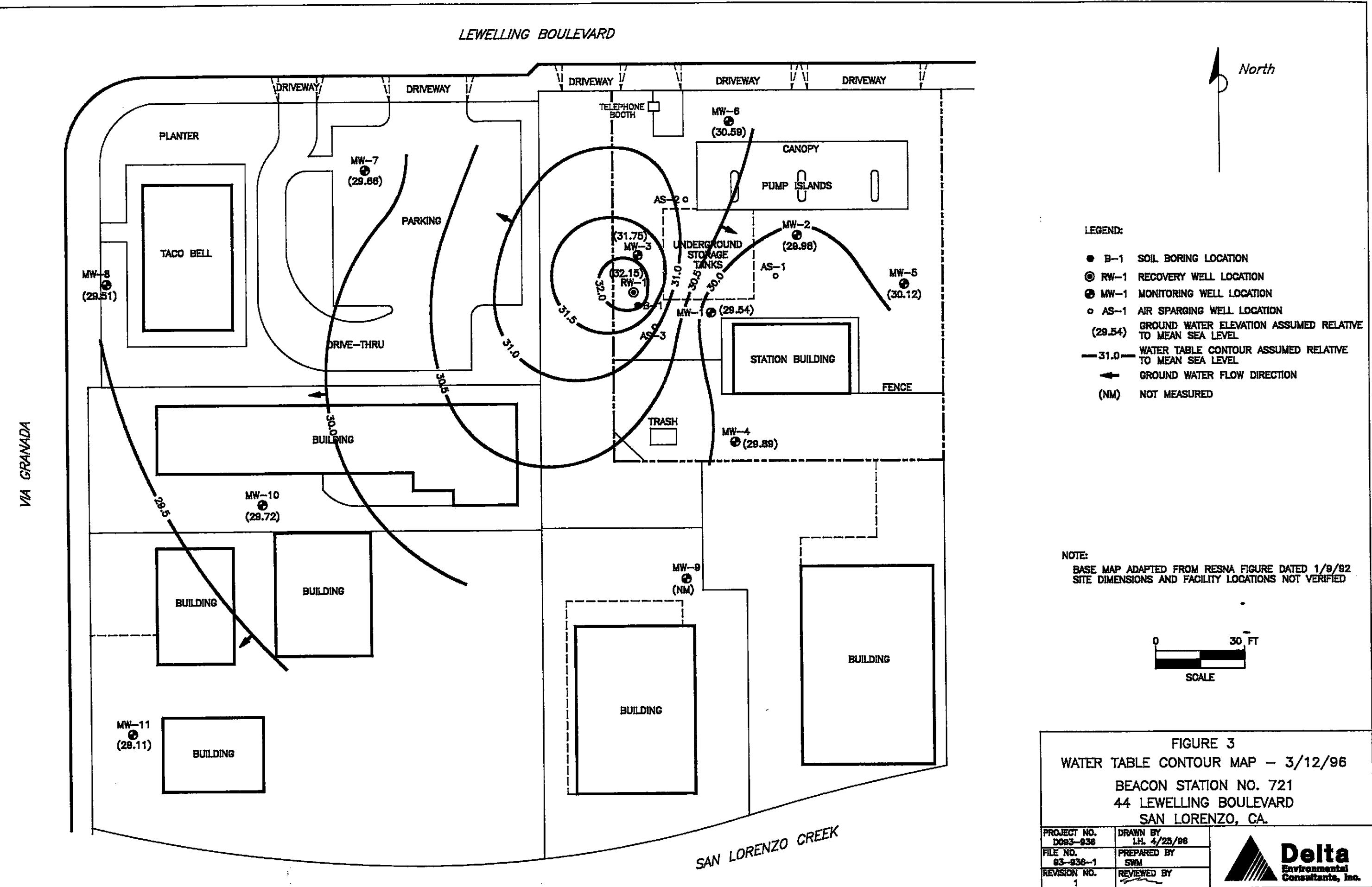


FIGURE 2
SITE VICINITY MAP

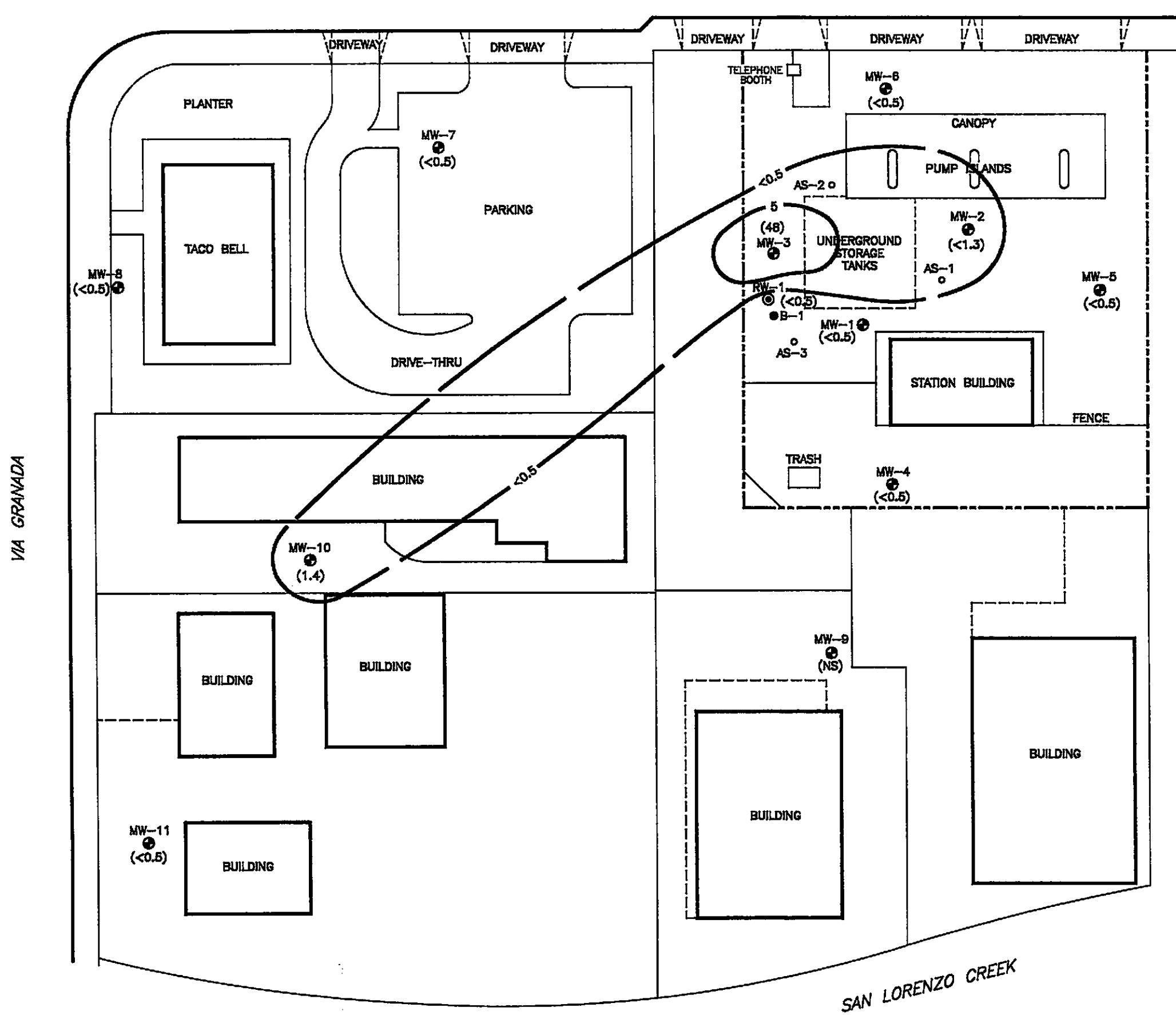
BEACON STATION NO. 721
44 LEWELLING BOULEVARD
SAN LORENZO, CA.

PROJECT NO. D093-836	DRAWN BY LH 10/12/95
FILE NO. 93-836-1	PREPARED BY JWS
REVISION NO. 3	REVIEWED BY <i>[Signature]</i>





LEWELLING BOULEVARD



North

LEGEND:

- B-1 SOIL BORING LOCATION
- ◎ RW-1 RECOVERY WELL LOCATION
- MW-1 MONITORING WELL LOCATION
- AS-1 AIR SPARGING WELL LOCATION
- (48) BENZENE CONCENTRATION IN MICROGRAMS PER LITER ($\mu\text{g}/\text{L}$)
- - - 5 BENZENE ISOCONCENTRATION IN $\mu\text{g}/\text{L}$
- (NS) NOT SAMPLED

SVE from MW-3 + RW-1

NOTE:

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



FIGURE 4
BENZENE ISOCONCENTRATION MAP
3/12/96
BEACON STATION NO. 721
44 LEWELLING BOULEVARD
SAN LORENZO, CA.

PROJECT NO. D083-936	DRAWN BY LH 4/26/96
FILE NO. 93-936-1	PREPARED BY SWM
REVISION NO. 1	REVIEWED BY

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.

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: 3/12/96 Time: 11:00
Wellhead assembly condition: Good Fair Poor (If poor, see comments)
Equipment Replaced: bolts locks locking cap
Well Depth 31.20 ft below top of casing Casing diameter 2 inches
Depth to water (below top of casing) 14.13 ft Date: 3/12/96 Time 1006
Well Casting Volume Multiplier: 0.16 for 2", 0.55 for 4", 1.47 for 6"
Pumping method: Submersible pump Bailer Centrifugal pump Other
At least 4 well volumes have been evacuated before sampling.
Tuning (type:) (new or previously used) was used to purge well
Sampling method: Disposable bailer Sampling port
Samples collected 2 VDA's - BTEX; TO-Hg Sample appearance Cloudy
Note any sampling problems None

~~SOLID WASTE EVACUATION/STABILIZATION DATA~~

Comments

Transpiration (transpiration) cooler + ice

Form completed by

Scanned by: My

SAMPLING INFORMATION SHEET



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

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

Date Sampled: 3/2/76 Time: 1100

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

Equipment Replaced: bats locks locking cap

Well Depth 33.30 ft below sea or casting Casting diameter 2 inches

Date in water (below end of casing) 13-11 ft Date: 3 / 12 / 96 Time 1010

Well Casing Volume Multipliers: 0.16 for 3", 0.25 for 4", 1.57 for 5"

Sampling method: Submersible pump Trawl Other _____

At least 4 well volumes have been evacuated before sampling.

Taping (type:): (new or previously used) was used to tape wall

Sampling method: Disposable trailer Sampling port

Samples collected 2 Vtg's - Btex - TPH_x Sample appearance cloudy

Note my sampling problems now

GROUND WATER EXTRACCTION/STABILIZATION DATA

CC BY-NC-ND

Transportation (thermal preservation) COOLER & ICE

Issued by: M Issued by: M

Sample ID: MW-3 Project Name: BEACON 721 Project No. DCG3-936

Project No. DC93-936

Home address: 44 CEWELLING BLVD. SAN LORENZO, CA

Date Sampled: 3/12/96 Time: 1205

Well-defined assembly condition: Good Fair Poor (If poor, see comments)

Equipment Replaced: boats boats boating equipment

Well Name 29-30 at below top of casing Casing diameter 2 inches

Depth in water (below sea or casing) 11.35 ± Date: 3/12/96 Time 1009

Flow Setting Volume Multiplier = 0.16 for 2", 0.62 for 4", 1.47 for 6"

Reactive methods: Substitutional growth Bauer Constitutional zoning Other _____

11 real sources have been evacuated before sampling.

(Sign or stamp here) ____

Sampling type: Randomization Sampling rate: 50%

Samsung Service: A Disassembly Date: Service Person: Service Charge:

Samples collected LVOA 3 - 618, 1-15g

GROUND WATER EVACUATION/STABILIZATION DATA

Copyright © The McGraw-Hill Companies, Inc.

transpiration (thermal evaporation) COOLED + ICE

Sampled by CL Sampled by CL

SAMPLING INFORMATION SHEET



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

Project No. D093-936

Action (address) 44 LEWELLING Blvd SAN LORENZO CA

Date Sampled: 3/22/86 Time: 1205

Wellhead assembly condition: Good Fair Poor (1)

Cast iron diameter 1 inches

Date: 3/13/96 Time: 1012

100% Curing Volume (without 0.16 mm², 0.67 mm², 1.67 mm²)

Submersaria curva Bauer *Submersaria curva* Bauer

All samples have been evacuated before sampling.

(*either or previously used*) was had in quite well

Sampling methods: *Drosophila baileyi* Sampling spot:

Samuels collected 2 VOA's - B161:104n Samuels interviewee Cleek

Note any sampling problems none

SECOND WATER EXTRACCTION/STABILIZATION DATA

rain and the seas

6

Transportation (land or river) - coastal ice

~~Temp measured 34°~~ 37

Scanned by:

SAMPLING INFORMATION SHEET



**Delta
Environmental
Consultants, Inc.**

Sample ID# MW-5 Project Name: BEACON 721 Project No. D093-936
Location (address): 44 LEWELLYN BLVD. SAN LORENZO, CA
Date Sampled: 3/12/96 Time: 1005
Wellhead assembly condition: X 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) 13.67 ft Date: 3/12/96 Time 1001
Well Casing Volume Multiplier: 0.16 for 2", 0.63 for 4", 1.47 for 6"
Pumping method: Submersible pump Bailer X Centrifugal pump Other
At least 4 well volumes have been evacuated before sampling.
Tuning (type:). (New or previously used) was used to tune well
Sampling method: X Disposable bailer Sampling port
Samples collected 2 vols - BTEX; TPHs Sample appearance Cloudy
Note any sampling problems none

GROUND WATER EXACERATION/STABILIZATION DATA

Comments _____

Transcription (transcriptional regulatory complex) $\frac{1}{2}$ ice

Searched by: _____ Searched by: _____

SAMPLING INFORMATION SHEET



Sample ID: MW-6 Project Name: BEACON721 Project No. D093-936

Patient No. D093-936

Location (address): 44 LEWISING BLVD. SAN LORENZO, CA

Date Sampled: 3/17/96 Time: 1030

Equipment Readiness: Good Fair Poor (If poor, explain)

Well Depth 18.00 feet below top of casing Casing diameter 2 inches

Page 3 / 12 / 96 Time 1001

Figure 2. The effect of the number of nodes on the performance of the proposed algorithm.

4 red truffles have been excavated before sampling.

¹ New or previously used was used to judge well.

Sammlung zerstört Disposizione bauen Sammlung vor:

Sample collected 7. V. 1955 - 8150 ft. Sample name *Clerod*

SECOND WATER EXTRACCTION/STABILIZATION DATA

~~comes~~ Well is very soft

Transcription (human transcription) Cooler, hice

Sampled by: J

SAMPLING INFORMATION SHEET



Sample ID: MW-7 Project Name: Beacon 721 Project No. D093-936

Section address: 44 LEWELLING BLVD SAN LORENZO, CA

Date Sampled: 3/12/96 Time: 0955

Well-head assembly condition: Good Fair Poor (If poor, see comments)

Equipment Required: bolts locks locking cap

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

Deposit to regular checking acc or savings 11.88 Date: 3-12-196 Time 0944

Well Casting Volume Minimum 0.16 cu in 0.63 cu in 1.67 cu in

Planting method: Submerse direct Tiller Conventional seeding Other

Notes - 4 total numbers have been discounted before sampling

(Note: If previously used, attach a copy to this page.)

Sammlung getrennt Disposable bauer Sammlung zort

Samples collected 7 VAA's = BTEX; TPH₄ Sample appearance Cloudy

Name and starting numbers above

SECOND WATERS EVACUATION/STABILIZATION DATA

33

- convection (thermal convection) COOLER \downarrow ICE

Form numbered by: 16 Sampled by: JN

SAMPLING INFORMATION SHEET



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

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

Date Sampled: 3/12/96 Time: 0940

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

Equipment Required: _____ bats _____ balls _____ locking cap

Well Name 23-29 at below top of casing Casing diameter 2 inches

Date: 3/12/96 Time 0927

Well Casting Volume Multiplier: 0.16 ft³, 0.32 ft³, 1.67 ft³

Scoring methods: Superficial burns Bailey X Continuous burns Other _____

well volumes have been evacuated before sampling.

(new or previously used) was used to purge well

Sampling target: Disposable baiter Sampling port

Sample collected 2 VOA's - BTEX; TPA Sample appearance Cloudy

~~You are sending presents now~~

SEAWATER EVACUATION/STABILIZATION DATA

Comments: _____

Transportation (thermal preservation) figure 2-10

Sampled by: M

SAMPLING INFORMATION SHEET



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

Patient No. D093-934

Location (address) 44 JEWELLING BLD. SAN LORENZO, CA

Date Sampled: _____ / _____ / _____ Time: _____

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

Equipment Replaced: _____ bolts _____ locks _____ locking cap

Well Depth 23.80 ft below top of casting Casting diameter 2 inches

Depth in water (below top of casing): _____ ft Date: _____ / _____ / _____ Time: _____

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

Surveys Swimmer Baiter Competition Other

At least **5** wet volumes have been evacuated before sampling.

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

Sampling method **Disposable baiter** **Sampling port**

Scenes collected 2 VPA's = BTEX-TPH Sample appearance

Note any existing projects

GROUND WATER EVACUATION/STABILIZATION DATA

~~CHURCH OF THE WISE~~

Transportation (thermal insulation) Cooler to ice

Form completed by: _____ Sampled by: _____

SAMPLING INFORMATION SECRET



Sample ID# MW-10 Project Name: BEACON 721 Project No. D093-936
Location (address) 44 LEVELLING BLVD SAN LORENZO CA
Date Sampled: 3/12/96 Time: 0920
Wellhead assembly condition: Good Fair Poor (If poor, see comments)
Equipment Replaced: bolts locks locking cap
Well Depth 29.50 ± below top of casing Casing diameter 2 inches
Depth to water (below top of casing) 12.62 Date: 3/12/96 Time 0907
Well Casing Volume Multiplier: 0.16 for 2", 0.63 for 4", 1.47 for 6"
Purging method: Submersible pump Bailer Compressed 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 VOC's - BTex; JP43 Sample appearance Cloudy
Note any sampling problems None

GROUND WATER EVACUATION/STABILIZATION DATA

Comments: _____

Transportation (thermal preservation) Cooler + ice
Form completed by: 14 Sampled by: U

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

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

Date Sampled: 3/12/96 Time: 0900

Good Fair Poor (If poor, see comments)

Equipment Requirements parts costs location info

Well Depth 29.50 ft below top of casing Casing diameter 7 inches

Report on upper Scolopax spp. at crossings 599 Date: 3/12/76 Time 0847

Fig. 3. Casting Volume Variations: 0.16 hr. τ , 0.65 hr. τ , 1.47 hr. τ .

Planting method: Submergible pump Dibbles Conventional pump Other _____

and volumes have been evacuated before sampling.

Testing (cont.) *[New or previously used] was used to judge test*

Sammlung verloren: X Dissecanie haufer Sammlung fort-

Sample appearance Cloudy

Year you started teaching 1971

SEWAGE WATER EVACUATION/STABILIZATION DATA

Comments _____

Transportation (therapeutic intervention) Cool Eyez to ICE

Sampled by: AG

SAMPLING INFORMATION SHEET



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

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

Date Sampled: 3 / 12 / 96 Time: 1740

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

Date: 3/17/96 Time 1008

W.L. Goring Volume Measuring: 0.16 liter 3" x 0.63 for 4" L.17 liter 6"

Breeding method: Submersible pump Bailex Centrifugal pump Other _____

As long as 4 well volumes have been evacuated before sampling.

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

Sampling method: X Disposable bailes Sampling port

Samples collected TPHg. Brx Sample appearance Cloudy

None any sampling problems now

GROUND WATER EVACUATION/STABILIZATION DATA

Comments: Sampled at west, No hydacs Heavy Rain

Transportación (thermal preservation) Cooler + ice

Form completed by: 7 Submitted by: 16

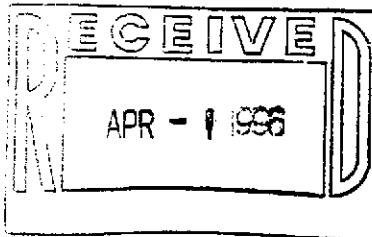
ENCLOSURE C

Ground Water Sample Laboratory Report

WEST LABORATORY

March 26, 1996
Sample Log 14225

Todd Galati
Delta Environmental Consultants, Inc.
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: 03/13/96

Dear Mr. Galati:

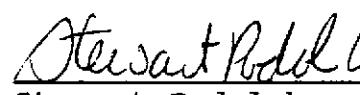
Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on March 26, 1996 and describes procedures used to analyze the samples.

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

"BTEX" (EPA Method 602/5030)
"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:



Stewart Podolsky
Senior Chemist

WEST LABORATORY

Sample Log 14225

14225-08

Sample: MW-1

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

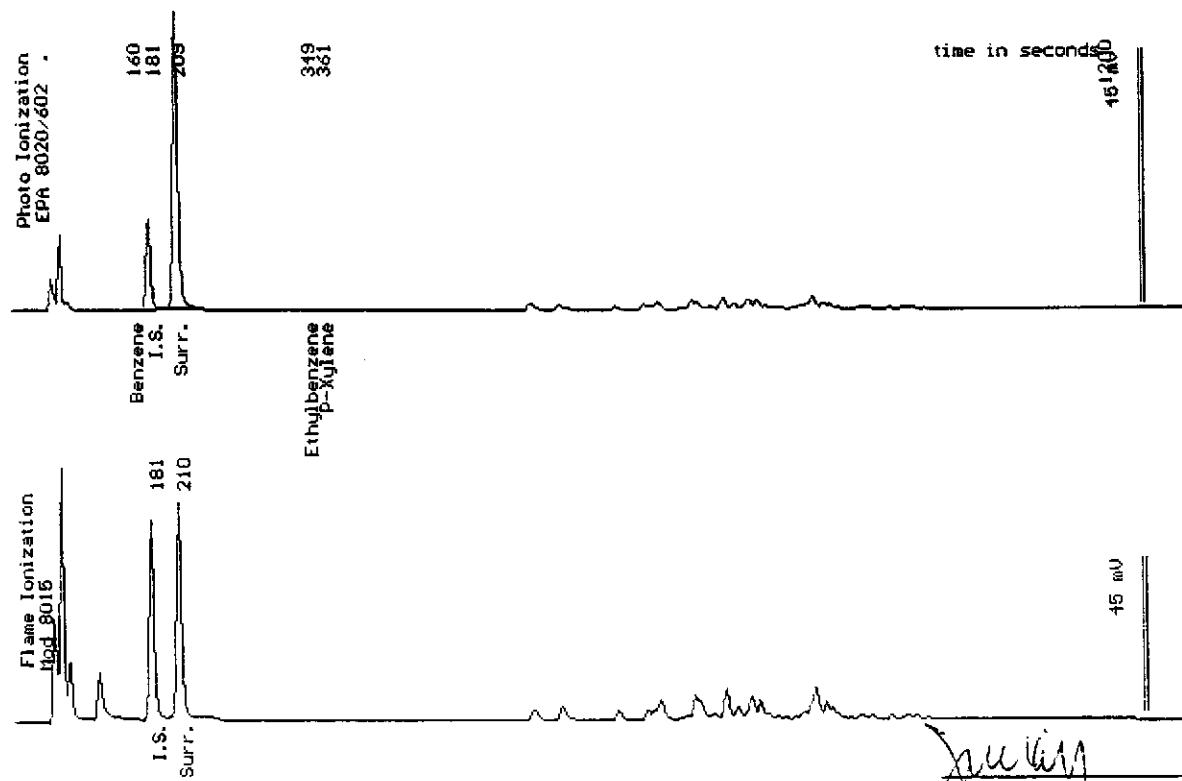
Sampled : 03/12/96

Dilution : 1:1

QC Batch : 4144T

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)	110
Surrogate Recovery		111 %



Date Analyzed: 03-25-96
 Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
 Senior Chemist

WEST LABORATORY

Sample Log 14225

14225-07

Sample: MW-2

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

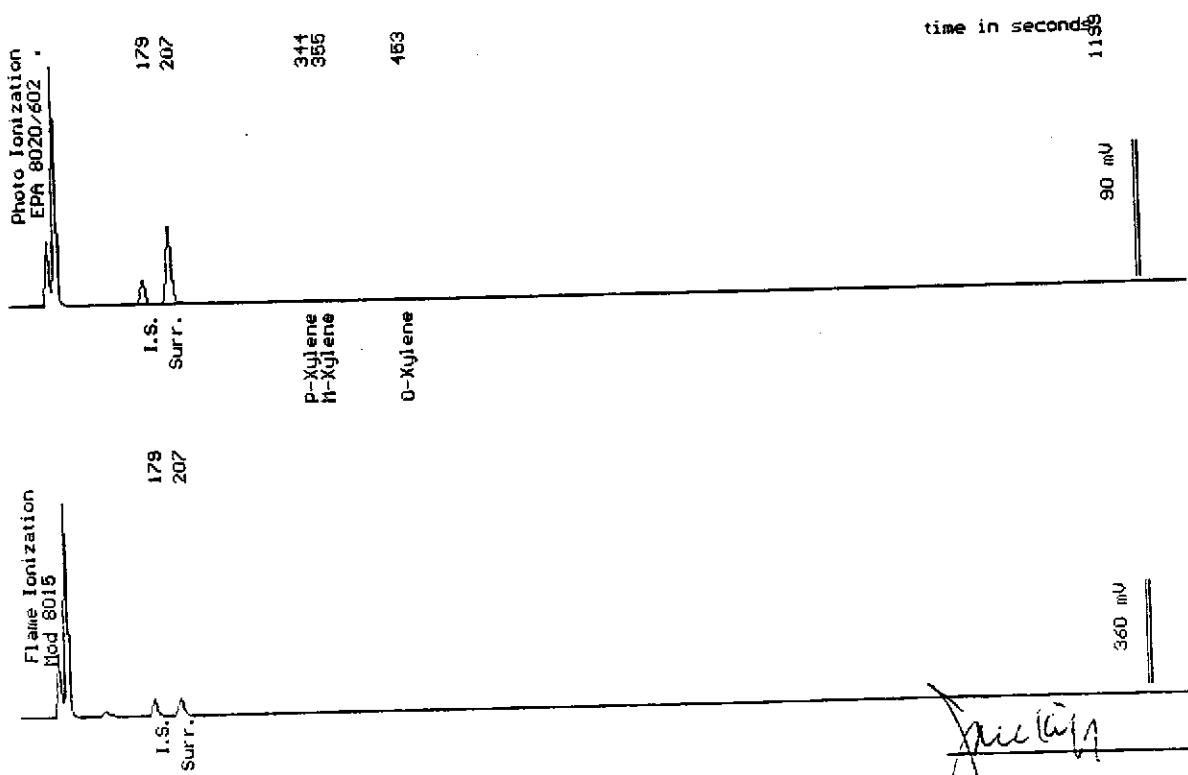
Sampled : 03/12/96

Dilution : 1:3

QC Batch : 4144R

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(1.3)	<1.3
Toluene	(1.3)	<1.3
Ethylbenzene	(1.3)	<1.3
Total Xylenes	(1.3)	<1.3
TPH as Gasoline	(130)	710
Surrogate Recovery		108 %



Date Analyzed: 03-22-96
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

WEST LABORATORY

Sample Log 14225

14225-09

Sample: MW-3

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

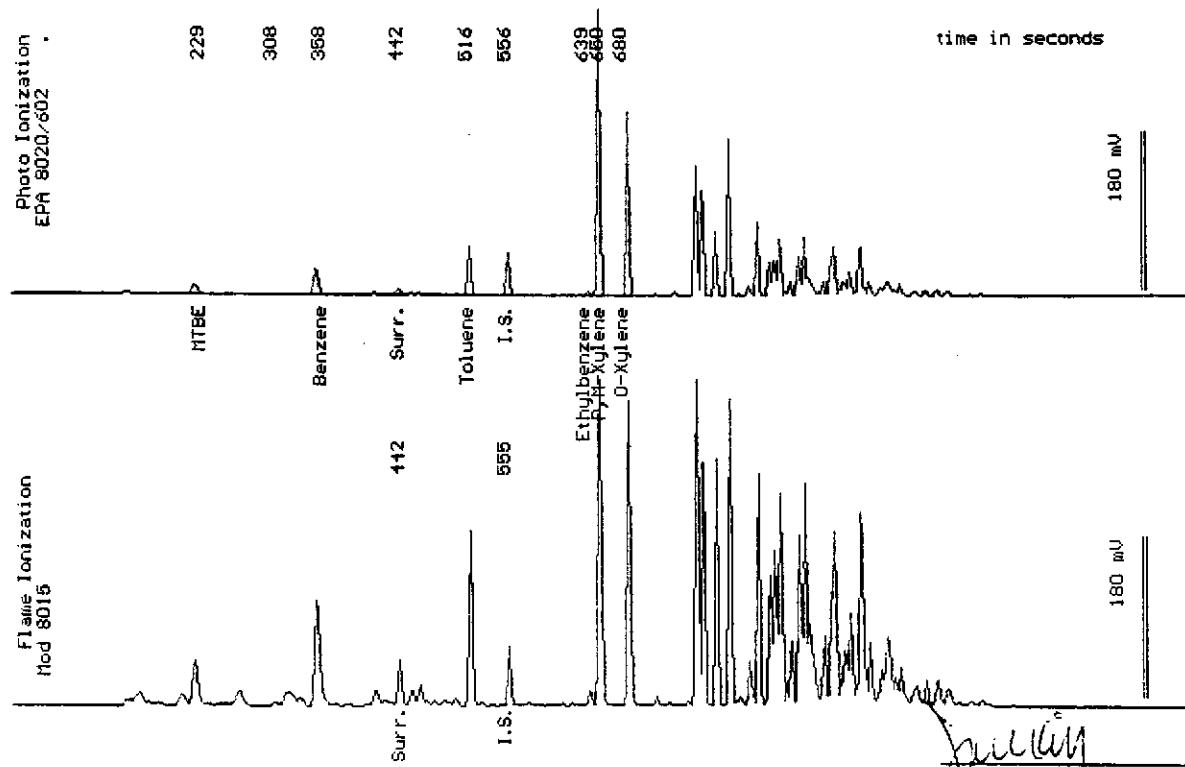
Sampled : 03/12/96

Dilution : 1:1

QC Batch : 2140K

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(.50)	48
Toluene	(.50)	64
Ethylbenzene	(.50)	5.3
Total Xylenes	(.50)	630
TPH as Gasoline	(50)	2400
Surrogate Recovery		64 %



Date Analyzed: 03-22-96
Column : 0.53mm X 60m Restek Rtx-1301

Joel Kiff
Senior Chemist

WEST LABORATORY

Sample Log 14225

14225-10

Sample: MW-4

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

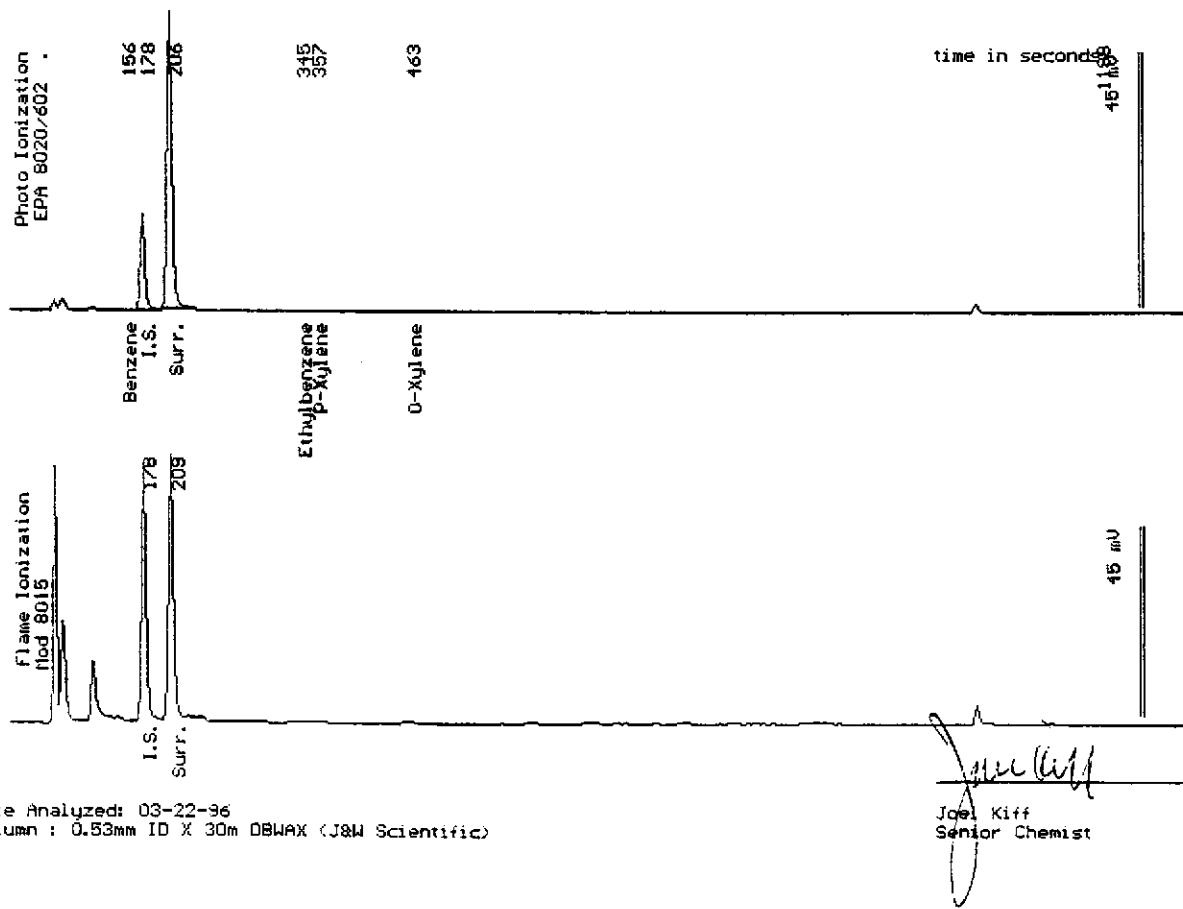
Sampled : 03/12/96

Dilution : 1:1

QC Batch : 4144R

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		111 %



WEST LABORATORY

Sample Log 14225
14225-06

Sample: MW-5

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

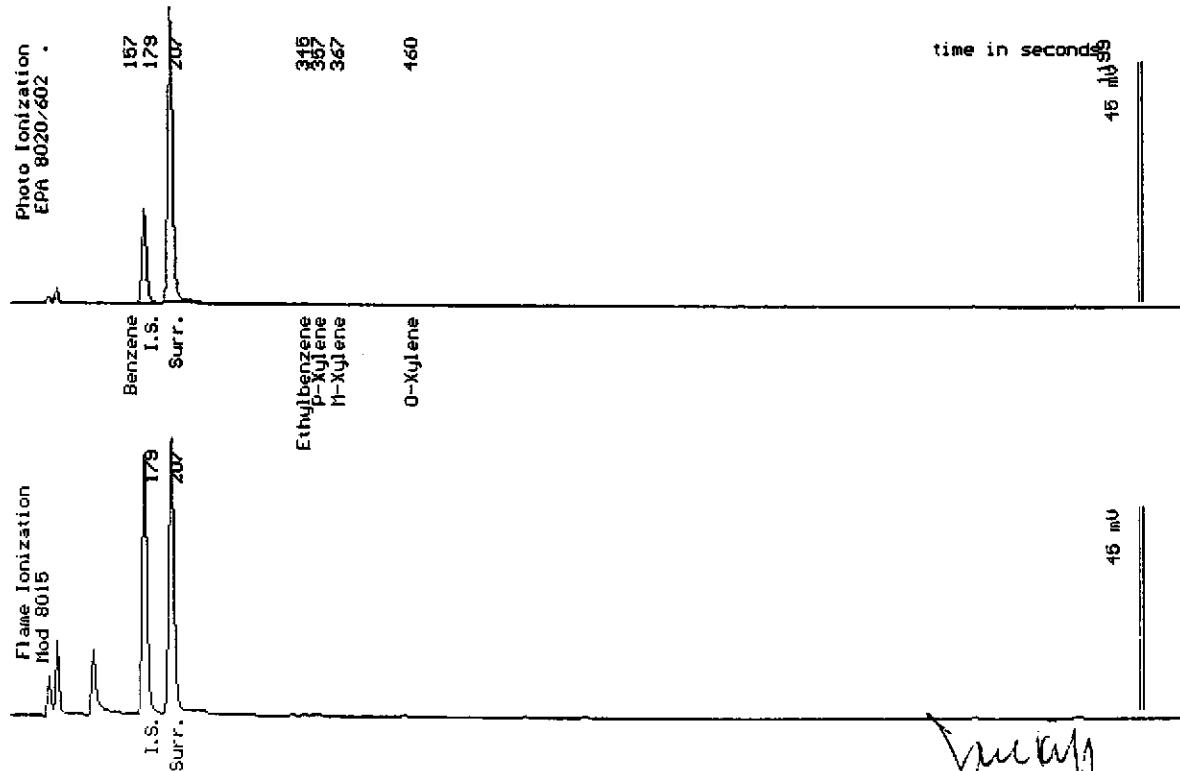
Sampled : 03/12/96

Dilution : 1:1

QC Batch : 4144p

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		105 %



Date Analyzed: 03-21-96
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

WEST LABORATORY

Sample Log 14225
14225-05

Sample: MW-6

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

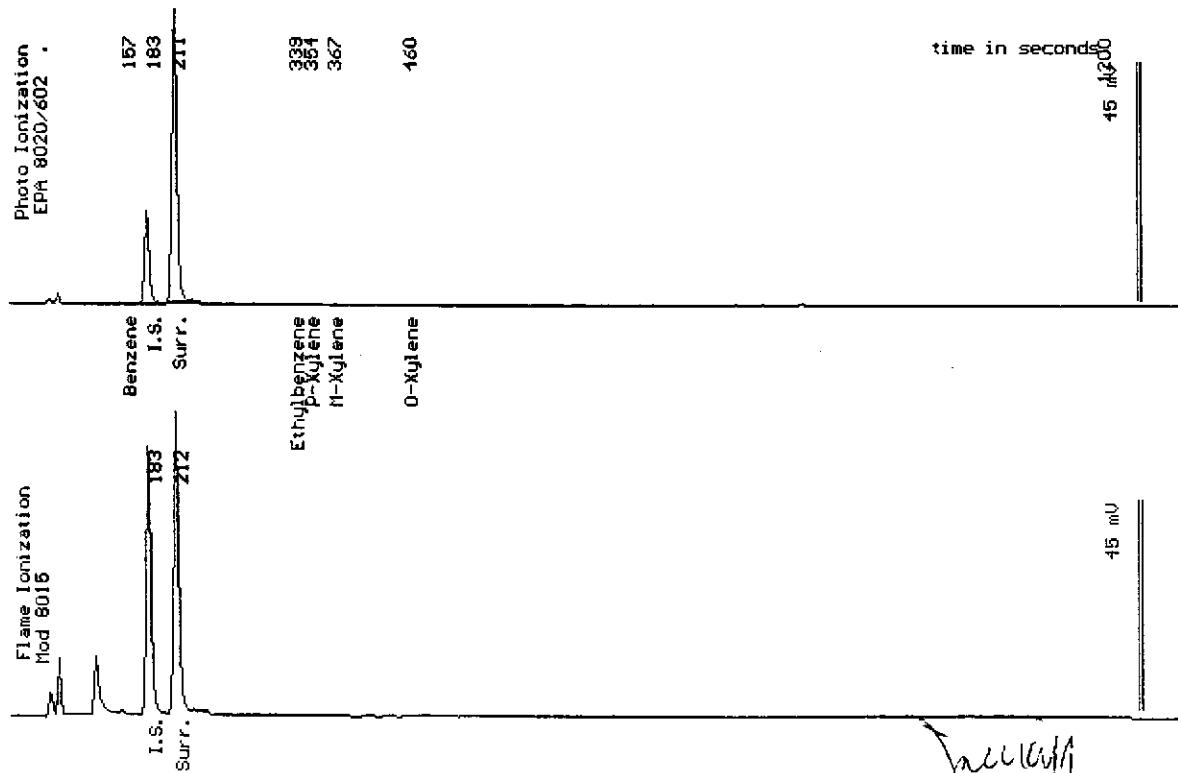
Sampled : 03/12/96

Dilution : 1:1

QC Batch : 4144p

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		109 %



Date Analyzed: 03-21-96
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

WEST LABORATORY

Sample Log 14225
14225-04

Sample: MW-7

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

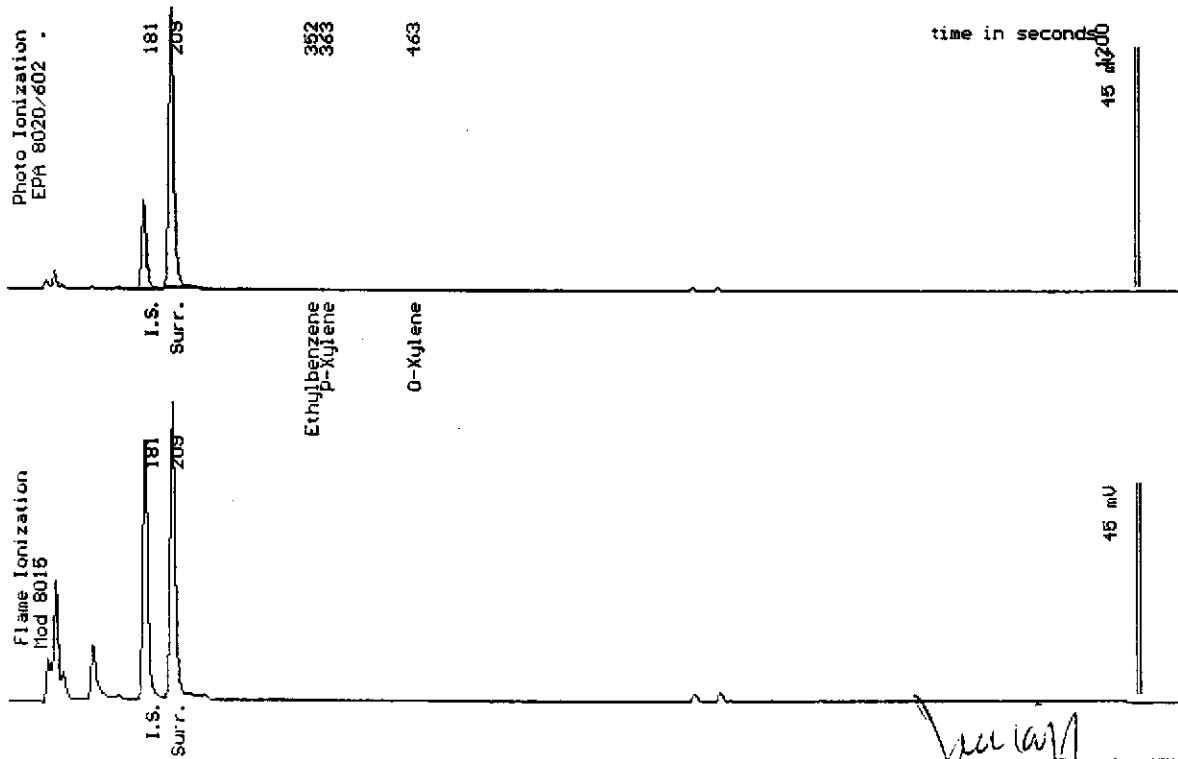
Sampled : 03/12/96

Dilution : 1:1

QC Batch : 4144p

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		108 %



Date Analyzed: 03-21-96
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

WEST LABORATORY

Sample Log 14225

14225-03

Sample: MW-8

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

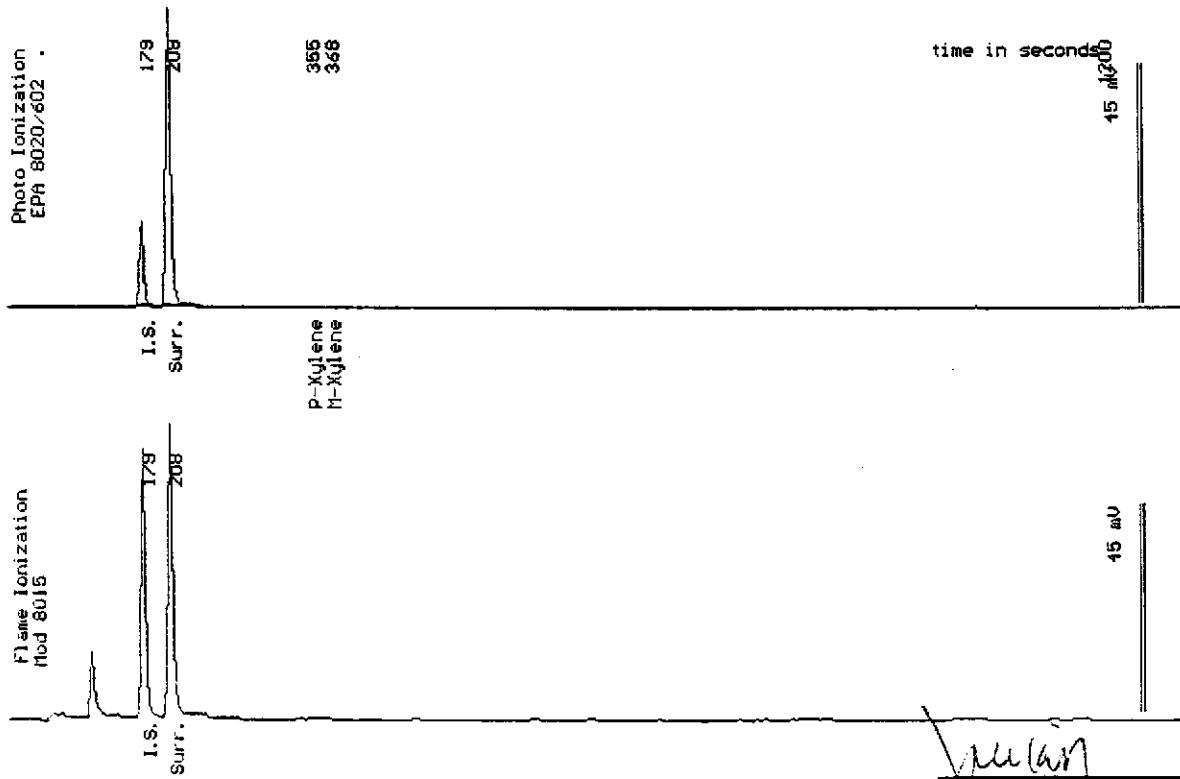
Sampled : 03/12/96

Dilution : 1:1

QC Batch : 4144p

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		116 %



Date Analyzed: 03-21-96
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

WEST LABORATORY

Sample Log 14225
14225-02

Sample: MW-10

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

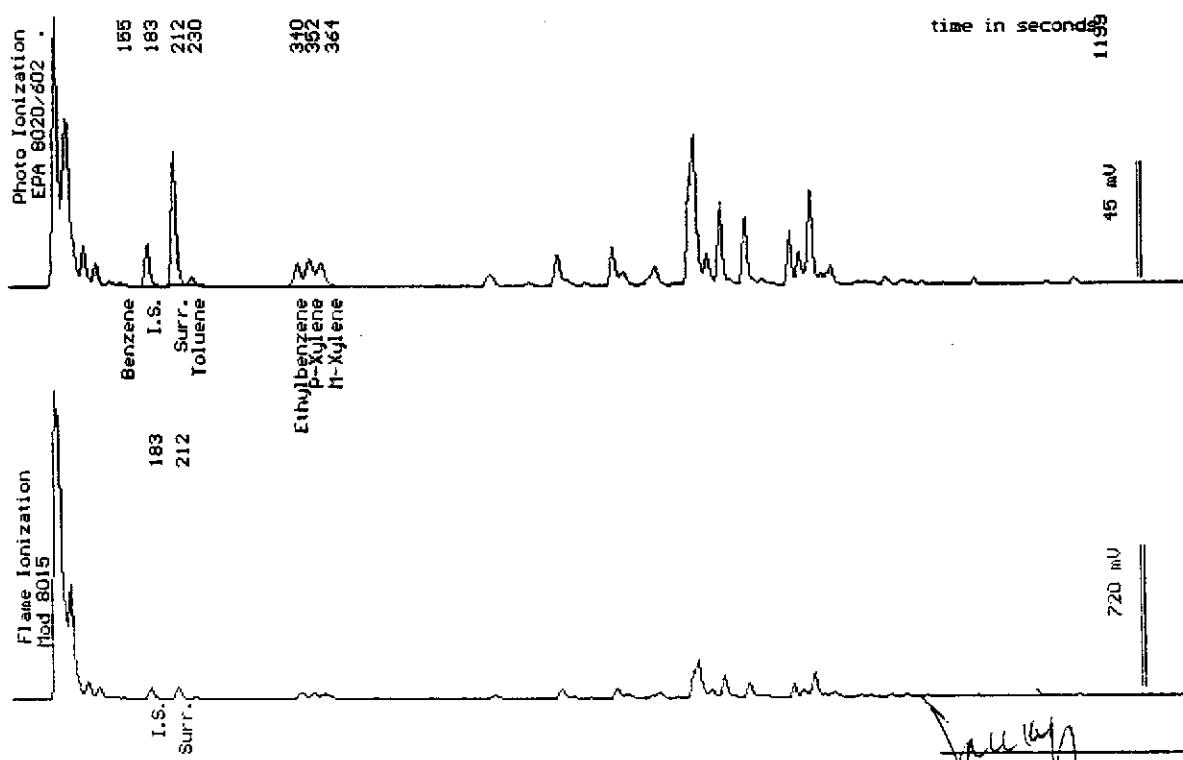
Sampled : 03/12/96

Dilution : 1:3

QC Batch : 4144S

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(1.3)	1.4
Toluene	(1.3)	5.9
Ethylbenzene	(1.3)	41
Total Xylenes	(1.3)	73
TPH as Gasoline	(130)	4500
Surrogate Recovery		96 %



Date Analyzed: 03-22-96
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

WEST LABORATORY

Sample Log 14225

14225-01

Sample: MW-11

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

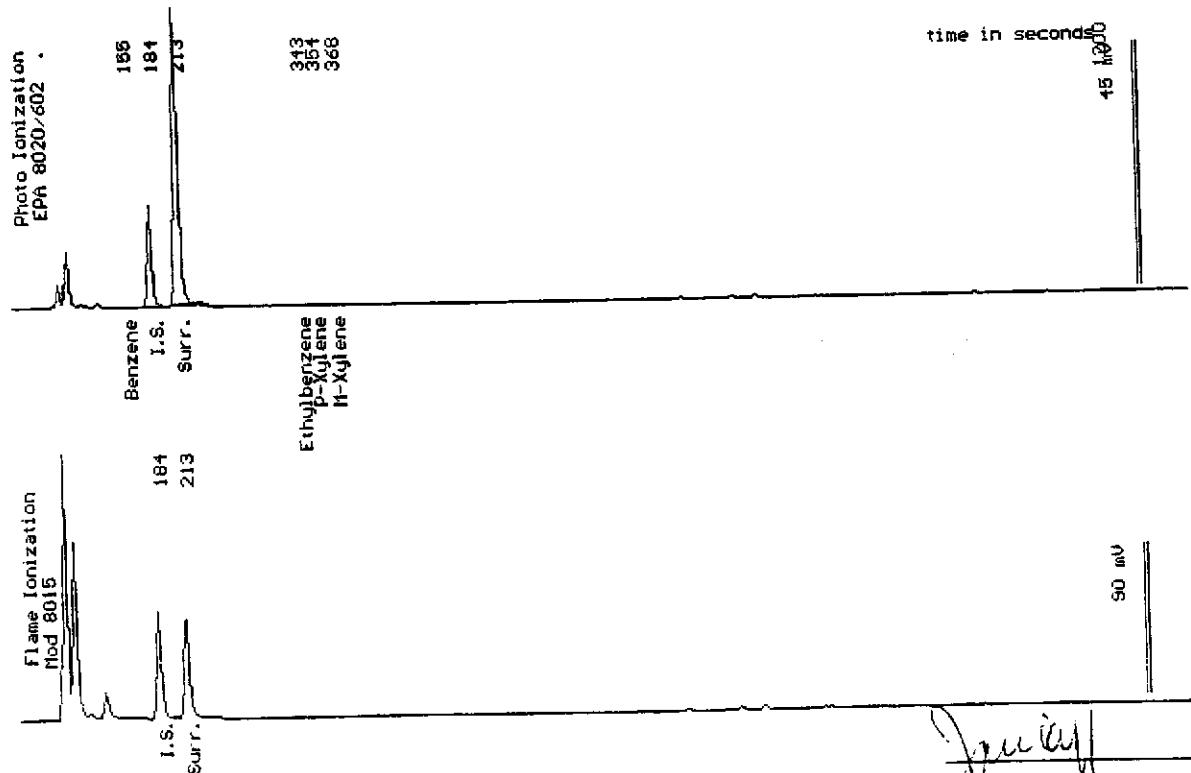
Sampled : 03/12/96

Dilution : 1:1

QC Batch : 4144p

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)	110
Surrogate Recovery		107 %



Date Analyzed: 03-21-96
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Deb Kiff
Senior Chemist

WEST LABORATORY

Sample Log 14225

MTBE (Methyl-t-butyl ether) Results

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

Sampled : 03/12/96

Received : 03/13/96

Matrix : Water

MTBE	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
MW-11	(5.0)	<5.0
MW-10	(13)	120 ✓
MW-8	(5.0)	<5.0
MW-7	(5.0)	11
MW-6	(5.0)	7.1
MW-5	(5.0)	9.2
MW-2	(50)	3200
MW-1	(5.0)	44
MW-3	(5.0)	97
MW-4	(5.0)	<5.0
RW-1	(5.0)	110

Approved By:


Joel Kiff
Senior Chemist

WEST LABORATORY

Sample Log 14225

14225-11

Sample: RW-1

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

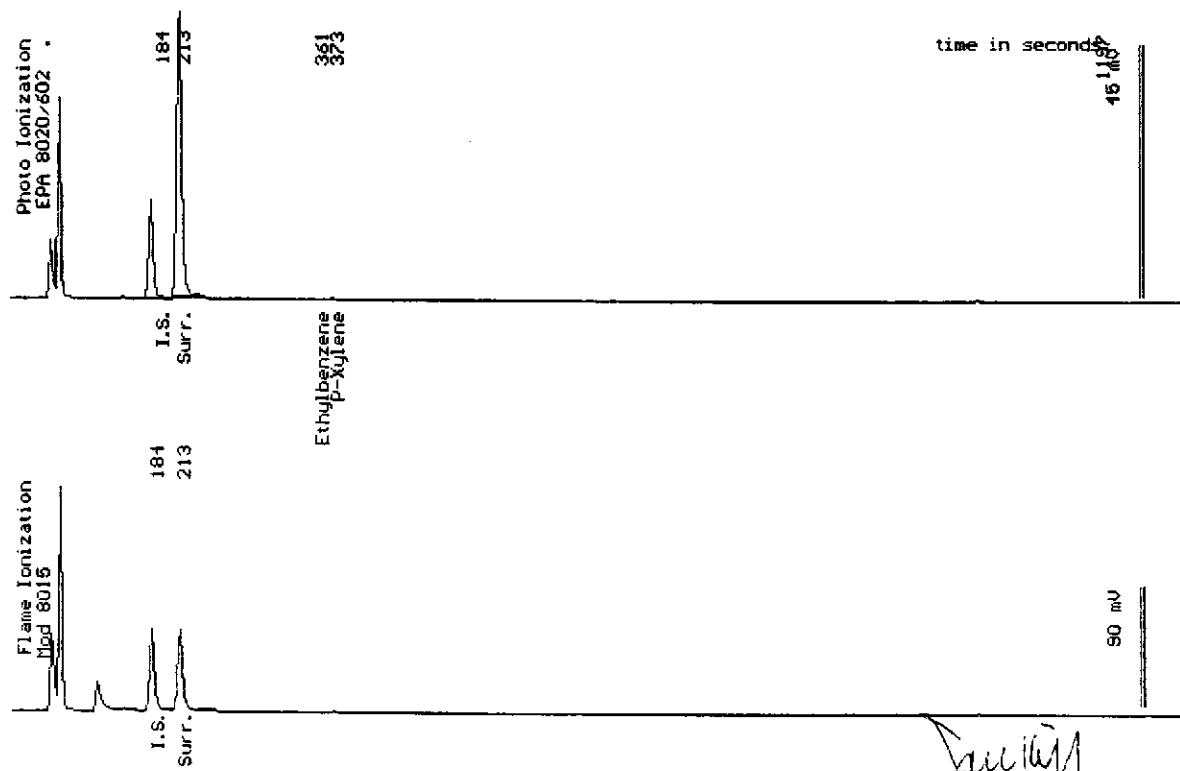
Sampled : 03/12/96

Dilution : 1:1

QC Batch : 4144p

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)	86
Surrogate Recovery		111 %



Date Analyzed: 03-21-96
Column : 0.53mm ID X 30m DBMAX (J&W Scientific)

Joel Kiff
Senior Chemist



Ultramar Inc.

CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. 721	Sampler (Print Name) Troy Stoops	ANALYSES			Date 3-12-96	Form No. 1 of 2
Project No. D093-936	Sampler (Signature) <i>Troy Stoops</i>				TPH (gasoline)	TPH (diesel)
Project Location San Lorenzo	Affiliation Delta				No. of Containers	
Sample No./Identification	Date	Time	Lab No.	BTEX		REMARKS
MW-11	3-12-96	0900	14225-01	X X	1	
MW-10		0920		02		
MW-8		0940		03		
MW-7		0955		04		
MW-6		1030		05		RECEIVED POSTAGE 1445
MW-5		1045		06		0
MW-2		1100		07		SM
MW-1		1110		08		
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)		Date	Time
<i>J. Stoops / Delta</i>	3/13	0800	<i>S. Sandoval / Delta</i>		3/13	0800
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)		Date	Time
<i>J. Stoops / Delta</i>	3/13	0805	<i>S. Sandoval / Delta</i>		3/13	0805
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)		Date	Time
<i>J. Stoops / Delta</i>	3/13	1445	<i>John Martz</i>		3/13/96	1445
Report To: 1040 Calif. - Delta			Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: <i>T. Fox</i>			



Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. 721	Sampler (Print Name) Tay Stoops			ANALYSES			Date 3-17-96	Form No. 708
Project No. D093-936	Sampler (Signature) <i>Tay Stoops</i>						West LAB-Davis	
Project Location San Lorenzo	Affiliation Delta						Standard TAT	
Sample No./Identification	Date 3-12-96	Time 1205	Lab No. 14225-09	BTEX X	TPH (gasoline) X	TPH (diesel) X	REMARKS	
MW-3							2	
MW-4		1225	10	X			2	
MW-1		1240	11	X			2	
RECEIVED Det. Analysts 1445 TCLP O INITIALS SN WEST LAB								
Relinquished by: (Signature/Affiliation) <i>Tay Stoops Delta</i>	Date 3/13	Time 8:00	Received by: (Signature/Affiliation) <i>S. Somas / Delta</i>			Date 3/13	Time 8:00	
Relinquished by: (Signature/Affiliation) <i>S. Somas</i>	Date 3/13	Time 2:05	Received by: (Signature/Affiliation) <i>S. Somas / Delta</i>			Date 3/13/96	Time 2:05	
Relinquished by: (Signature/Affiliation) <i>T. Fox</i>	Date 3/13/96	Time 1445	Received by: (Signature/Affiliation) <i>John Mandy</i>			Date 3/13/96	Time 1445	
Report To: Todd Galati - Delta				Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: T. Fox				

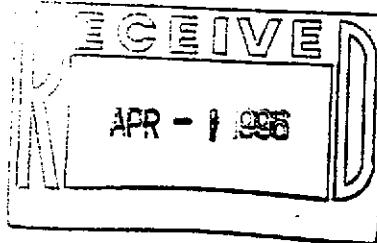
ENCLOSURE D

Remediation System Analytical Results

WEST LABORATORY

March 26, 1996
Sample Log 14210

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: 03/12/96

Dear Mr. Kittredge:

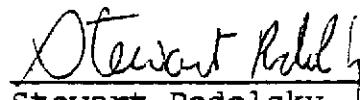
Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on March 21, 1996 and describes procedures used to analyze the samples.

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

"BTEX" (EPA Method 602/5030)
"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:



Stewart Podolsky
Senior Chemist

WEST LABORATORY

March 25, 1996
Sample Log 14210

From : Beacon 721 (Project # D093-936)
Date Sampled : 03/12/96
Matrix : Water
Duplicate Sample : 14288-01

Date Received : 03/12/96
Units : mg/L

Total Suspended Solids EPA Method 160.2

<u>West ID</u>	<u>Sample ID</u>	<u>Result</u>	<u>MRL</u>	<u>Blank</u>	<u>% RPD</u>	<u>Date Analyzed</u>
14210-01	effluent	<3.0	3.0	<3.0	8	03/22/96

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

WEST LABORATORY

Sample Log 14210

MTBE (Methyl-t-butyl ether) Results

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

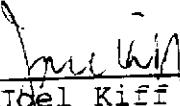
Sampled : 03/12/96

Received : 03/12/96

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)	5.3

Approved By:



Joel Kiff
Senior Chemist

WEST LABORATORY

Sample Log 14210

14210-01

Sample: effluent

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

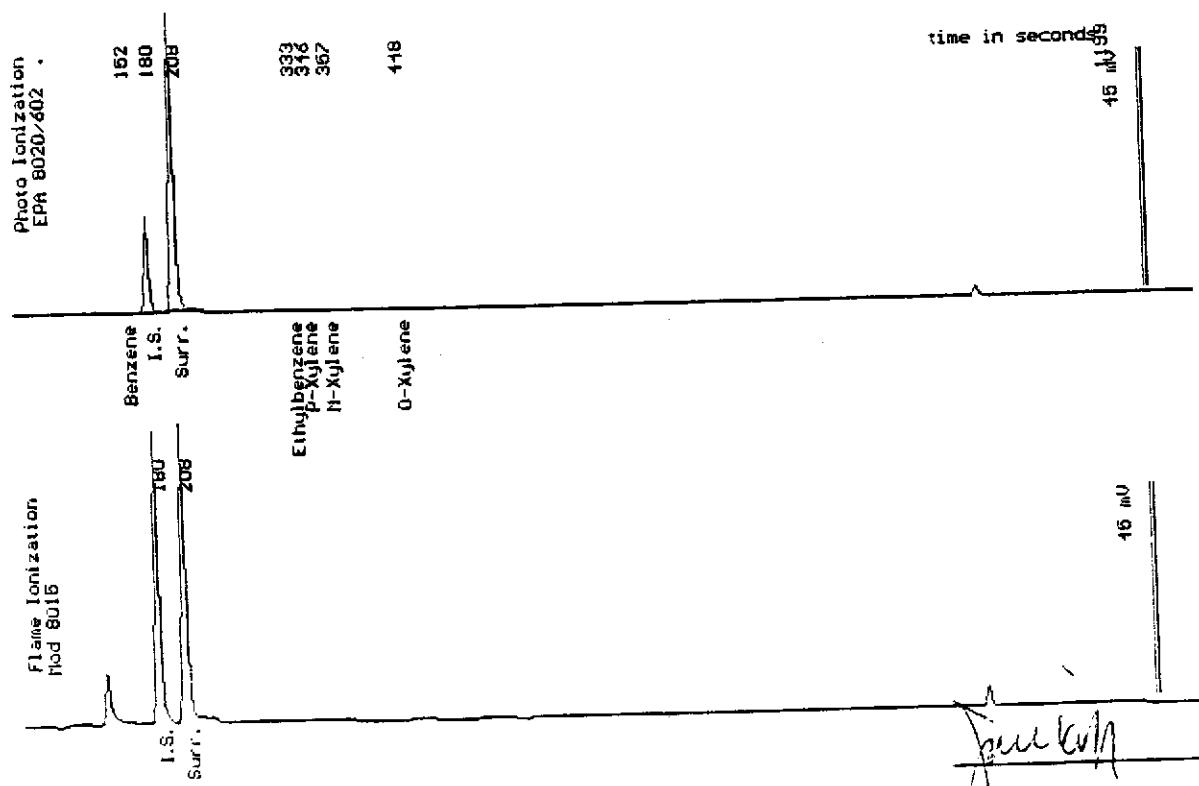
Sampled : 03/12/96

Dilution : 1:1

QC Batch : 4144M

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		109 %



Date Analyzed: 03-20-96
Column : 0.53mm ID X 30m QBMAX (J&W Scientific)

Joel Kiff
Senior Chemist

Joel Kiff
Senior Chemist

WEST LABORATORY

Sample Log 14210
14210-02

Sample: MID

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

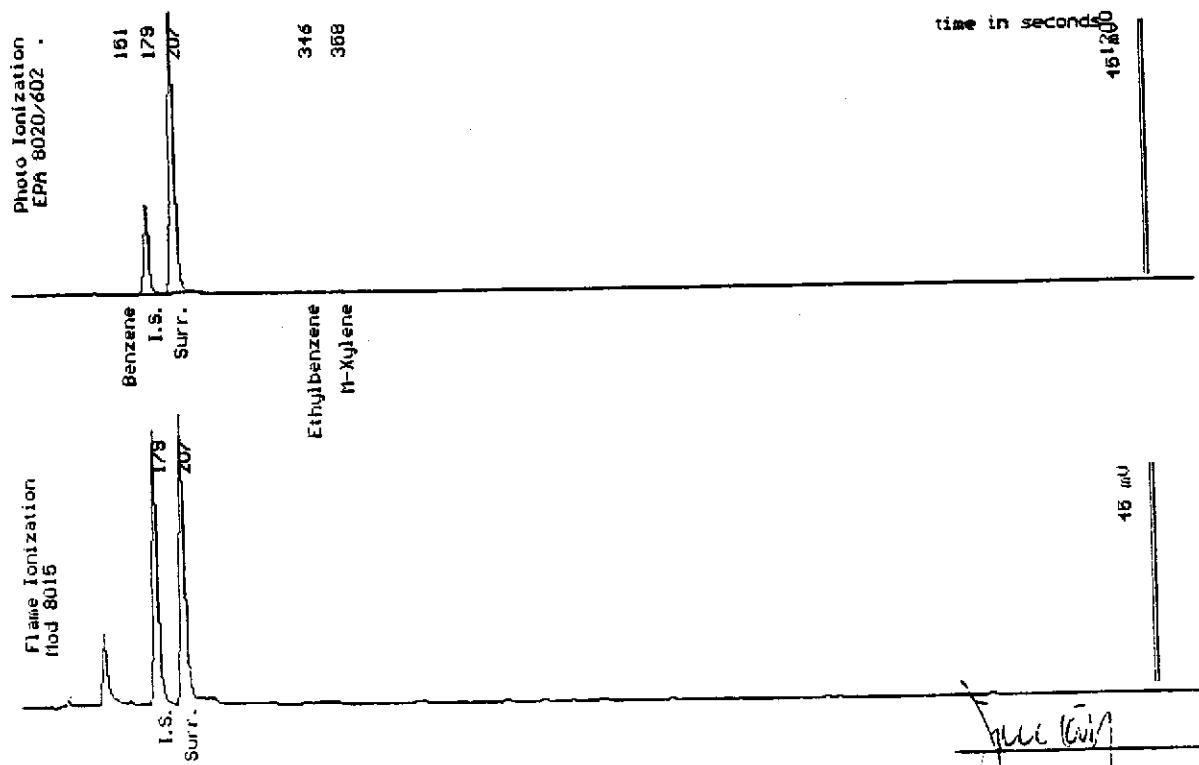
Sampled : 03/12/96

Dilution : 1:1

QC Batch : 4144n

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		109 %



Date Analyzed: 03-21-96
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

WEST LABORATORY

Sample Log 14210

14210-03

Sample: influent

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

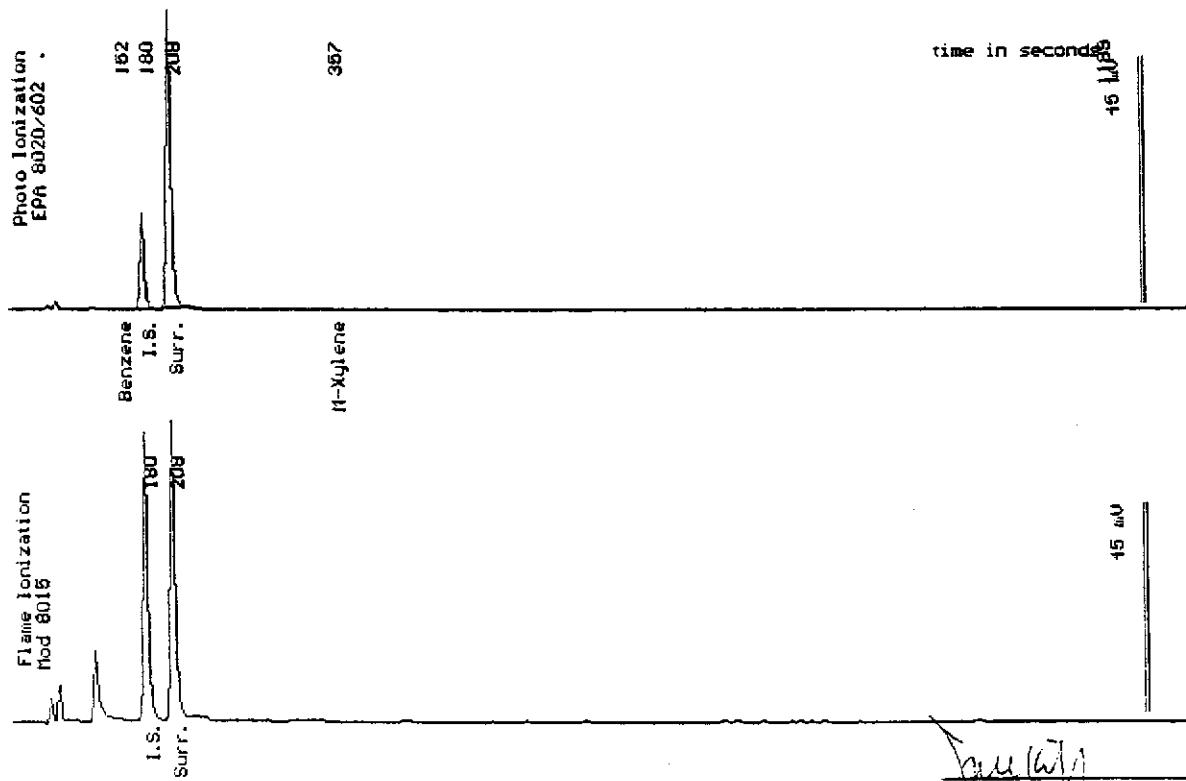
Sampled : 03/12/96

Dilution : 1:1

QC Batch : 4144n

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		111 %



Date Analyzed: 03-21-96
Column : 0.53mm ID X 30m DBMAX (J&W Scientific)

Joel Kiff
Senior Chemist

JM(W/J)



ANALYTICAL LABORATORY

1910 S STREET SACRAMENTO, CALIFORNIA 95814 • 916-447-2946 • FAX 916-447-8321

March 25, 1996

Western Environmental Science
& Technology
1046 Olive Drive, Suite 3
Davis, CA 95616

P.O. #: 14210
Project #: D093-936
Project Name: Beacon 721

Anlab I.D. AF04763

Client Code: 315

SAMPLE DESCRIPTION: EFFLUENT 14210-01

Matrix: W

Sample collection date: 03/12/96

Time:

Lab submittal date: 03/12/96

Time: 13:00

Turn-Around-Time: TYPE 10

Sample Disposal: LAB

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
COD by EPA 410.4	mg/l	ND	3.0

ND = Not Detected

Date Analyzed: 03/14/96

Report Approved By:
ELAP ID #: 1468

Patty Buckall

:jbc



Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. 721	Sampler (Print Name) Martin W. Morgan	ANALYSES			Date 3/12/96	Form No. of /	
Project No. D093-936	Sampler (Signature) M.W. Morgan	BTEX	TPH (gasoline)	TPH (diesel)	1/5	WEST labs 916 753 9500	
Project Location San Lorenzo, CA	Affiliation Delta	XX	XX	XX	1/CD	Standard Turn	
Sample No./Identification effluent	Date 3/12/96	Time 0818	Lab No. 14210-01			REMARKS	
MID	3/12/96	0820	02	XX			
Influent	3/12/96	0822	03	XX			
Relinquished by: (Signature/Affiliation) M.W. Morgan / Delta		Date 3/12/96	Time 1115	Received by: (Signature/Affiliation)		Date 1115	Time
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation)		Date	Time
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation)		Date John W. Martz 3/12/96	Time 1115
Report To: Owen Kiffredge 916 638 2085 fax 8385			Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: Terry Fox				

WHITE: Return to Client with Report

YELLOW: Laboratory Copy

PINK: Originator Copy

ANLAB QA/QC REPORT

AF04763

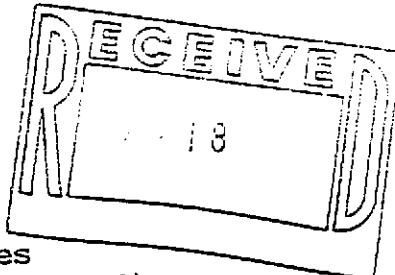
This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.

LCS = LAB CONTROL SAMPLE
% DUD RPD; X=SAMPLE OR MATRIX SPIKE RESULT Y=DUPLICATE OR MATRIX SPIKE DUP RESULT ((ABS(X-Y))/((X+Y))/2)*100

WEST LABORATORY

March 5, 1996
Sample Log 14089

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: 02/27/96

Dear Mr. Kittredge:

Analysis of the sample(s) referenced above has been completed.
This report is written to confirm results communicated on
March 5, 1996 and describes procedures used to analyze the
samples.

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

"BTEX" (EPA Method 602/5030)
"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:



Stewart Podolsky
Senior Chemist

WEST LABORATORY

March 1, 1996
Sample Log 14089

From : Beacon 721 (Project # D093-936)
Date Sampled : 02/27/96
Matrix : Water
Duplicate Sample : 14093-01

Date Received : 02/27/96
Units : mg/L

Total Suspended Solids EPA Method 160.2

West ID	Sample ID	Result	MRL	Blank	% RPD	Date Analyzed
14089-01	effluent	<3.0	3.0	<3.0	1	03/01/96

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

WEST LABORATORY

Sample Log 14089

14089-01

Sample: effluent

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

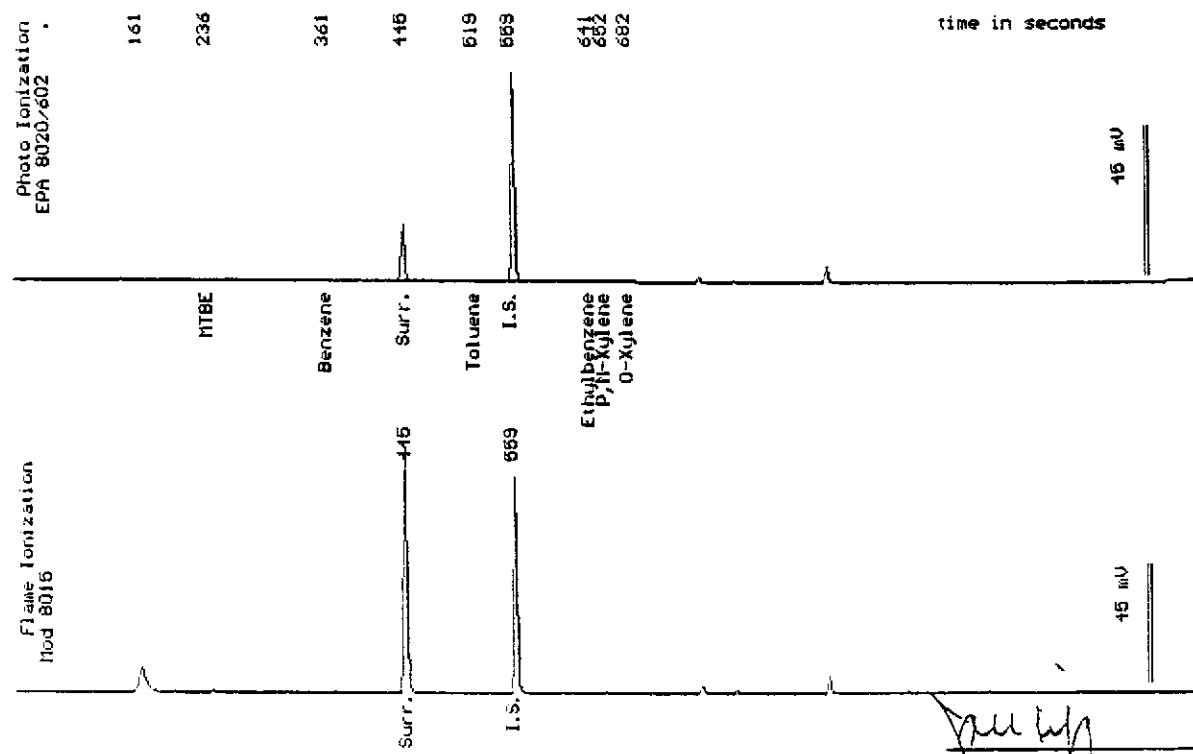
Sampled : 02/27/96

Dilution : 1:1

QC Batch : 2139f

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		102 %



Date Analyzed: 02-29-96
 Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joe Kitt
 Senior Chemist

WEST LABORATORY

Sample Log 14089

14089-02

Sample: MID

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

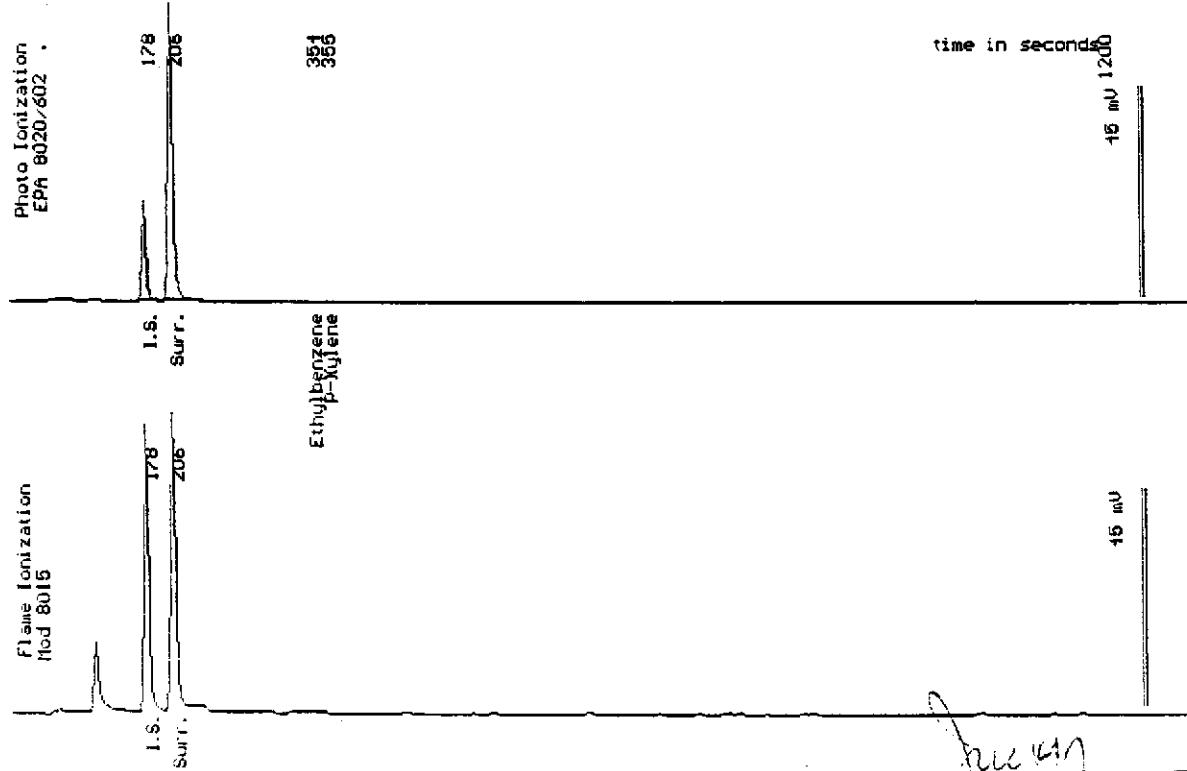
Sampled : 02/27/96

Dilution : 1:1

QC Batch : 4143S

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		114 %



Date Analyzed: 03-02-96
 Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
 Senior Chemist

WEST LABORATORY

Sample Log 14089

14089-03

Sample: influent

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

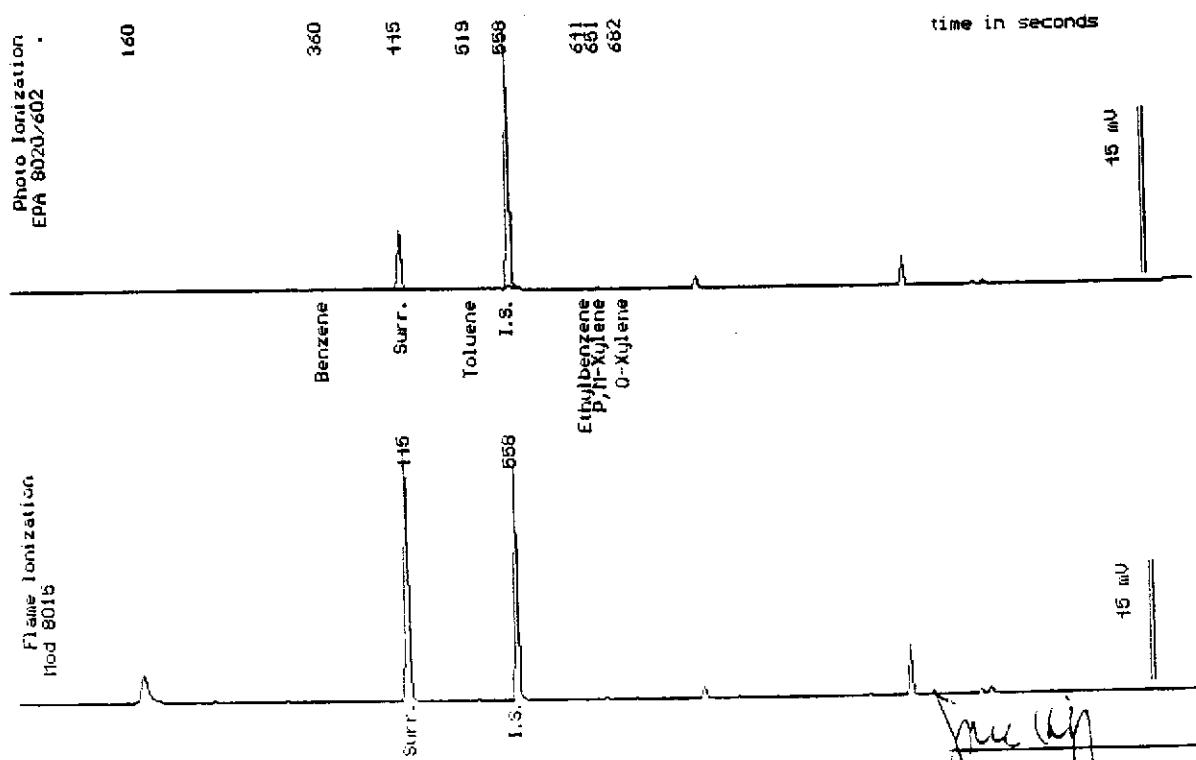
Sampled : 02/27/96

Dilution : 1:1

QC Batch : 2139f

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		102 %



Date Analyzed: 02-29-96
 Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joni Kiff
 Senior Chemist



ANALYTICAL LABORATORY

1910 S STREET SACRAMENTO, CALIFORNIA 95814 • 916-447-2946 • FAX 916-447-8321

February 29, 1996

Western Environmental Science
& Technology
1046 Olive Drive, Suite 3
Davis, CA 95616

P.O.#: 14089
PROJECT #: D093-936
PROJECT NAME: BEACON 721

Anlab I.D. AF03454

SAMPLE DESCRIPTION: 14089-01 EFFLUENT

Sample collection date: 02/27/96

Lab submittal date: 02/27/96

Turn-Around-Time: REG

Client Code: 315

Matrix: W

Time:

Time: 15:15

Sample Disposal: LAB

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
CO ₂ by EPA 410.4	mg/l	ND	3.0

ND = Not Detected

Date Analyzed: 02/28/96

Report Approved By:
ELAP ID #: 1468

:dv

ANLAB QA/QC REPORT

AF03454

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.

LCA = LAB CONTROL SAMPLE

LCS = LAB CONTROL SAMPLE
Dup RPD1 X=SAMPLE OR MATRIX SPIKE RESULT Y=DUPPLICATE OR MATRIX SPIKE DUP RESULT ((ABS(X-Y))/((X+Y)/2)*100)



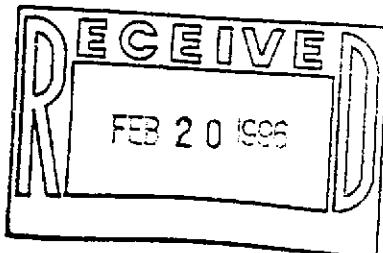
Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. 721	Sampler (Print Name) <i>Martin W. Morgan</i>	ANALYSES						Date 2/27/96	Form No. of 1	
Project No. D093-936	Sampler (Signature) <i>M.W. Morgan</i>	BTEX	TPH (gasoline)	TPH (diesel)	TSS	CDP			West Labs 916 753 9500	
Project Location San Lorenzo, CA	Affiliation Delta Env. Cons.						No. of Containers			
Sample No./Identification	Date	Time	Lab No.	BTEX	TPH (gasoline)	TPH (diesel)	TSS	CDP	REMARKS	
eluent	2/27/96	0924	14089-01	XX	XX	XX	XX	XX	4	
MID	2/27/96	0927	02	XX	XX	XX	XX	XX	2	
influent	2/27/96	0929	03	XX	XX	XX	XX	XX	2	
Relinquished by: (Signature/Affiliation) <i>M.W. Morgan</i> Delta	Date 2/27/96	Time 1350	Received by: (Signature/Affiliation)						Date	Time
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 Kittridge				Bill to:	ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: Terry Fox					
Phone 916 638 2055 fax 8385										

WEST LABORATORY

Sample Log 13892
February 05, 1996



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

Subject : 2 air and 6 water samples
Project Name : Beacon 721
Project Number : DO93-936

Dear Mr. Munsch,

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

WEST Laboratory is certified by the State of California (# 1346). If you have any questions regarding procedures or results, please call me at 916-753-9500.

Sincerely,



Joel L. Kiff

WEST LABORATORY

February 5, 1996
Sample Log 13892

MTBE (Methyl-t-butyl ether) Results

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

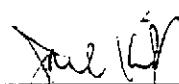
Sampled : 01/30/96

Received : 01/30/96

Matrix : Water

MTBE	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
MW-1	(13)	63
MW-3	(50)	430
MW-6	(5.0)	46
INFLUENT	(5.0)	<5.0
MID	(5.0)	<5.0
EFFLUENT	(5.0)	<5.0

Approved By:


Joe Kiff
Senior Chemist

WEST LABORATORY

Sample Log 13892
13892-01

Sample: MW-1

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

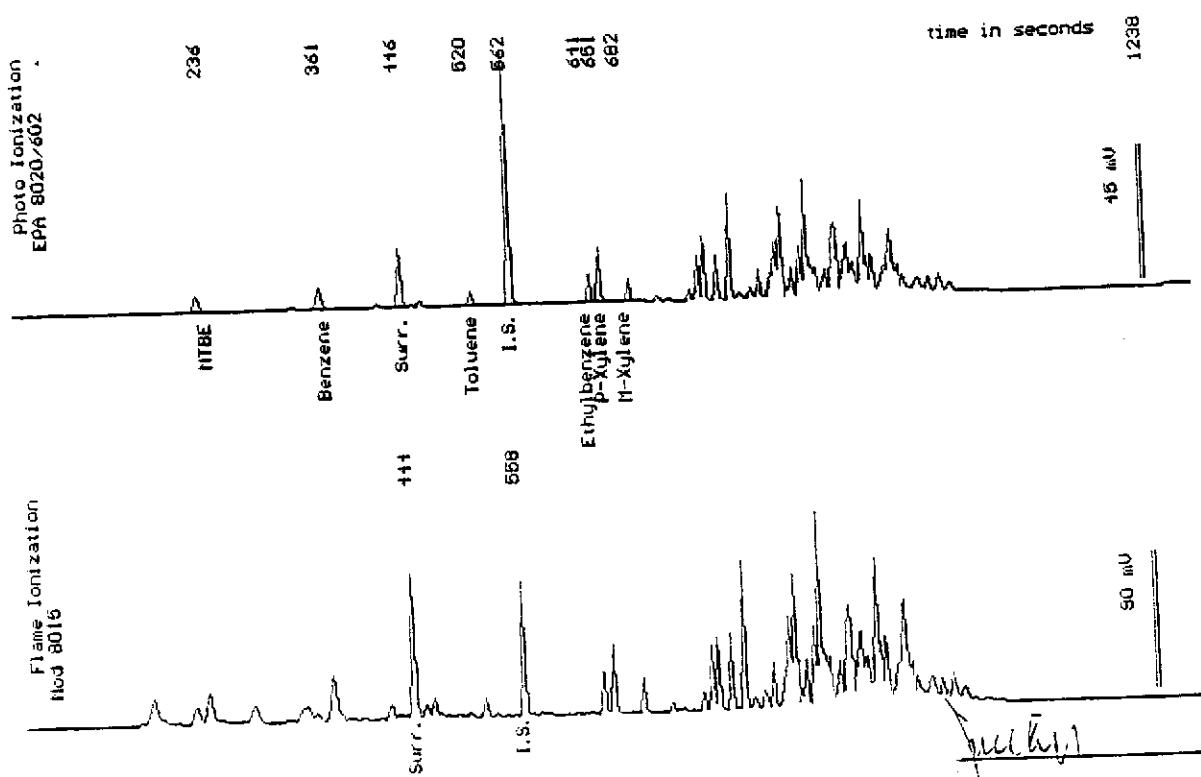
Sampled : 01/30/96

Dilution : 1:3

QC Batch : 2137Y

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(1.3)	17
Toluene	(1.3)	7.1
Ethylbenzene	(1.3)	20
Total Xylenes	(1.3)	45
TPH as Gasoline	(130)	1500
Surrogate Recovery		101 %



Date Analyzed: 01-31-96
Column : 0.53mm ID x 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

WEST LABORATORY

Sample Log 13892

13892-02

Sample: MW-3

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

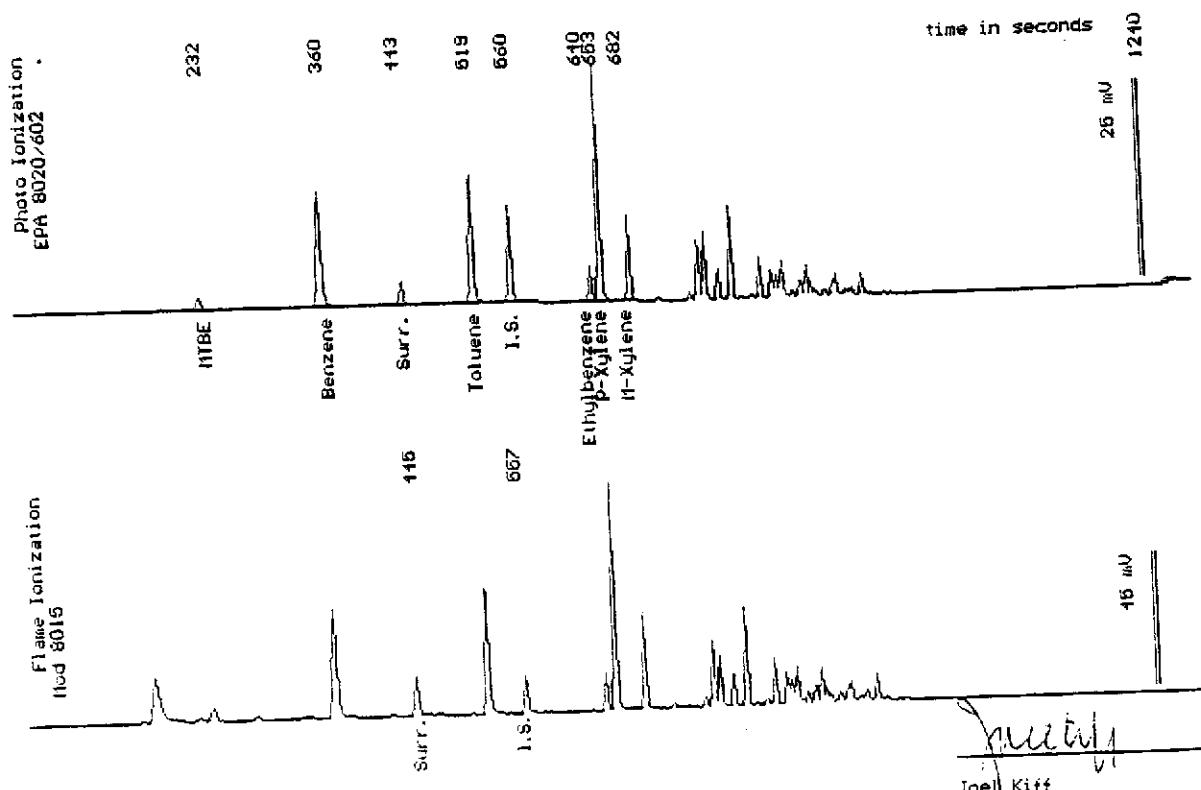
Sampled : 01/30/96

Dilution : 1:10

QC Batch : 2137Y

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(5.0)	850
Toluene	(5.0)	800
Ethylbenzene	(5.0)	190
Total Xylenes	(5.0)	1700
TPH as Gasoline	(500)	8700
Surrogate Recovery		100 %



Date Analyzed: 01-31-96
Column : 0.53mm ID X 30m DBMAX (J&W Scientific)

Joel Kiff
Senior Chemist

WEST LABORATORY

Sample Log 13892

13892-03

Sample: MW-6

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

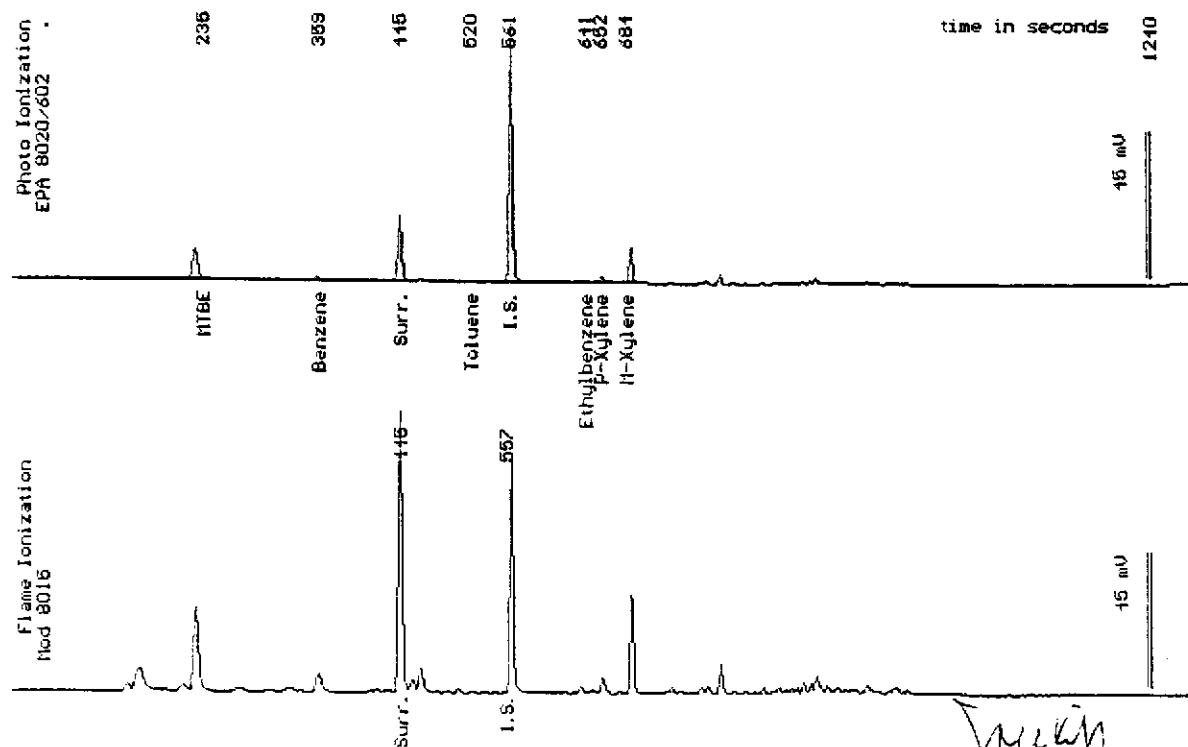
Sampled : 01/30/96

Dilution : 1:1

QC Batch : 2137Y

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(.50)	1.0
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	11
TPH as Gasoline	(50)	81
Surrogate Recovery		100 %



Date Analyzed: 01-31-96
 Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
 Senior Chemist

WEST LABORATORY

Sample Log 13892
13892-04

Sample: INFLUENT AIR

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

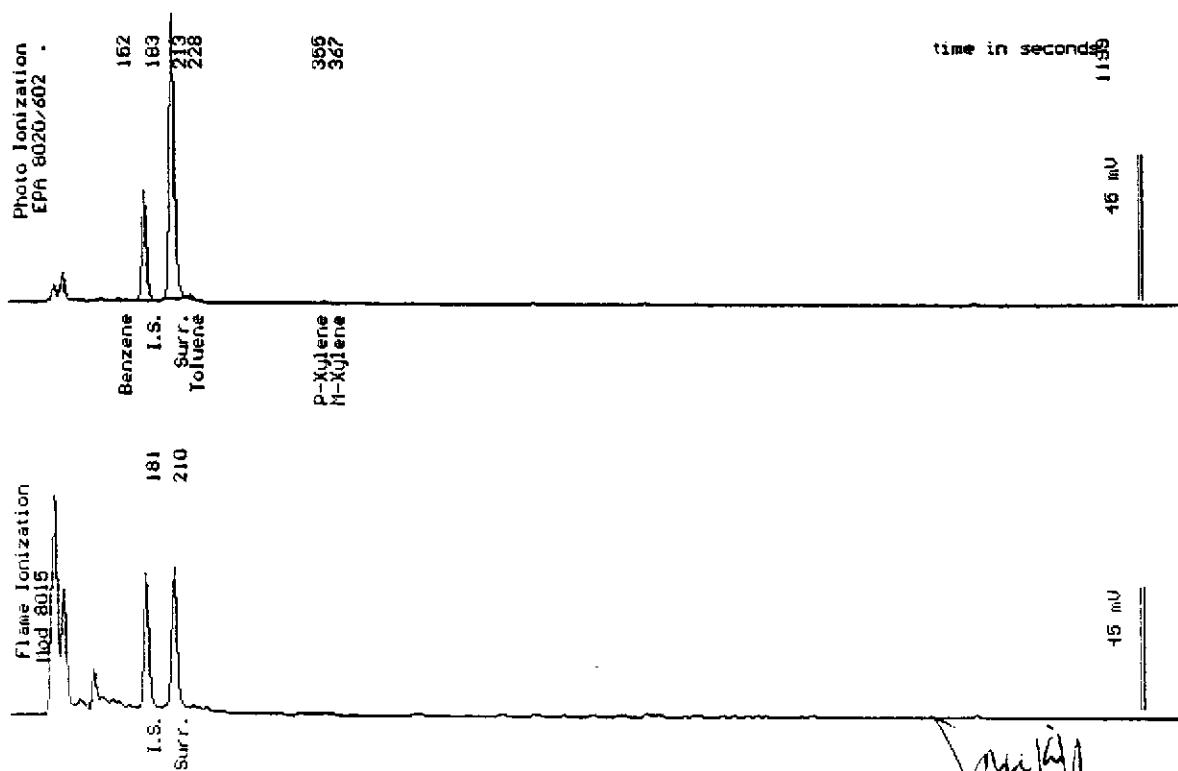
Sampled : 01/30/96

Dilution : 1:1

QC Batch : 4142J

Matrix : Air

Parameter	(MRL) Molar ppm	Measured Value Molar ppm
Benzene	(.050)	<.050
Toluene	(.050)	<.050
Ethylbenzene	(.050)	<.050
Total Xylenes	(.050)	<.050
TPH as Gasoline	(5.0)	6.0
Surrogate Recovery		98 %



Date Analyzed: 01-30-96
Column : 0.53mm ID X 30m DBMAX (J&W Scientific)

Joel Kiff
Senior Chemist

WEST LABORATORY

Sample Log 13892

13892-05

Sample: EFFLUENT AIR

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

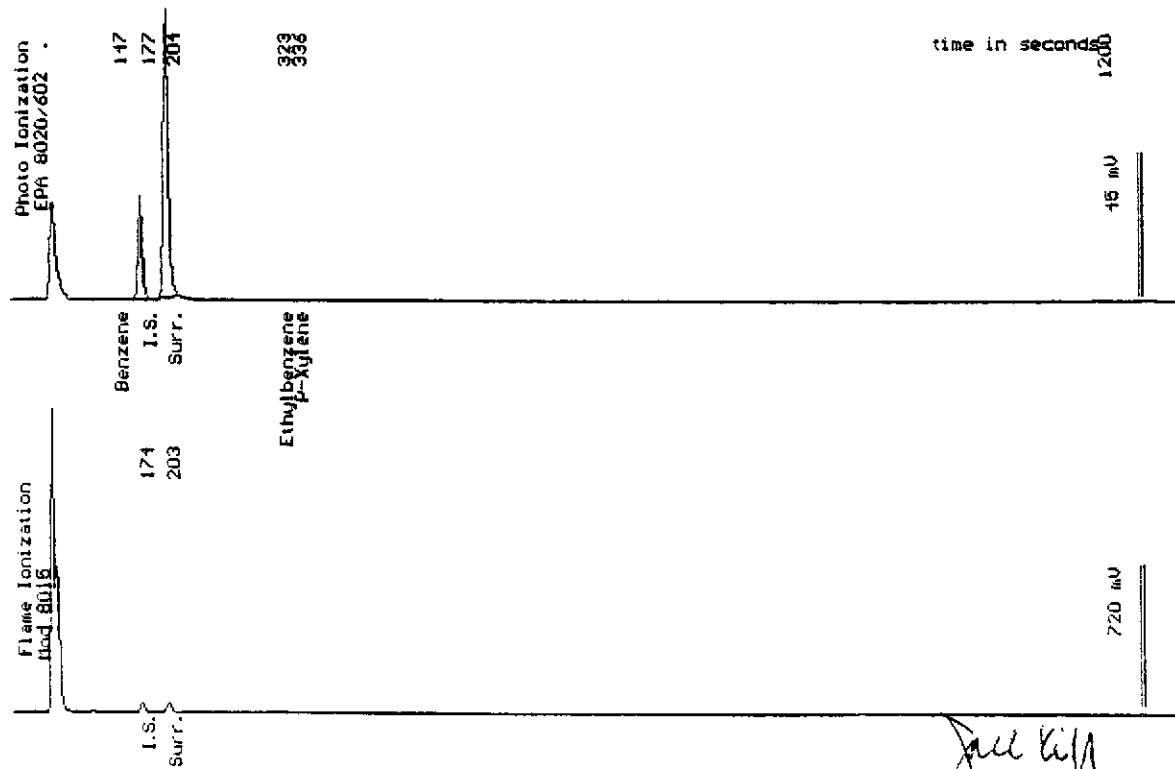
Sampled : 01/30/96

Dilution : 1:1

QC Batch : 4142JJ

Matrix : Air

Parameter	(MRL) Molar ppm	Measured Value Molar ppm
Benzene	(.050)	< .050
Toluene	(.050)	< .050
Ethylbenzene	(.050)	< .050
Total Xylenes	(.050)	< .050
TPH as Gasoline	(5.0)	36 *
Surrogate Recovery		106 %
* Product is not typical gasoline.		



Date Analyzed: 01-30-96
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

Joel Kiff

WEST LABORATORY

Sample Log 13892

13892-06

Sample: INFLUENT

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

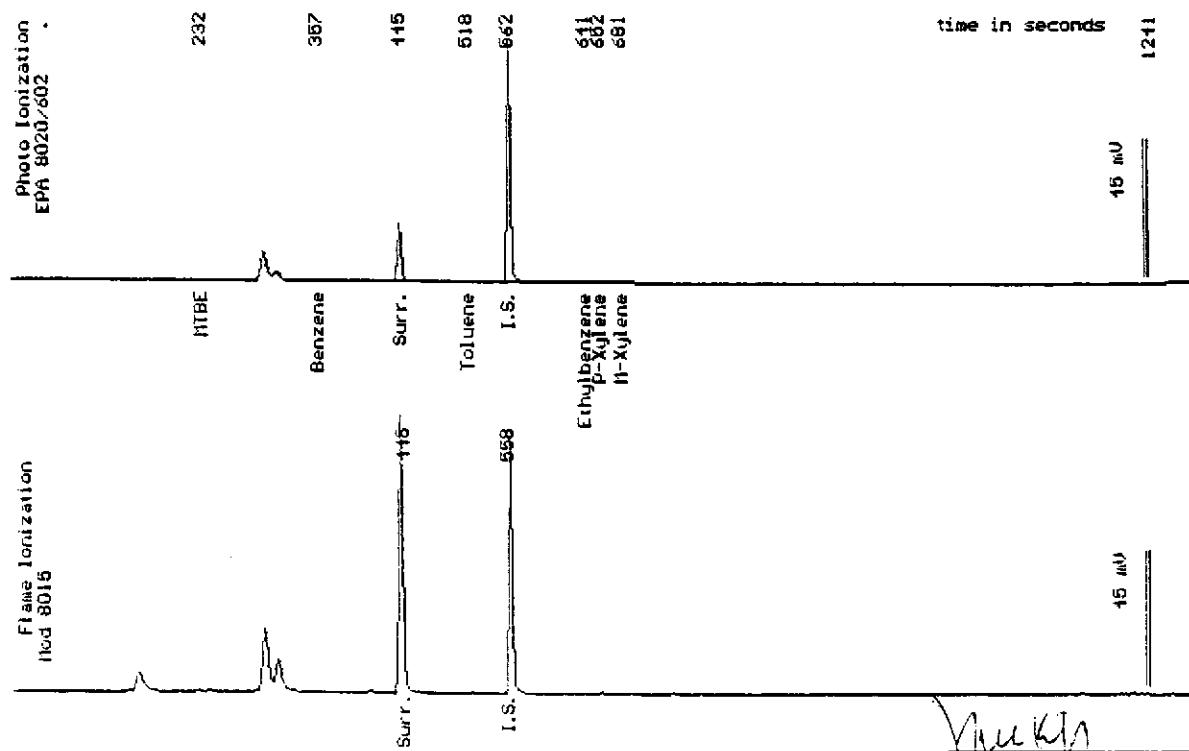
Sampled : 01/30/96

Dilution : 1:1

QC Batch : 2137Y

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: 01-31-96
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

[Signature]

WEST LABORATORY

Sample Log 13892

13892-07

Sample: MID

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

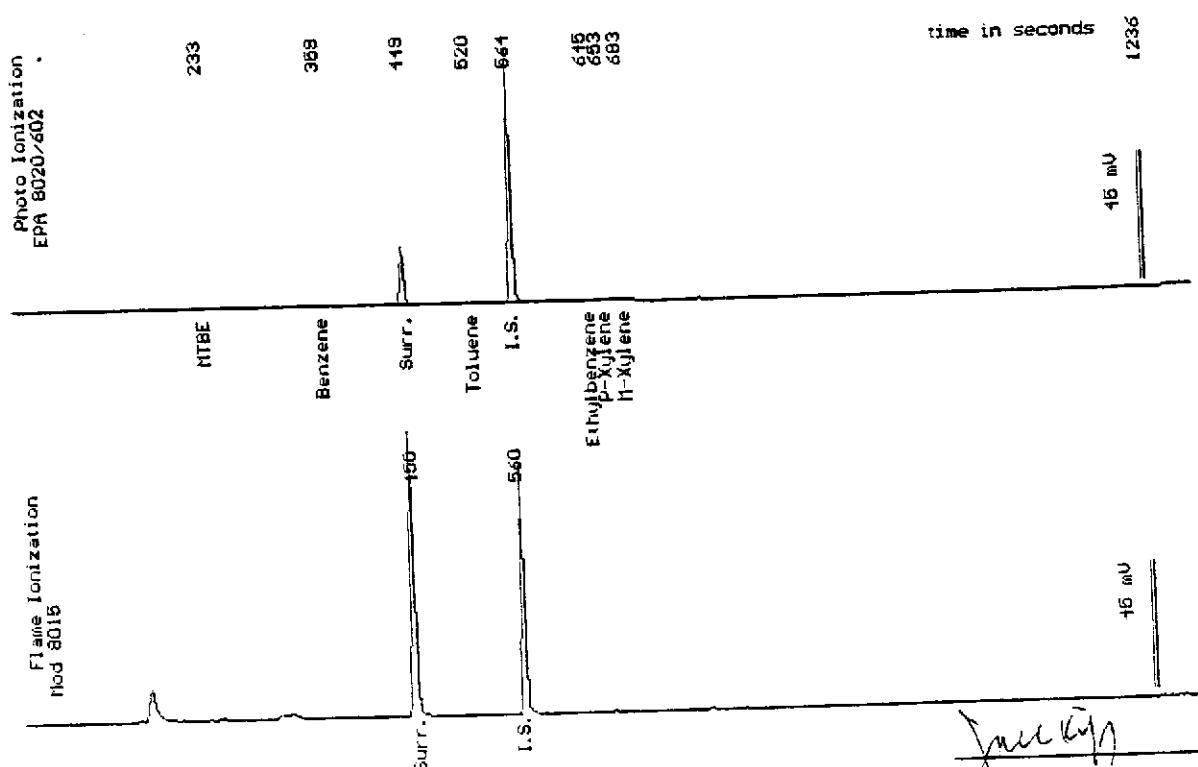
Sampled : 01/30/96

Dilution : 1:1

QC Batch : 2137Y

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		99 %



Date Analyzed: 01-31-96
Column : 0.53mm ID x 30m DBWAX (J&W Scientific)

Joe Kiff
Senior Chemist

Joe Kiff

WEST LABORATORY

Sample Log 13892

13892-08

Sample: EFFLUENT

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

Sampled : 01/30/96

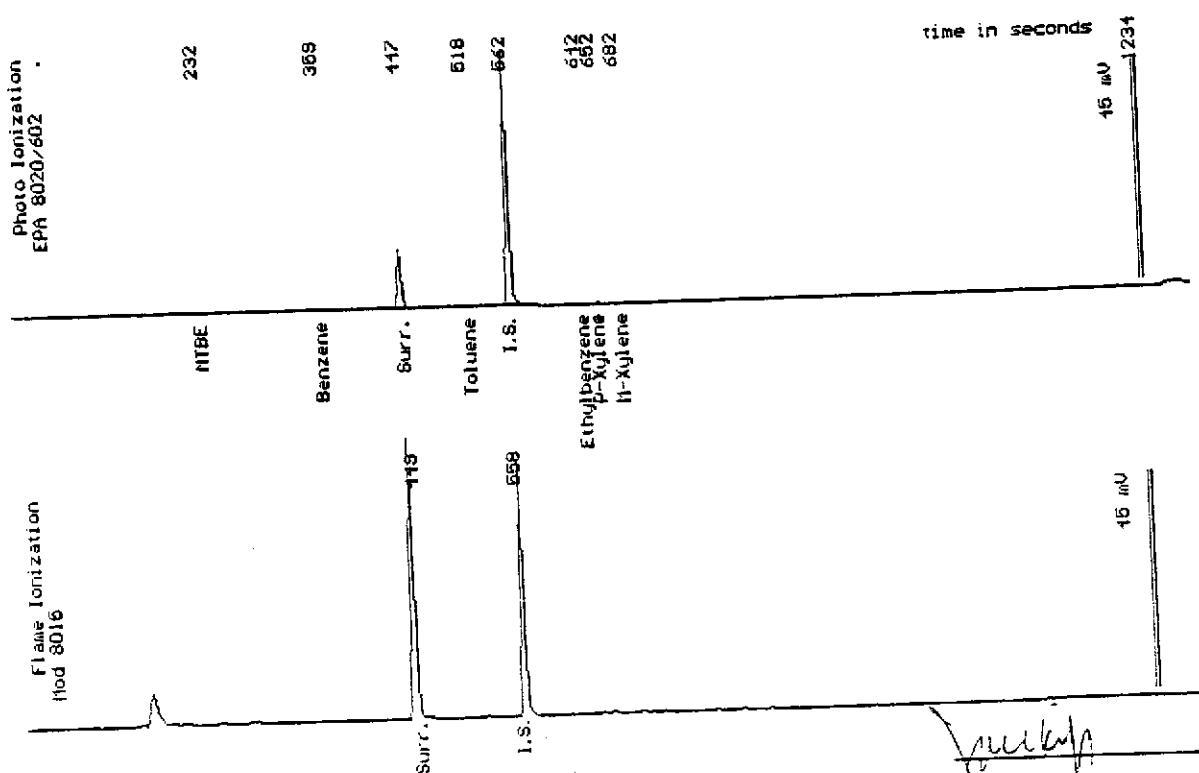
Dilution : 1:1

QC Batch : 2137Y

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
		101 %

Surrogate Recovery



Date Analyzed: 01-31-96
Column : 0.53mm ID x 30m DBWAX (J&W Scientific)

Joel Kiff
Senior Chemist

WEST LABORATORY

February 5, 1996
Sample Log 13892

From : Beacon 721 (Project # D093-936)
Date Sampled : 01/30/96
Matrix : Water
Duplicate Sample : 13906-01

Date Received : 01/30/96
Units : mg/L

Total Suspended Solids EPA Method 160.2

<u>West ID</u>	<u>Sample ID</u>	<u>Result</u>	<u>MRL</u>	<u>Blank</u>	<u>% RPD</u>	<u>Date Analyzed</u>
13892-08	effluent	<3.0	3.0	<3.0	4	02/02/96

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



ANALYTICAL LABORATORY

1910 S STREET SACRAMENTO, CALIFORNIA 95814 • 916-447-2946 • FAX 916-447-8321

February 9, 1996

Western Environmental Science
& Technology
1046 Olive Drive, Suite 3
Davis, CA 95616

P.O. #: 13892

Project #: D093-936

Project Name: Beacon-721

Anlab I.D. AF01846

Client Code: 315

SAMPLE DESCRIPTION: EFFLUENT

Matrix: W

Sample collection date: 01/30/96

Time: 10:18

Lab submittal date: 01/30/96

Time: 15:14

Turn-Around-Time: TYPE 10

Sample Disposal: LAB

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
COD by EPA 410.4	mg/l	3.7	3.0

Date Analyzed: 02/01/96

Report Approved By:
ELAP ID #: 1468

A handwritten signature in black ink that reads "Patty Bucknell".

:vas

ANLAB QA/QC REPORT

AF01846

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.

LCS = LAB CONTROL SAMPLE

LCS = LABORATORY CONTROL SAMPLE
% Dup RPD: X=SAMPLE OR MATRIX SPIKE RESULT Y=DUPPLICATE OR MATRIX SPIKE DUP RESULT ((ABS(X-Y))/((X+Y)/2))*100



Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. 721	Sampler (Print Name) Martin W. Morgan	ANALYSES				Date 1/30/96	Form No. 01 / 1	
Project No. D093-936	Sampler (Signature) 					WEST LABS. 916-753-9526		
Project Location San Lorenzo, CA	Affiliation Delta Env.					Standard Turn		
Sample No./Identification	Date	Time	Lab No.	BTEX	TPH (gasoline)	TPH (diesel)	No. of Containers	REMARKS
MW-1	1/30/96	0855	13892-01	XX			3	
MW-3		0917	02	XX			3	
MW-6		0940	03	XX			3	
influent air		1002	04	XX			1	
effluent air		1000	05	XX			1	
influent		1014	06	XX			2	
MID		1016	07	XX			2	
effluent	✓	1018	08	XX	XX		4	
Relinquished by: (Signature/Affiliation) 	Date 1/30/96	Time 1355	Received by: (Signature/Affiliation)				Date	Time
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: Richard Munsch 916 638 2085 fax 8585	Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: Terry Fox				John Mast 1/30/96/1355			
WHITE: Return to Client with Report	YELLOW: Laboratory Copy				PINK: Originator Copy			