

Reviewed by Afrech on 2/6/95

Ultramar

ALCO
HAZMAT

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

94 NOV 21 10 34 AM '94
Teletype: 209-584-6113 Credit & Wholesale
209-583-3330 Administrative
209-583-3302 Information Services
209-583-3358 Accounting

Per J. Shin's letter dated 6/30/94, there is currently no remediation plan underway for the area off-site & downgradient encompassing MW7-MW11.

November 14, 1994

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

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

Dear Ms. Shin:

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

The ground-water system was not operating when the water levels were collected so no cone of depression was observed. An additional set of data was collected on October 19, 1994, after the system was restarted and had operated for some time. Enclosed is a ground-water contour map which illustrates the cone of depression around the recovery well.

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

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ENVIRONMENTAL PROJECT QUARTERLY STATUS REPORT

DATE REPORT SUBMITTED: November 14, 1994
QUARTER ENDING: September 30, 1994

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

ULTRAMAR CONTACT: Terrence A. Fox

TEL. NO: 209-583-5545

BACKGROUND:

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

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

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

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

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

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.

SUMMARY OF THIS QUARTER'S ACTIVITIES:

Performed quarterly monitoring on September 28, 1994. Continued to operate the remediation system.

RESULT OF QUARTERLY MONITORING:

Monitoring data indicates that measurable free product was not detected in any well this quarter. Benzene concentrations remained not detected in wells MW-2, MW-4, MW-5, MW-6, MW-8, MW-9, and MW-11. The benzene concentration decreased in MW-1 from 1,800 ppb to 1,700 ppb, in MW-7 from 55 ppb to 21 ppb, in MW-10 from 5.6 ppb to 2.2 ppb, and in RW-1 from 130 ppb to 54 ppb. The benzene concentration increased in MW-3 from 6,400 ppb to 7,400 ppb.

As of September 28, 1994, approximately 1,424,246 gallons of ground water have been removed, treated, and discharged.

PROPOSED ACTIVITY OR WORK FOR NEXT QUARTER:

<u>ACTIVITY</u>	<u>ESTIMATED COMPLETION DATE</u>
Continue quarterly ground-water monitoring.	Ongoing
Continue operation of remediation system.	Ongoing



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

November 1, 1994

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

Subject: *Quarterly Ground Water Monitoring Report, Third Quarter 1994,
and Status of Remediation System through September 1994*
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 monitoring at the above-referenced site. The monitoring is intended to evaluate the presence of petroleum hydrocarbon constituents in ground water in the vicinity of the subject site and evaluate the effectiveness of the remediation system currently in operation. This letter report summarizes the results of ground water monitoring and sampling activities performed at the site on September 28, 1994, and the remediation system status through September 1994. The site location is shown in Figure 1, and site features are illustrated in Figure 2.

Quarterly ground water monitoring conducted on September 28, 1994, included measurement of depth to water in six on-site monitoring wells (MW-1 through MW-6), five off-site monitoring wells (MW-7 through MW-11), and one ground water recovery well (RW-1), subjective analyses of water samples to evaluate the presence of free petroleum product or product sheen in the monitoring wells, and collection of ground water samples for chemical analysis. Methods used in the performance of these tasks are described in Enclosure A.

Water Table Elevation Measurements, Flow Direction, and Hydraulic Gradient

Depth to ground water in the monitoring wells was measured on September 28, 1994. Depth to ground water ranged from 16.82 (MW-7) to 20.45 (MW-11) feet below the top of well casings. The water table elevation measurements indicate slight ground water mounding around MW-3. Ground water mounding could be caused by the soil vapor extraction system. Ground water table measurements recorded at the site on September 28, 1994, are compiled in Table 1 along with measurements recorded since February 1992. A water table contour map prepared from the September 28, 1994 data is included as Figure 3.

Free Petroleum Product or Product Sheen

The presence of separate phase petroleum product or product sheen in the monitoring wells was evaluated using procedures described in Enclosure A. On September 28, 1994 site visit, no liquid phase hydrocarbons or product sheen was observed.

Ground Water Analytical Results

Ground water samples were collected from monitoring wells MW-1 through MW-11, and ground water recovery well RW-1 on September 28, 1994. Sampling procedures are described in Enclosure A, and copies of the sampling information data sheets are included in Enclosure B.

The ground water samples were submitted for analysis of benzene, toluene, ethylbenzene, xylenes, and total petroleum hydrocarbons as gasoline. Benzene was not detected in monitoring wells MW-2, MW-4, MW-5, MW-6, MW-8, MW-9, and MW-11. Detectable benzene concentrations ranged from 2.2 parts per billion (ppb) (MW-10) to 7,400 ppb (MW-3). A comparison of the September 1994 analytical results with the June 1994 results indicate that the benzene concentrations decreased in MW-1 (1,800 to 1,700 ppb), MW-7 (55 to 21 ppb), RW-1 (130 to 54 ppb), and MW-10 (5.6 to 2.2 ppb), and increased in MW-3 (6,400 to 7,400 ppb). Results of the chemical analyses for the September 28, 1994, sampling event are summarized in Table 2, and copies of the certified analytical reports are included in Enclosure C. A benzene isoconcentration contour map is included as Figure 4.

Status of Remediation System

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

The ground water treatment system was not operational on the September 28, 1994, sampling event due to failure of the mechanical seal on transfer pump number 1. The ground water system ran intermittently throughout the third quarter 1994, and only 11,260 gallons were treated. The volume of ground water treated by the remediation system through September 28, 1994, is 1,424,246 gallons as shown in Table 3.

The soil vapor extraction system was started in March 1994 and is operational. The permit to operate the soil vapor extraction system was issued on June 8, 1994, by the Bay Area Air Quality Management District.

Remediation System Analytical Results

Due to the ground water system's intermittent operations and mechanical seal failure, remediation system samples were not collected at the sewer discharge location. Results of the chemical analysis are summarized in Table 4.

Mr. Terrence A. Fox
Ultramar Inc.
November 1, 1994
Page 3

Remarks\Signatures

The interpretations contained in this report represent our professional opinions, and are based in part, on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

It is recommended that copies of this letter report be forwarded to:

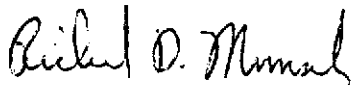
Mr. Steven Ritchie
California Regional Water Quality Control Board,
Region 2
2101 Webster Street
Oakland, California 94612

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

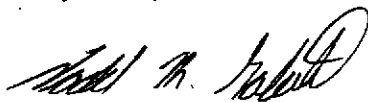
If you have any questions, please call me at (916) 638-2085.

Sincerely,

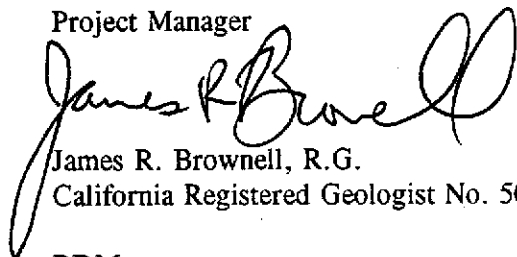
DELTA ENVIRONMENTAL CONSULTANTS, INC.



Richard D. Munsch
Project Engineer



Todd M. Galati
Project Manager



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

RDM (LRP478.TA)
Enclosures

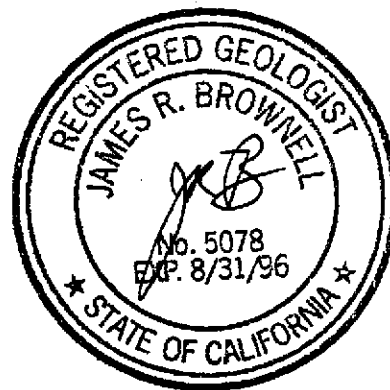


TABLE 1

GROUND WATER ELEVATIONS

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

<u>Monitoring Well</u>	<u>Date</u>	<u>Top of Riser Elevation (ft)*</u>	<u>Depth to Water (ft)</u>	<u>Ground Water Elevation (ft)</u>	<u>Physical Observation of Free Product or Sheen</u>
MW-1	02/18/92	43.67	16.42	27.25	
	05/14/92		17.28	26.39	
	08/27/92		19.48	24.19	
	11/19/92		20.57	23.10	
	02/03/93		15.91	27.76	
	06/23/93		16.21	27.46	No free product or sheen
	09/22/93		17.85	25.82	No free product or sheen
	01/24/94		17.91	25.76	
	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		
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		
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		

TABLE 1-Continued

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-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
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
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

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
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
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

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-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 ^b	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		
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		

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>
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

^a All top of riser elevations surveyed by Aegis Environmental.

^b Not Measured.

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

TABLE 2

GROUND WATER SAMPLE ANALYTICAL RESULTS

Concentrations in parts per billion (ppb)

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

Monitoring Well	Date Sampled	Benzene	Toluene	Ethylbenzene	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	
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	
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	

TABLE 2-Continued

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

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

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

TABLE 2-Continued

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

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

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

TABLE 2-Continued

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

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

<u>Monitoring Well</u>	<u>Date Sampled</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>	<u>TPH^a as gasoline</u>
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
	MW-11	02/18/92	<0.5	<0.5	<0.5	<0.5
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	

TABLE 2-Continued

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

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

Monitoring Well	Date Sampled	Benzene	Toluene	Ethylbenzene	Xylenes	TPH ^a as gasoline
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

^a Total petroleum hydrocarbons.

^b Not Sampled.

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

TABLE 3

VOLUME OF GROUND WATER TREATED
by Remediation System

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

<u>Date</u>	<u>Volume^a (gallons)</u>
06/21/93	2,120
07/14/93	117,367
08/14/93	210,470
09/22/93	255,241
01/24/94	1,242,108
03/31/94	1,353,840
06/21/94	1,412,980
09/28/94	1,424,246

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

TABLE 4

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

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

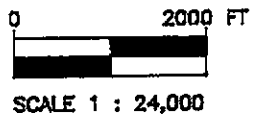
<u>Sample</u>	<u>Date</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Total Xylenes</u>	<u>TPH^a as gasoline</u>
Effluent	05/28/93	<0.5	<0.5	<0.5	<0.5	<50
	10/01/93	<0.5	<0.5	<0.5	<0.5	<50
	01/24/94	<0.5	<0.5	<0.5	<0.5	<50
	04/07/94	<0.5	<0.5	<0.5	<0.5	<50
	05/18/94	<0.5	<0.5	<0.5	<0.5	<50
	09/28/94	NS ^b	NS	NS	NS	NS

^a Total petroleum hydrocarbons.

^b Not sampled.



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



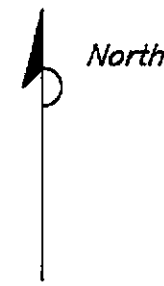
R.2 W.

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

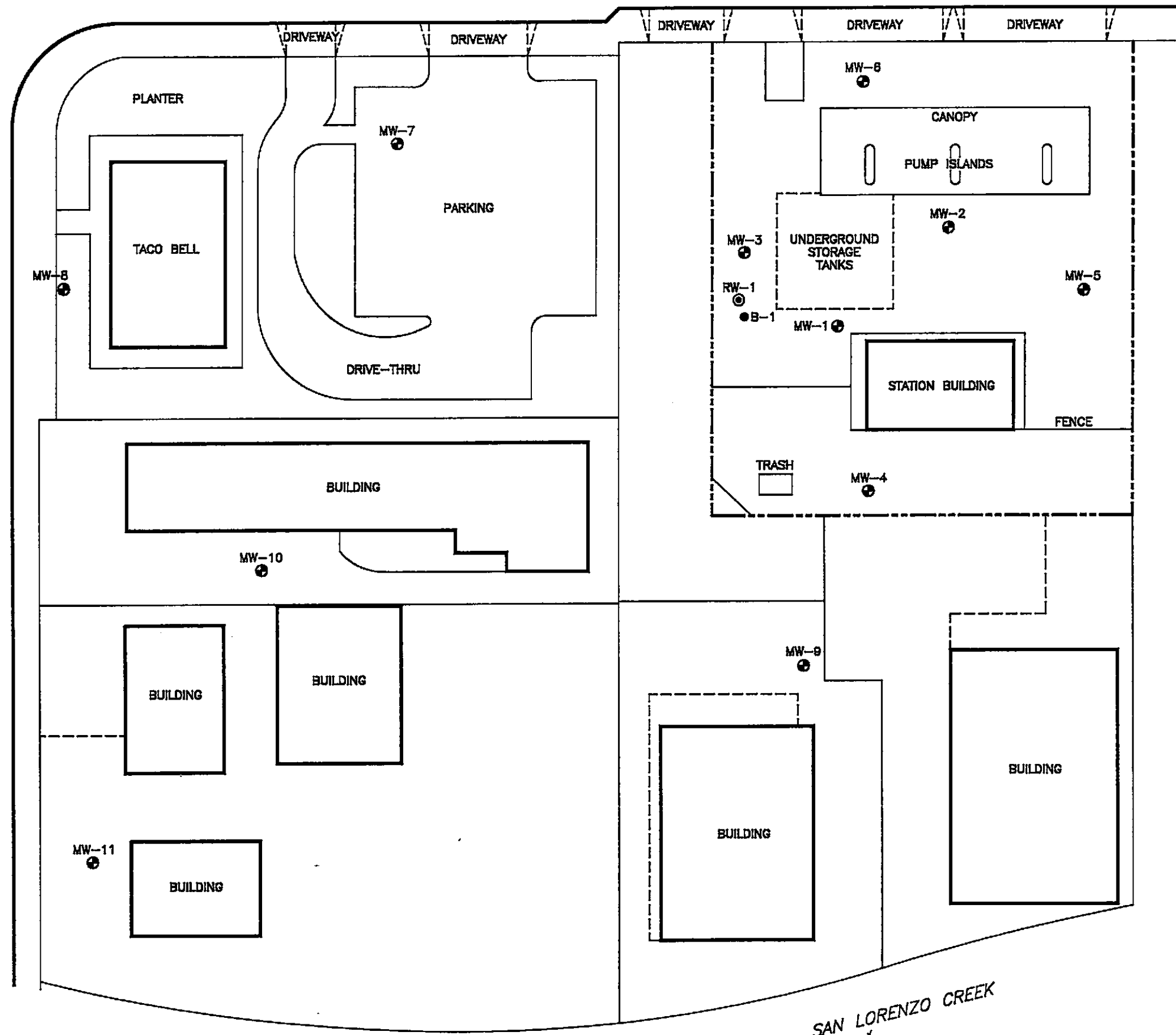
PROJECT NO. 40-93-936	DRAWN BY L.H. 11/2/92
FILE NO.	PREPARED BY TMG
REVISION NO.	REVIEWED BY



LEWELLING BOULEVARD



VIA GRANADA



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

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

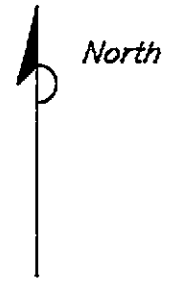


FIGURE 2
SITE VICINITY MAP
 BEACON STATION NO. 721
 44 LEWELLING BOULEVARD
 SAN LORENZO, CA.

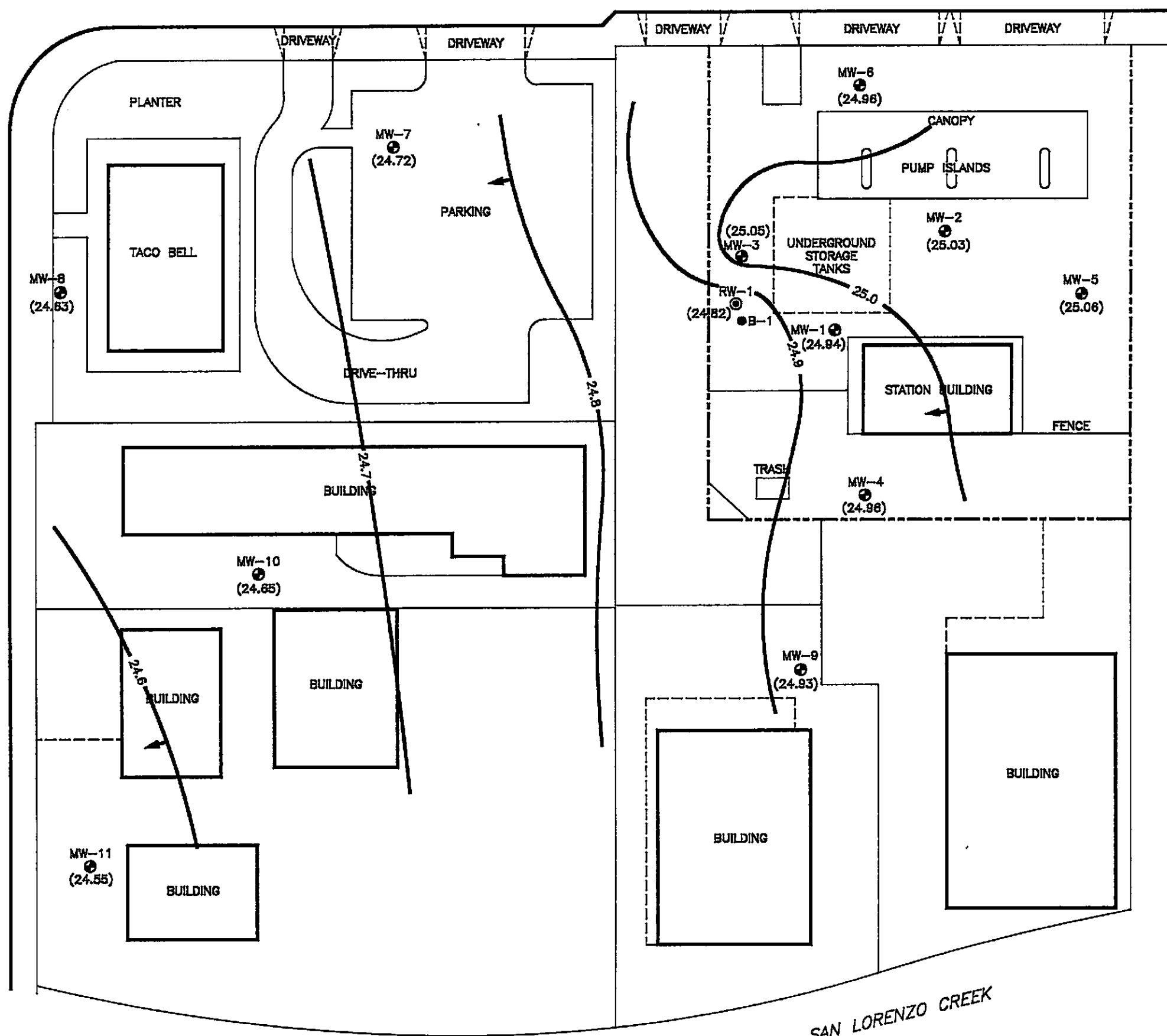
PROJECT NO. 40-93-936	DRAWN BY L.H. 8/11/93
FILE NO. 93-936-1	PREPARED BY JRB
REVISION NO. 1	REVIEWED BY [Signature] 3/11/93

Delta
Environmental
Consultants, Inc.

LEWELLING BOULEVARD



VIA GRANADA



LEGEND:

- B-1 SOIL BORING LOCATION
- ⊙ RW-1 RECOVERY WELL LOCATION
- ⊕ MW-1 MONITORING WELL LOCATION
- (24.94) GROUND WATER ELEVATION RELATIVE TO AN ASSUMED BENCH MARK
- 24.5 — WATER TABLE CONTOUR RELATIVE TO AN ASSUMED BENCH MARK
- ← GROUND WATER FLOW DIRECTION

NOTE:

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



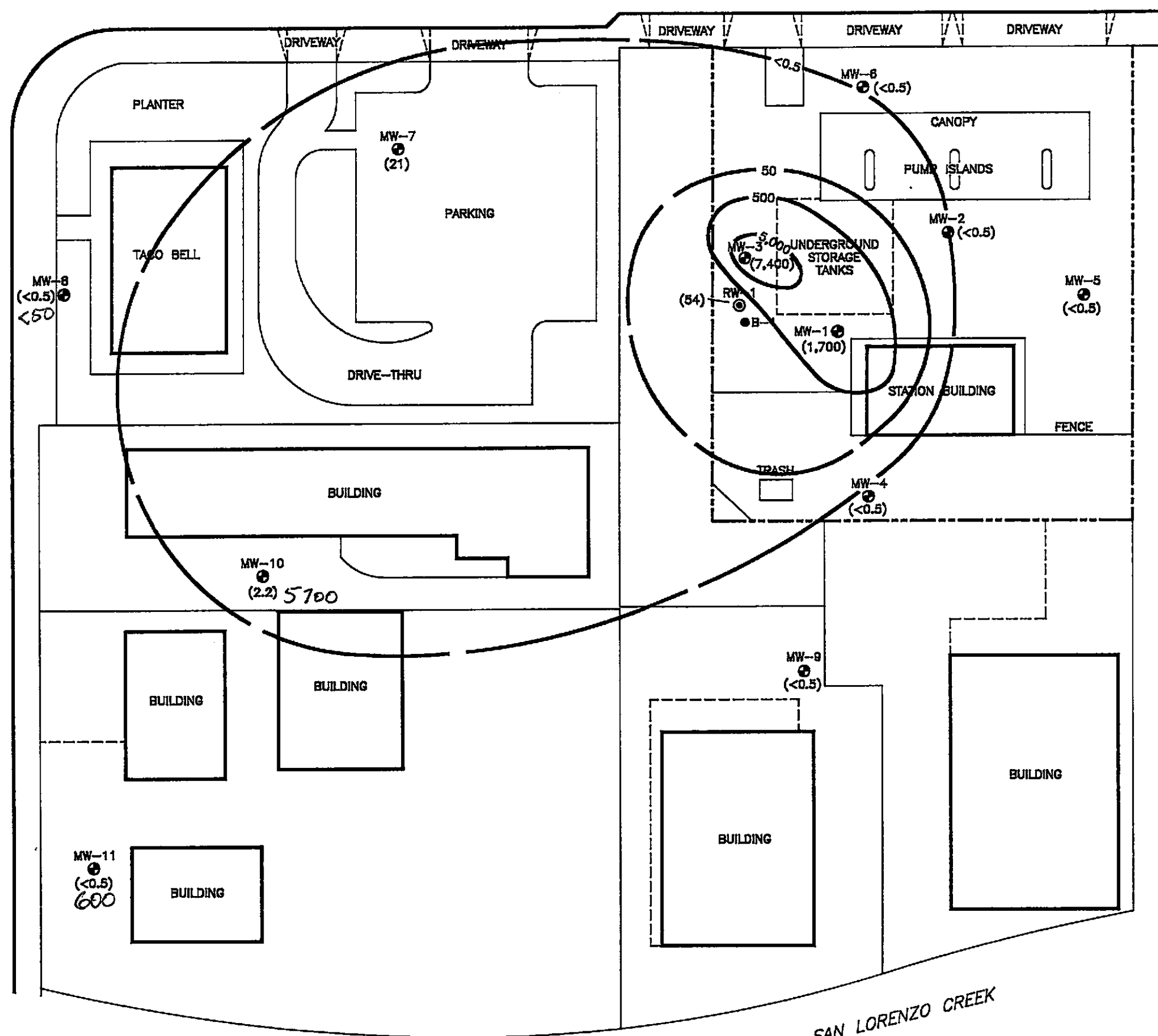
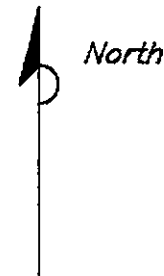
FIGURE 3
 WATER TABLE CONTOUR MAP - 9/28/94
 BEACON STATION NO. 721
 44 LEWELLING BOULEVARD
 SAN LORENZO, CA.

PROJECT NO. D083-838	DRAWN BY L.H. 10/10/84
FILE NO. 93-938-1	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY JTB 10/14/94



SAN LORENZO CREEK

LEWELLING BOULEVARD



- LEGEND:
- B-1 SOIL BORING LOCATION
 - ⊙ RW-1 RECOVERY WELL LOCATION
 - ⊕ MW-1 MONITORING WELL LOCATION
 - (1,700) BENZENE CONCENTRATION IN PARTS PER BILLION
 - 50— BENZENE ISOCONCENTRATION CONTOUR IN PARTS PER BILLION

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

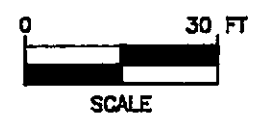


FIGURE 4
BENZENE ISOCONCENTRATION CONTOUR MAP
 9/28/94

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

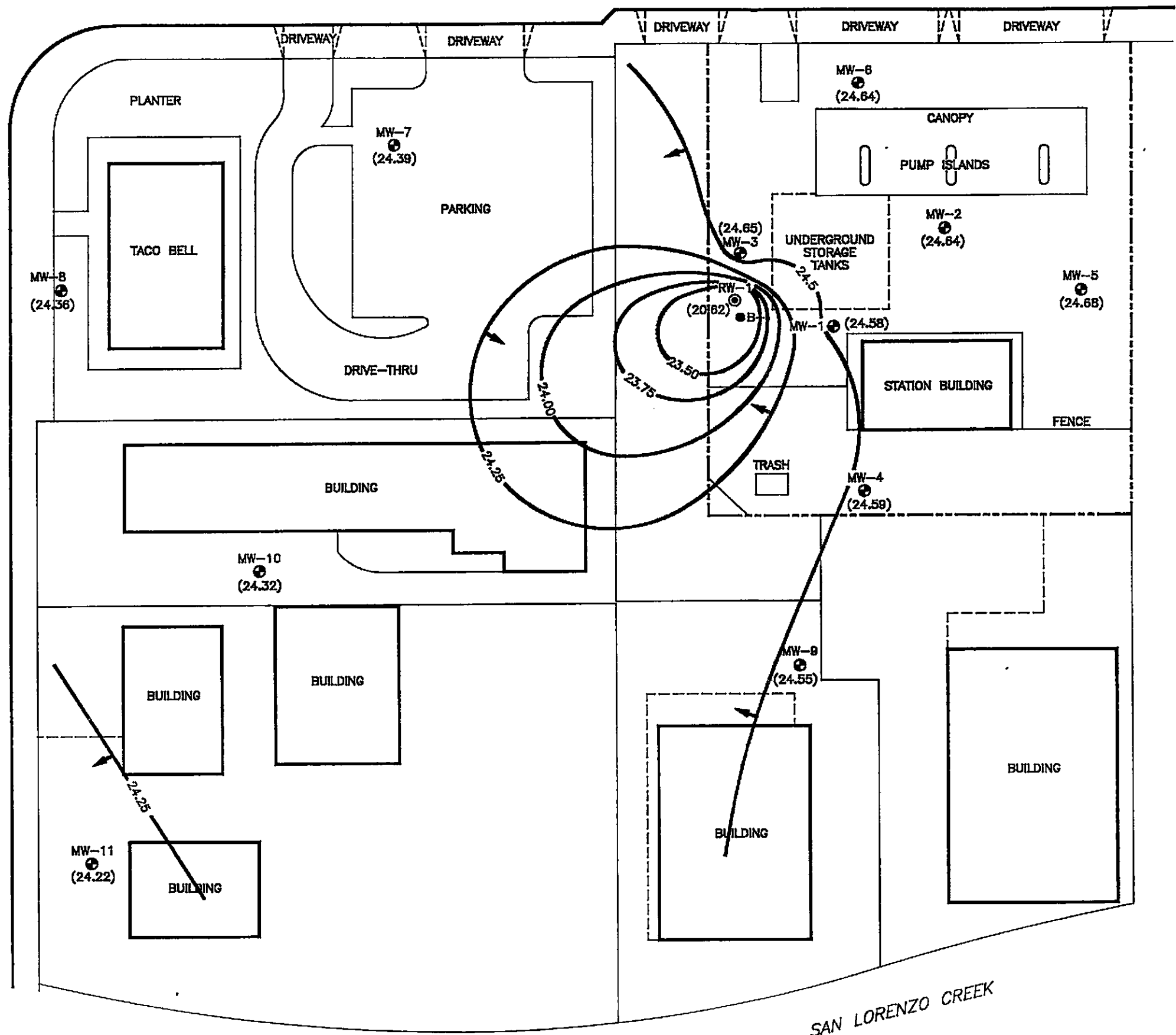
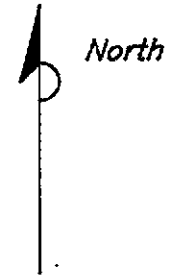
PROJECT NO. D083-838	DRAWN BY L.H. 10/10/94
FILE NO. 83-838-1	PREPARED BY RDM
REVISION NO. 1	REVIEWED BY <i>JRD 10/14/94</i>

Delta Environmental Consultants, Inc.

VIA GRANADA

SAN LORENZO CREEK

LEWELLING BOULEVARD



LEGEND:

- B-1 SOIL BORING LOCATION
- ⊙ RW-1 RECOVERY WELL LOCATION
- ⊕ MW-1 MONITORING WELL LOCATION
- (24.58) GROUND WATER ELEVATION RELATIVE TO AN ASSUMED BENCH MARK
- 24.25 - WATER TABLE CONTOUR RELATIVE TO AN ASSUMED BENCH MARK
- ← GROUND WATER FLOW DIRECTION

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

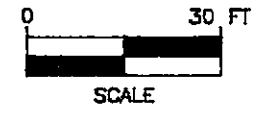


FIGURE 5
 WATER TABLE CONTOUR MAP - 10/19/94
 BEACON STATION NO. 721
 44 LEWELLING BOULEVARD
 SAN LORENZO, CA.

PROJECT NO. D093-936	DRAWN BY L.H. 11/7/94
FILE NO. 93-936-1	PREPARED BY JRB
REVISION NO. 2	REVIEWED BY JRB 11/8/94

Delta
Environmental
Consultants, Inc.

VIA GRANADA

SAN LORENZO CREEK

1.0 GROUND WATER AND FREE-FLOATING PRODUCT DEPTH DETERMINATION

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

2.0 SUBJECTIVE ANALYSIS OF GROUND WATER

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

3.0 MONITORING WELL PURGING AND SAMPLING

Monitoring wells were purged using a centrifugal pump with new disposable tubing. Monitoring wells were sampled using new 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 purging, ground water levels were allowed to stabilize. Samples were collected in air-tight vials, appropriately labeled and stored on ice from the time of collection through the time of delivery to the laboratory. A chain-of-custody form was completed to ensure sample integrity. Ground water samples were transported to the laboratory and analyzed within the EPA-specified holding times for the requested analyses.

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Ground Water Level Data

PROJECT: BEACON 721

DELTA PROJECT NO.: D093-9364.0015

DATE: 7-28-94

RECORDED BY: CHILL-Manty

MEASURING DEVICE: Slope

Well No.	Time	Reference Elevation	Depth to G.W.	Elevation	Free Product Thickness	Physical Observations/Comments
MW-1	0959	43.67	18.73			31.20 TOTAL DEPTH
MW-2	1003	43.09	18.06			33.30
MW-3	0955	43.10	18.05			29.30
MW-4	1001	44.66	19.70			24.60
MW-5	0914	43.79	18.73			29.20
MW-6	0953	42.47	17.51			28.70
MW-7	0948	41.54	16.82			24.30
MW-8	0955	42.26	17.63			23.20
MW-9	0951	44.94	20.01			23.80
MW-10	0944	42.34	17.69			29.50
MW-11	0938	45.00	20.45			29.50 TOTAL DEPTH
RW-1	0956	43.17	18.35			

* Measured from top of riser unless otherwise noted.

9-28-94
CH12-plant

Beacon 721

D093-936

50

0910 onsite to sample wells
Systems Down

Sample Wells

1041 MW10

1045 MW11

1111 MW8

1114 MW7

1142 MW5

1144 MW2

1216 MW6

1238 MW9

1233 MW1

1253 MW4

1259 MW3

1340 RW1

All Wells Bailed

Pumped with Honda Pump

1340: VES down due to therm OIDs tripped, reset O'loads & restarted; placed back at same readings as prior visit...

thermox hrs - 1800.3

Investigated GWsys problems - need to use hose to repair broken flange, probable compressor problems due to press. Switch...

1415 Dept Site VES in Auto; GWsys down...

SAMPLING INFORMATION SHEET

Weather Conditions _____

Cloud Cover _____

Temperature _____

Wind Speed _____

GENERAL CONDITIONS

Sample ID# MW-10

Project BEACON 721

Location 44 LEWELLING BLVD.
SAN LORENZO, CA

W.G. # D093-936-4,0015

Sampling Point MW-10

Date Sampled 9 / 28 / 94 Time 1041

Describe Sampling Point SEE SITE MAP

Well Depth 29.50 ft. below MP

Casing diameter 2 inches

Depth to water (below MP) 17.69 ft.

Date 9 / 28 / 94

Time 0944

Discharge rate _____ gpm x 0.00226 = _____ cfs

At least 4 Well volumes have been evacuated before sampling.

Sampling Method _____ Tap _____ Submersible pump _____ Zeiss _____ Other _____

Pump intake or bailer set at _____ ft. below MP

Tubing (type DISPOSABLE BAILER or previously used) was used to collect all samples Yes _____ No
and all field measurements (Yes _____ No). Tubing was used only for MW-10

Sample appearance _____

Note any sampling problems _____

Note any cleaning performed in the field SLOPE INDICATOR

Samples collected 2 VOAS - TESTED FOR BTEX / TPHg

EVACUATION/STABILIZATION TEST DATA

Time	pH Units	Yield Temperature Corrected Conductance (umhos/cm)	Temperature (F)	Water Level (Nearest 0.01 ft.)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1020	8.2	1.34	67.7		0 GAL	
1028	7.2	.84	67.3		4 GAL	
1036	7.0	.84	67.2		8 GAL	
					8	

Ending start time: _____ WL: _____

Ending stop time: _____ WL: _____

Comments: _____

Preservation (thermal preservation) COOLER & ICE

Form completed by: CHILL

Sampled by: CHILL

SAMPLING INFORMATION SHEET

Weather Conditions _____

Cloud Cover: _____

Temperature: _____

Wind Speed: _____

GENERAL CONDITIONS

Sample ID: MW-11

Project: BEACON 721

Location: 44 LEWELLING BLVD. SAN LORENZO, CA

W.O. #: D093-936-4.0015

Sampling Point: MW-11

Date Sampled: 9/28/94

Time: 1045

Description Sampling Point: SEE SITE MAP

Well Depth: 29.50 ft. below MP

Casing diameter: 2 inches

Depth to water (below MP): 20.45 ft.

Date: 9/28/94

Time: 0938

Discharge rate: _____ gpm @ 100' = _____ cfs

At least 4 Well volumes have been evacuated before sampling.

Sampling Method: _____ Tap _____ Submersible pump _____ Bailar _____ Other _____

Pump intake or bailar set at _____ ft. below MP

Tubing (type: DISPOSABLE BAILAR) (new or previously used) was used to collect all samples Yes _____ No and all field measurements (Yes _____ No). Tubing was used only for MW-11

Sample appearance: _____

Note any sampling problems: _____

Note any cleaning performed in the field: SLOPE INDICATOR

Samples collected: 2 VOAS - TESTED FOR BTEX/TPH9

EVACUATION/STABILIZATION TEST DATA

Time	pH Units	Temperature Corrected Conductance (micromhos/cm)	Temperature (°F)	Water Level (Nearest 0.01 ft.)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1027	7.03	686	65		2	
1034	6.93	664	65		4	
1042	6.92	681	65		6	
					legal	

Evacuation start time: 10:20

WL: 20.45

Evacuation stop time: 10:42

WL: _____

Comments: _____

Transportation (thermal preservation): COOLER & ICE

Form completed by: MWIN-Chill

Sampled by: MWIN

SAMPLING INFORMATION SHEET

Weather Conditions _____

Cloud Cover _____

Temperature _____

Wind Speed _____

GENERAL CONDITIONS

Sample ID# MW-8

Project BEACON 721

Location 44 LEWELLING BLVD.
SAN LORENZO, CA

W.D. # DO93-936-4,0015

Sampling Point MW-8

Date Sampled 9/28/94 Time 1111

Describe Sampling Point SEE SITE MAP

Well Depth 23.20 ft. below MP

Casing diameter 2 inches

Depth to water (below MP) 17.63 ft.

Date 9/28/94

Time 17.63

Discharge rate _____ gpm x 0.00226 = _____ cfs

At least 4 Well volumes have been evacuated before sampling.

Sampling Method _____ Tap _____ Submersible pump _____ Bailor _____ Other _____

Pump intake or bailor set at _____ ft. below MP

Tubing (type: DISPOSABLE BAILOR; ~~new~~ or previously used) was used to collect all samples Yes _____ No
and all field measurements (Yes _____ No). Tubing was used only for MW-8

Sample appearance _____

Note any sampling problems _____

Note any cleaning performed in the field SLOPE INDICATOR

Samples collected 2 VOAS - TESTED FOR BTEX / TPH₉

EVACUATION/STABILIZATION TEST DATA

Time	pH Units	Temperature Corrected Conductance (umhos/cm)	Temperature (F)	Water Level (Nearest 0.01 ft.)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1059	8.4	.28	66.6		0 GML	
1102	7.7	.28	66.7		2 GML	
1107	7.4	.28	66.7		4 GML	
					4 gal	

Boiling start time: _____ WL _____

Boiling stop time: _____ WL _____

Comments: _____

Temperature (thermal preservation) COOLER & ICE

Form completed by: CHILL

Sampled by: CHILL

SAMPLING INFORMATION SHEET

Weather Conditions _____

Cloud Cover _____

Temperature _____

Wind Speed _____

GENERAL CONDITIONS

Sample ID: MW-7

Project: BEACON #21

Location: 44 LEWELLING BLVD.
SAN LORENZO, CA

W.D. #: DO93-936-4,0015

Sampling Point: MW-7

Date Sampled: 9/28/94

Time: 1114

Describe Sampling Point: SEE SITE MAP

Well Depth: 24.30 ft. below MP

Casing diameter: 2 inches

Depth to water (below MP): 16.82 ft.

Date: 9/28/94

Time: 0948

Discharge rate: _____ gpm ± 0.00001 = _____ cfs

At least 4 Well volumes have been evacuated before sampling.

Sampling Method: _____ Tap _____ Submersible pump _____ Raiser _____ Other _____

Pump intake or bailer set at _____ ft. below MP

Tubing (type: DISPOSABLE BAILER) (new or previously used) was used to collect all samples Yes _____ No
and all field measurements (Yes _____ No). Tubing was used only for MW-7

Sample appearance: _____

Note any sampling problems: _____

Note any cleaning performed in the field: SLOPE INDICATOR

Samples collected: 2 VOAS - TESTED FOR BTEX / TPH₉

EVACUATION/STABILIZATION TEST DATA

Time	pH Units	Temperature Corrected Conductance (µmhos/cm)	Temperature (F)	Water Level (Nearest 0.01 ft.)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1106	7.36	1150	68			
1112	6.71	1107	68			
	6.66	1110	68			
					5 gal	

Sealing start time: 1100

WL: 16.82

Sealing stop time: _____

WL: _____

Comments: _____

Transportation (thermal preservation): COOLER & ICE

Form completed by: _____

Sampled by: _____

SAMPLING INFORMATION SHEET

Weather Conditions _____

Cloud Cover: _____

Temperature: _____

Wind Speed: _____

GENERAL CONDITIONS

Sample ID# MW-5
 Location 44 LEWELLING BLVD.
 SAN LORENZO CA

Project BEACON 721
 W.O. # DO93-936-4.0015
 Date Sampled 9 / 28 / 94 Time 1147

Sampling Point MW-5
 Describe Sampling Point SEE SITE MAP

Well Depth 29.20 ft. below MP Casing diameter 2 inches

Depth to water (below MP) 18.73 ft. Date 9 / 28 / 94 Time 0914

Discharge rate _____ gpm x 0.00224 = _____ cfs.

At least 4 Well volumes have been evacuated before sampling.

Sampling Method _____ Tap _____ Submersible pump _____ Bailor _____ Other _____

Pump intake or bailor set at _____ ft. below MP

Tubing (type: DISPOSABLE BAILER) (new or previously used) was used to collect all samples Yes _____ No
 and all field measurements (Yes _____ No). Tubing was used only for MW-5

Sample appearance _____

Note any sampling problems _____

Note any cleaning performed in the field SLOPE INDICATOR

Samples collected 2 VOAS - TESTED FOR BTEX / TPHg

EVACUATION/STABILIZATION TEST DATA

Time	pH Units	Temperature Corrected Conductance (µmhos/cm)	Temperature (°F)	Water Level (Nearest 0.01 ft.)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1130	6.89	728	68			
1135	7.05	721	69			
1140	7.09	709	69			
					Tap	

Sealing start time: 1125
 Sealing stop time: 1140

WL: 18.73
 WL: _____

Comments: _____

Transportation (thermal preservation): COOLER & ICE

Form completed by: Marky - Chell

Sampled by: Marky

SAMPLING INFORMATION SHEET

Weather Conditions _____

Cloud Cover _____

Temperature _____

Wind Speed _____

GENERAL CONDITIONS

Sample ID# MW-2

Project BEACON 721

Location 44 LEWELLING BLVD.
SAN LORENZO, CA

WQ# DO93-936-4,0015

Sampling Point MW-2

Date Sampled 9/28/94 Time 1144

Describe Sampling Point SEE SITE MAP

Well Depth 33.30 ft. below MP

Casing diameter 2 inches

Depth to water (below MP) 18.06 ft.

Date 9/28/94

Time 1003

Discharge rate _____ gpm x 0.000022 = _____ cfs

At least 4 Well volumes have been evacuated before sampling.

Sampling Method _____ Tap _____ Submersible pump _____ Bailor _____ Other _____

Pump intake or bailor set at _____ ft. below MP

Tubing (type: DISPOSABLE BAILER) (new or previously used) was used to collect all samples Yes _____ No

and all field measurements (Yes _____ No). Tubing was used only for MW-2

Sample appearance _____

Note any sampling problems _____

Note any cleaning performed in the field SLOPE INDICATOR

Samples collected 2 VOAS - TESTED FOR BTEX/TPH₉

EVACUATION/STABILIZATION TEST DATA

Time	pH Units	Temperature Corrected Conductance (umhos/cm)	Temperature (F)	Water Level (Nearest 0.01 ft.)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1127	6.9	1.29	69.1		0 GAL	
1132	6.6	1.21	69.5		56 GAL	
1141	6.7	1.00	69.5		106 GAL	
					10 GAL	

Boiling start time: _____ WL _____

Boiling stop time: _____ WL _____

Comments: _____

Transportation (thermal preservation) COOLER & ICE

Form completed by: CHILL

Sampled by: CHILL

SAMPLING INFORMATION SHEET

Weather Conditions _____

Cloud Cover: _____

Temperature: _____

Wind Speed: _____

GENERAL CONDITIONS

Sample ID: MW-6

Project: BEACON 721

Location: 44 LEWELLING BLVD.
SAN LORENZO, CA

W.D. #: D093-936-4,0015

Sampling Point: MW-6

Date Sampled: 9/28/94

Time: 1216

Description Sampling Point: SEE SITE MAP

Well Depth: 28.70 ft. below MP

Casing diameter: 2 inches

Depth to water (below MP): 17.51 ft.

Date: 9/28/94

Time: 0953

Discharge rate: _____ gpm x 0.00222 = _____ cfs.

At least 4 Well volumes have been evacuated before sampling.

Sampling Method: _____ Tap _____ Submersible pump _____ Bailor _____ Other _____

Pump intake or bailor set at _____ ft. below MP

Tubing (type: DISPOSABLE BAILER new or previously used) was used to collect all samples Yes _____ No
and all field measurements (Yes _____ No). Tubing was used only for MW-6

Sample appearance: _____

Note any sampling problems: _____

Note any cleaning performed in the field: SLOPE INDICATOR

Samples collected: 2 VOAS - TESTED FOR BTEX / TPHg

EVACUATION/STABILIZATION TEST DATA

Time	pH Units	Temperature Corrected Conductance (umhos/cm)	Temperature (°F)	Water Level (Nearest 0.01 ft.)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1158	7.7	.93	64.7		0 LK	
1204	7.3	.86	68.5		3.5 LK	
1212	6.9	.86	68.2		7.5 LK	
					7.5	

Ending start time: _____ WL: _____

Ending stop time: _____ WL: _____

Comments: _____

Temperature (thermal preservation): COOLER & ICE

Form completed by: CHILL

Sampled by: CHILL

SAMPLING INFORMATION SHEET

Weather Conditions _____

Cloud Cover _____

Temperature _____

Wind Speed _____

GENERAL CONDITIONS

Sample ID: MW-9

Project: BEACON 721

Location: 44 LEWELLING BLVD.
SAN LORENZO, CA

W.O. #: DO93-936-4.0015

Sampling Point: MW-9

Date Sampled: 9/28/94 Time: 1238

Describe Sampling Point: SEE SITE MAP

Well Depth: 23.80 ft. below MP

Casing diameter: 2 inches

Depth to water (below MP): 20.01 ft.

Date: 9/28/94

Time: 0951

Discharge rate: _____ gpm \times 0.00223 = _____ cfs

At least 4 Well volumes have been evacuated before sampling.

Sampling Method: _____ Tap _____ Submersible pump _____ Bailor _____ Other _____

Pump intake or bailor set at _____ ft. below MP

Tubing (type: DISPOSABLE BAILER or previously used) was used to collect all samples Yes _____ No
and all field measurements (Yes _____ No. Tubing was used only for MW-9

Sample appearance: _____

Note any sampling problems: _____

Note any cleaning performed in the field: SLOPE INDICATOR

Samples collected: 2 VOAS - TESTED FOR BTEX/TPH₉

EVACUATION/STABILIZATION TEST DATA

Time	pH Units	^{x1000} Corrected Conductance (umhos/cm)	Temperature (°F)	Water Level (Nearest 0.01 ft.)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1226	7.4	1.39	69.9		0.64L	
1232	6.7	1.37	69.9		2.564L	
					2.5	

Sealing start time: _____ WL: _____

Sealing stop time: _____ WL: _____

Comments: _____

Transportation (thermal preservation): COOLER & ICE

Form completed by: CHIL

Sampled by: CHIL

SAMPLING INFORMATION SHEET

Weather Conditions _____ Temperature _____
 Cloud Cover _____
 Wind Speed _____

GENERAL CONDITIONS

Sample ID: MW-1 Project: BEACON 721
 Location: 44 LEWELLING BLVD. SAN LORENZO, CA W.O. #: DO93-936-4,0015
 Sampling Point: MW-1 Date Sampled: 9/28/94 Time: 1233
 Describe Sampling Point: SEE SITE MAP

Well Depth: 31.20 ft. below MP Casing diameter: 2 inches

Depth to water (below MP): 19.73 ft. Date: 9/28/94 Time: 0959

Discharge rate: _____ gpm x 0.00226 = _____ cfs

At least 4 Well volumes have been evacuated before sampling.

Sampling Method: _____ Tap _____ Submersible pump _____ Bailer _____ Other _____

Pump intake or bailer set at _____ ft. below MP

Tubing (type: DISPOSABLE BAILER or previously used) was used to collect all samples Yes _____ No
 and all field measurements (Yes _____ No). Tubing was used only for MW-1

Sample appearance: _____

Note any sampling problems: _____

Note any cleaning performed in the field: SLOPE INDICATOR

Samples collected: 2 VOAS - TESTED FOR BTEX/TPH₉

EVACUATION/STABILIZATION TEST DATA

Time	pH Units	Temperature Corrected Conductance (umhos/cm)	Temperature (F)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)

Bailing start time: 1200 WL: 18.73

Bailing stop time: 1230 WL: _____

Comments: Water has shined by door => no pH taken...

Transportation (thermal preservation): COOLER & ICE

Form completed by: MWM / CHW Sampled by: MWM

SAMPLING INFORMATION SHEET

Weather Conditions _____

Cloud Cover _____

Temperature _____

Wind Speed _____

GENERAL CONDITIONS

Sample ID# MW-4

Project BEACON 721

Location 44 LEWELLING BLVD.
SAN LORENZO, CA

W.O. # DO93-936-4,0015

Sampling Point MW-4

Date Sampled 9/28/94 Time 1253

Description Sampling Point SEE SITE MAP

Well Depth 24.60 ft. below MP

Casing diameter 2 inches

Depth to water (below MP) 19.70 ft.

Date 9/28/94

Time 1001

Discharge rate _____ gpm x 0.0033 = _____ cfs

At least 4 Well volumes have been evacuated before sampling.

Sampling Method _____ Tap _____ Submersible pump _____ Bailor _____ Other _____

Pump intake or bailor set at _____ ft. below MP

Tubing (type DISPOSABLE BAILOR or previously used) was used to collect all samples Yes _____ No
and all field measurements (Yes _____ No). Tubing was used only for MW-4

Sample appearance _____

Note any sampling problems _____

Note any cleaning performed in the field SLOPE INDICATOR

Samples collected 2 VOAS - TESTED FOR BTEX / TPH9

EVACUATION/STABILIZATION TEST DATA

Time	pH Units	Temperature Corrected Conductance (umhos/cm)	Temperature (°F)	Water Level (Nearest 0.01 ft.)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1244	7.7	1.13	69.1		0.0AL	
1247	6.8	1.23	69.8		1.56AL	
1251	6.6	1.22	69.7		3.56AL	
					3.5	

Boiling start time: _____ WL: _____

Boiling stop time: _____ WL: _____

Comments: _____

Transportation (thermal preservation) COOLER & ICE

Form completed by: CHILL

Sampled by: CHILL

SAMPLING INFORMATION SHEET

Weather Conditions _____

Temperature _____

Cloud Cover _____

Wind Speed _____

GENERAL CONDITIONS

Sample ID MW-3

Project BEACON 721

Location 44 LEWELLING BLVD.
SAN LORENZO, CA

WQ # DO93-936-4,0015

Sampling Point MW-3

Date Sampled 9/28/94 Time 1259

Describe Sampling Point SEE SITE MAP

Well Depth 29.30 ft. below MP Casing diameter 2 inches

Depth to water (below MP) 18.05 ft. Date 9/28/94 Time 0955

Discharge rate _____ gpm x 0.0022 = _____ cfs

At least 4 Well volumes have been evacuated before sampling.

Sampling Method _____ Tap _____ Submersible pump _____ Bailor _____ Other _____

Pump intake or bailor set at _____ ft. below MP

Tubing (Type DISPOSABLE BAILER ~~or~~ previously used) was used to collect all samples Yes _____ No
and all field measurements (Yes _____ No). Tubing was used only for MW-3

Sample appearance _____

Note any sampling problems _____

Note any cleaning performed in the field SLOPE INDICATOR

Samples collected 2 VOAS - TESTED FOR BTEX/TPH₉

EVACUATION/STABILIZATION TEST DATA

Time	pH Units	Temperature Corrected Conductance (umhos/cm)	Temperature (F)	Water Level (Nearest 0.01 ft)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
					7.5	

Ending start time: 1240 WL 18.05

Ending stop time: _____ WL _____

Comments: _____

Sherr

Transportation (thermal preservation) COOLER & ICE

Form completed by: _____

Sampled by: _____

SAMPLING INFORMATION SHEET

Weather Conditions _____

Cloud Cover: _____

Temperature: _____

Wind Speed: _____

GENERAL CONDITIONS

Sample ID# RW-1 Project BEACON 721

Location 44 REWELLING BLVD
SAN LORENZO, CA W.D. # D093-936-4.0015

Sampling Point RW-1 Date Sampled 9/28/94 Time: 1340

Description Sampling Point SEE SITE MAP

Well Depth 29.50 ft. below MP Casing diameter 6" inches

Depth to water (below MP) 18.35 ft. Date: 9/28/94 Time 0956

Discharge rate _____ gpm x 0.00223 = _____ cfs

At least 4 Well volumes have been evacuated before sampling.

Sampling Method _____ Tap _____ Submersible pump _____ Bailor _____ Other _____

Pump intake or bailor set at _____ ft. below MP

Tubing (type: DISPOSABLE BAILER new or previously used) was used to collect all samples Yes _____ No and all field measurements (Yes _____ No). Tubing was used only for _____

Sample appearance _____

Note any sampling problems _____

Note any cleaning performed in the field SLOPE INDICATOR

Samples collected 2 VOAS - TESTED FOR BTEX/TPH_g

EVACUATION/STABILIZATION TEST DATA

Time	pH Units	Temperature Corrected Conductance (umhos/cm)	Temperature (°F)	Water Level (Nearest 0.01 ft.)	Cumulative Volume of Water Removed from Well (gallons)	Pumping Rate (gpm)
1312	7.6	7.36	74.6		106AL	
1322	7.1	.82	73.9		406AL	
1340	7.8	.61	75.2		656AL	
					65.5	

Bailing start time: _____ WL: _____
 Bailing stop time: _____ WL: _____

Comments: USE Hooka Pump To Pump well

Transportation (thermal preservation) COOLER & ICE

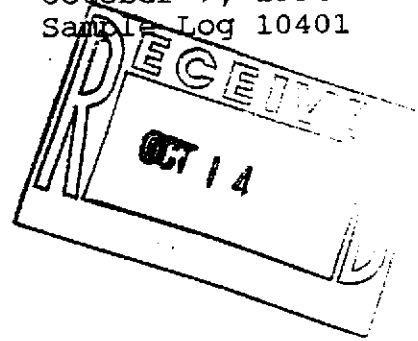
Form completed by: _____ Sampled by: _____

ENCLOSURE C

Ground Water Sample Laboratory Reports

WEST LABORATORY

October 7, 1994
Sample Log 10401



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

Subject: Analytical Results for 12 Water Samples
Identified as: Project # D093-936 (Beacon 721)
Received: 09/29/94

Dear Mr. Galati:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on October 7, 1994 and describes procedures used to analyze the samples.

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

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

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

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

Approved by:

A handwritten signature in black ink, appearing to read "Joel Kiff", written over a horizontal line.

Joel Kiff
Senior Chemist

Sample: MW10

From : Project # D093-936 (Beacon 721)

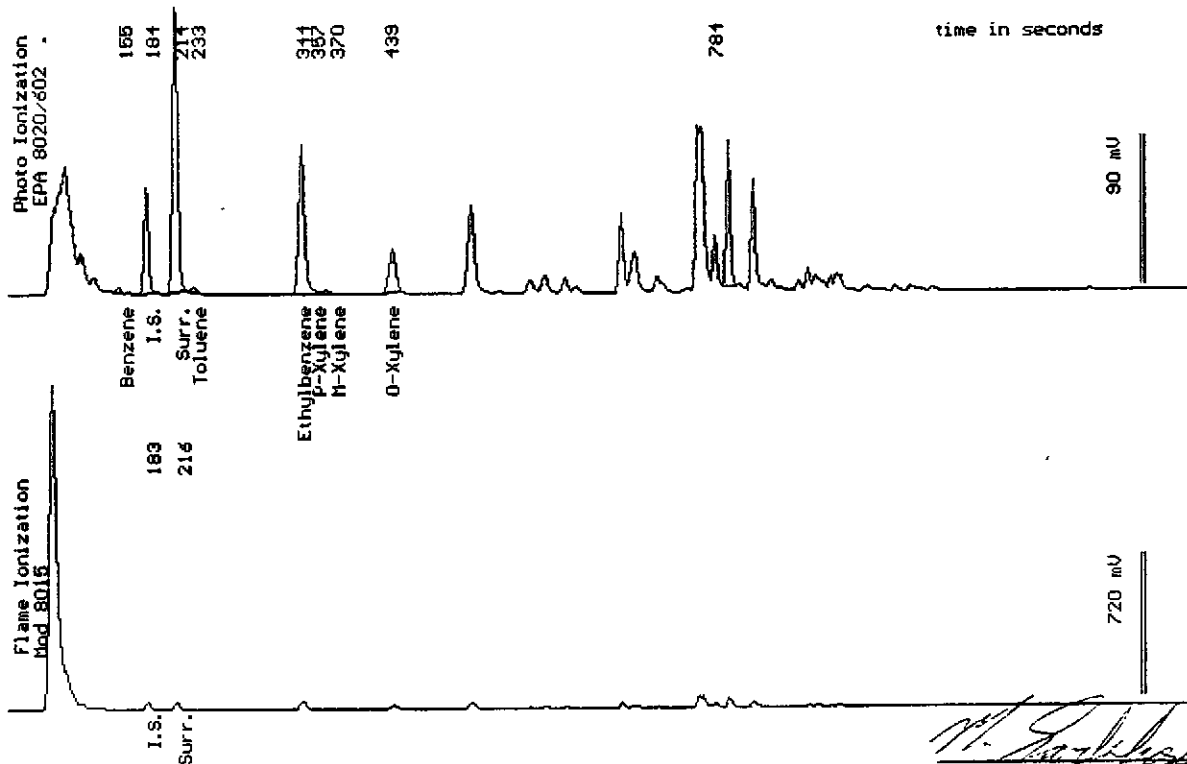
Sampled : 09/28/94

Dilution : 1:3

QC Batch : 4104E

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(1.3)	2.2
Toluene	(1.3)	2.6
Ethylbenzene	(1.3)	110
Total Xylenes	(1.3)	44
TPH as Gasoline	(130)	5700
Surrogate Recovery		104 %



Sample: MW11

From : Project # D093-936 (Beacon 721)

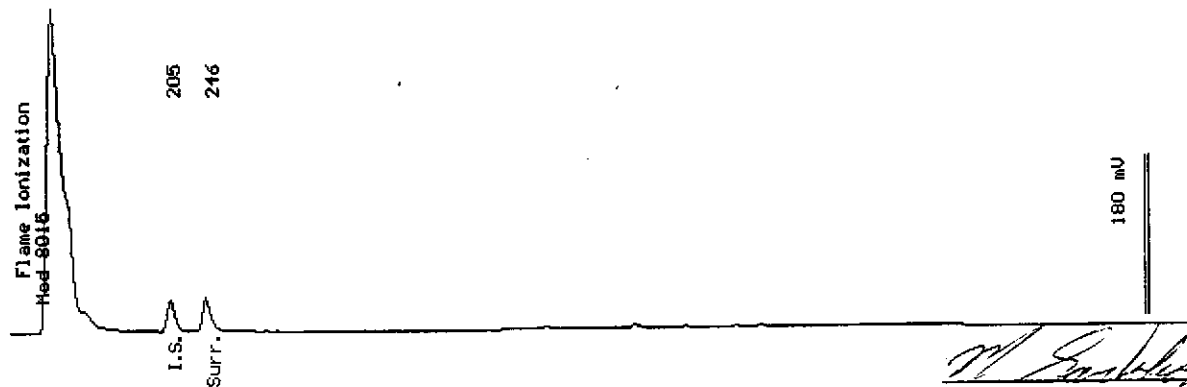
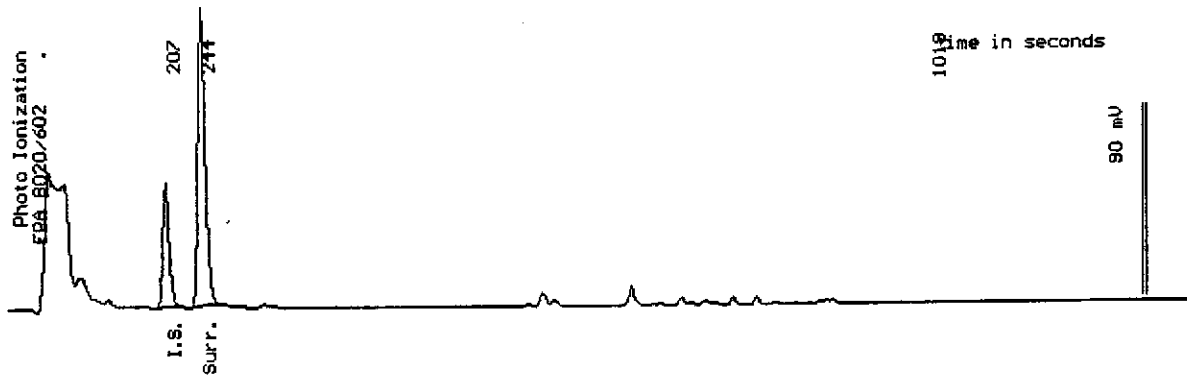
Sampled : 09/28/94

Dilution : 1:1

QC Batch : 2105J

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)	600
Surrogate Recovery		101 %



Sample Log 10401

10401-3

Sample: MW8

From : Project # D093-936 (Beacon 721)

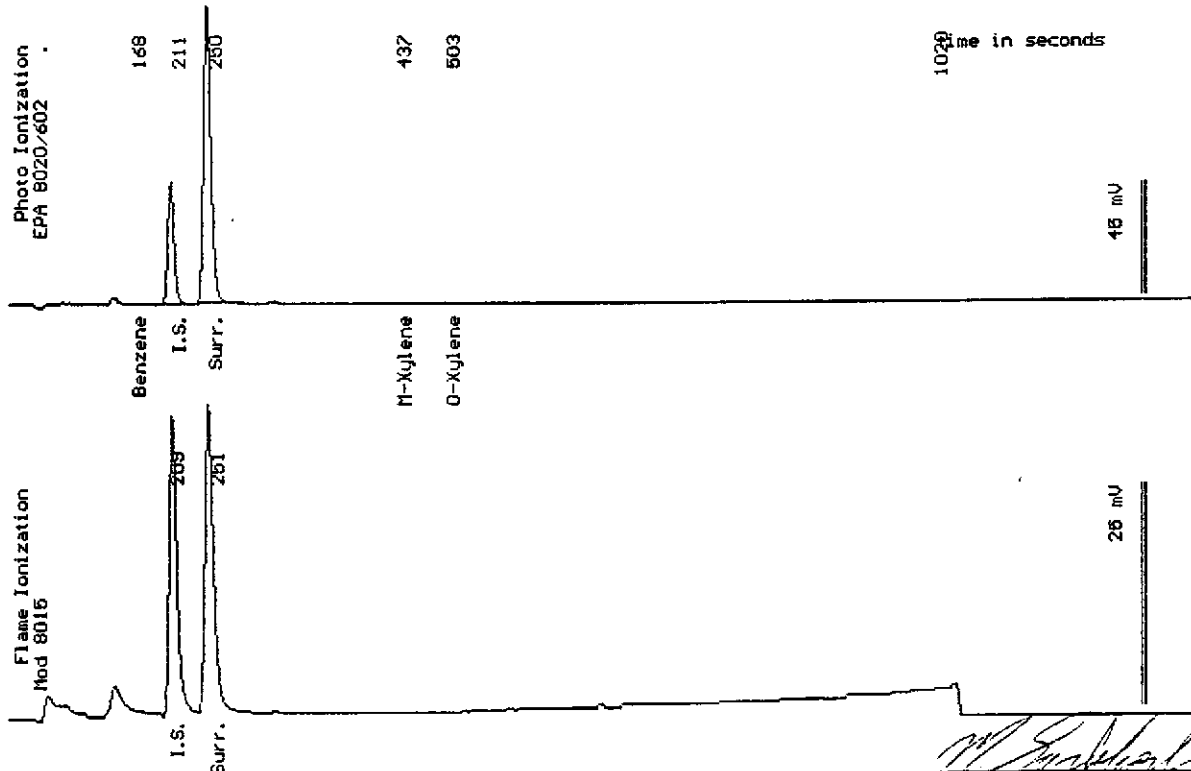
Sampled : 09/28/94

Dilution : 1:1

QC Batch : 2105K

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		103 %



Date Analyzed: 10-04-94
 Column : 0.93mm ID X 30m DBWAX (J&W Scientific)

Mitra Sarkhosh
 Mitra Sarkhosh
 Senior Chemist

Sample: MW7

From : Project # D093-936 (Beacon 721)

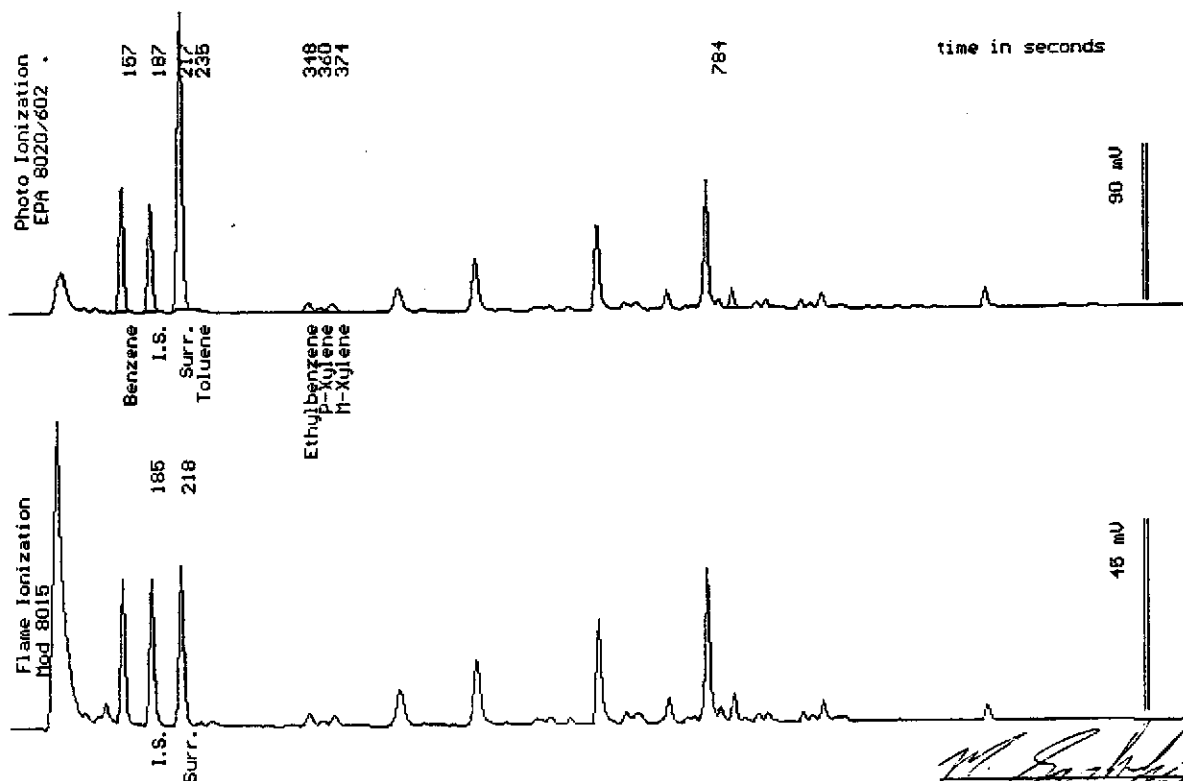
Sampled : 09/28/94

Dilution : 1:1

QC Batch : 4104J

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	21
Toluene	(.50)	<.50
Ethylbenzene	(.50)	2.3
Total Xylenes	(.50)	3.1
TPH as Gasoline	(50)	300
Surrogate Recovery		102 %



Sample: MW5

From : Project # D093-936 (Beacon 721)

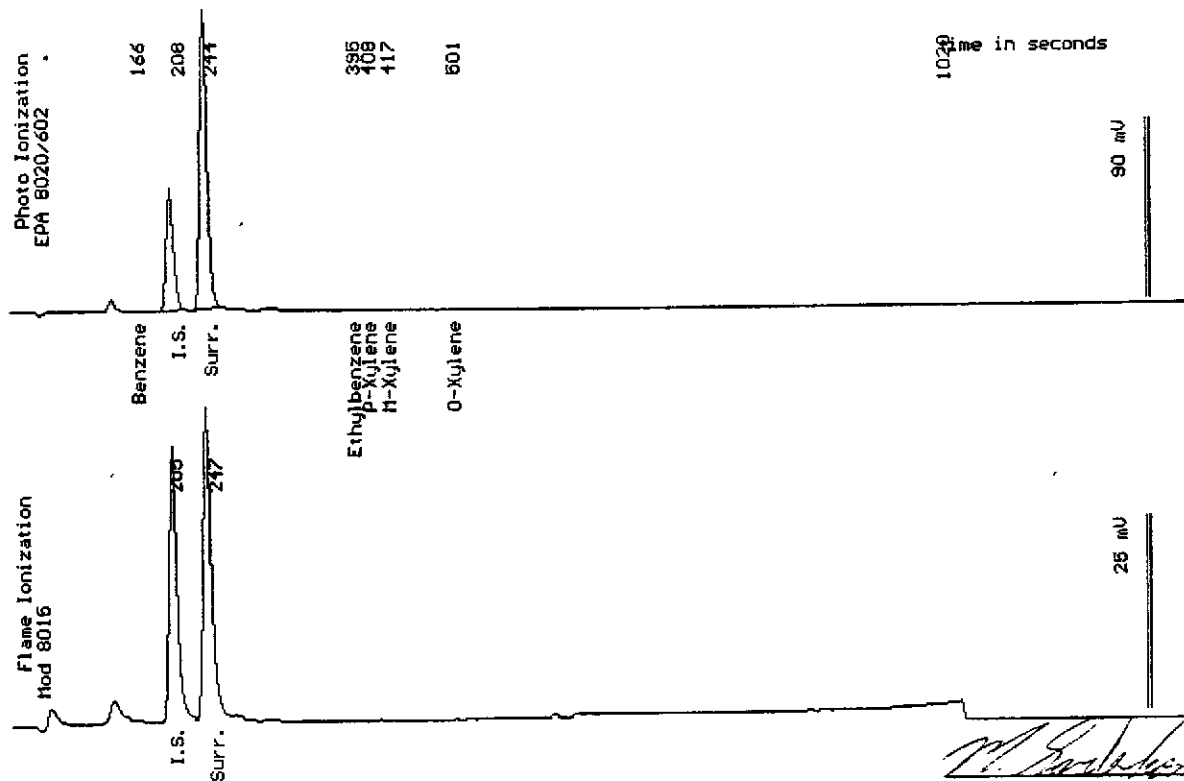
Sampled : 09/28/94

Dilution : 1:1

QC Batch : 2105K

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		90 %



Sample: MW2

From : Project # D093-936 (Beacon 721)

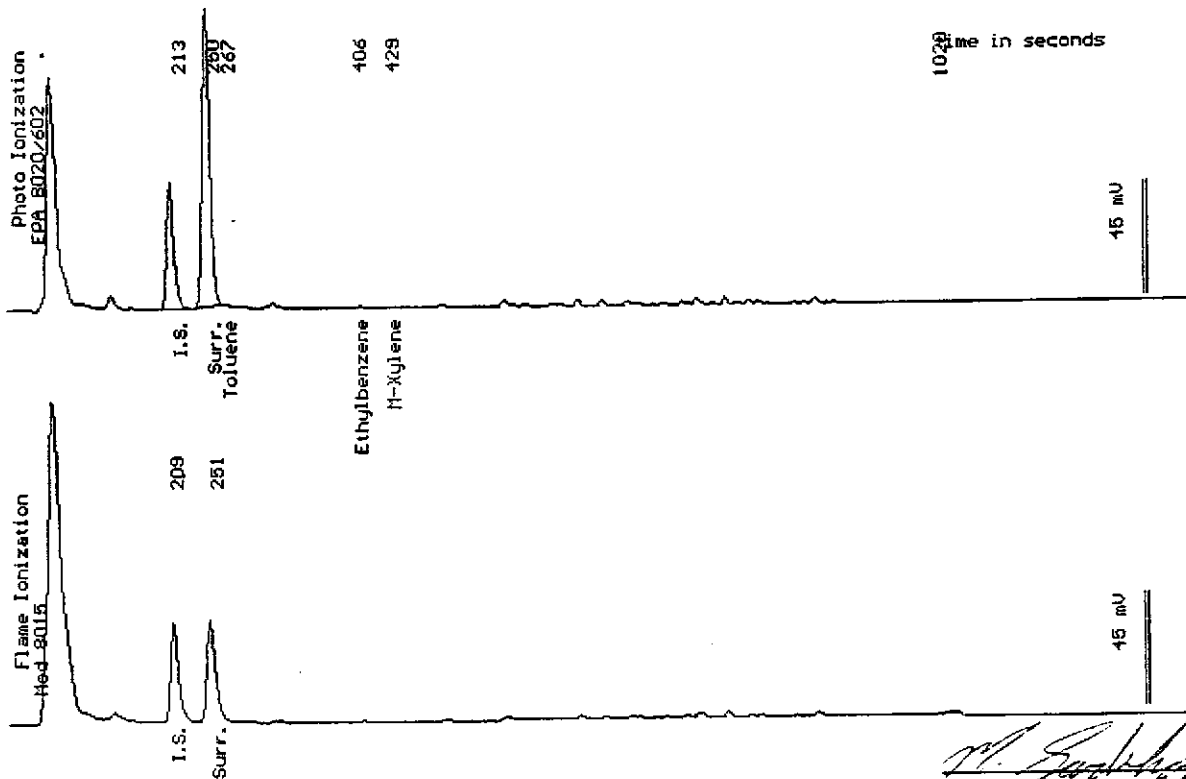
Sampled : 09/28/94

Dilution : 1:1

QC Batch : 21050

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)	190
Surrogate Recovery		95 %



Sample: MW6

From : Project # D093-936 (Beacon 721)

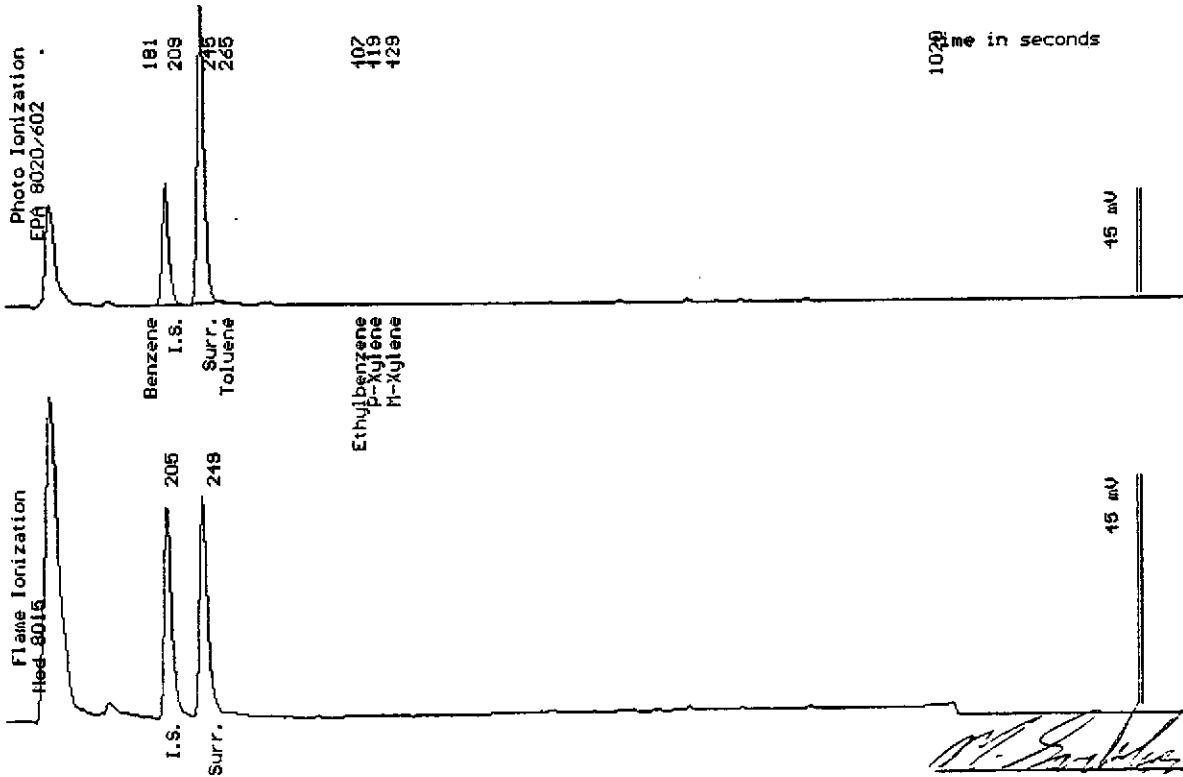
Sampled : 09/28/94

Dilution : 1:1

QC Batch : 21050

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)	100
Surrogate Recovery		96 %



Sample: MW9

From : Project # D093-936 (Beacon 721)

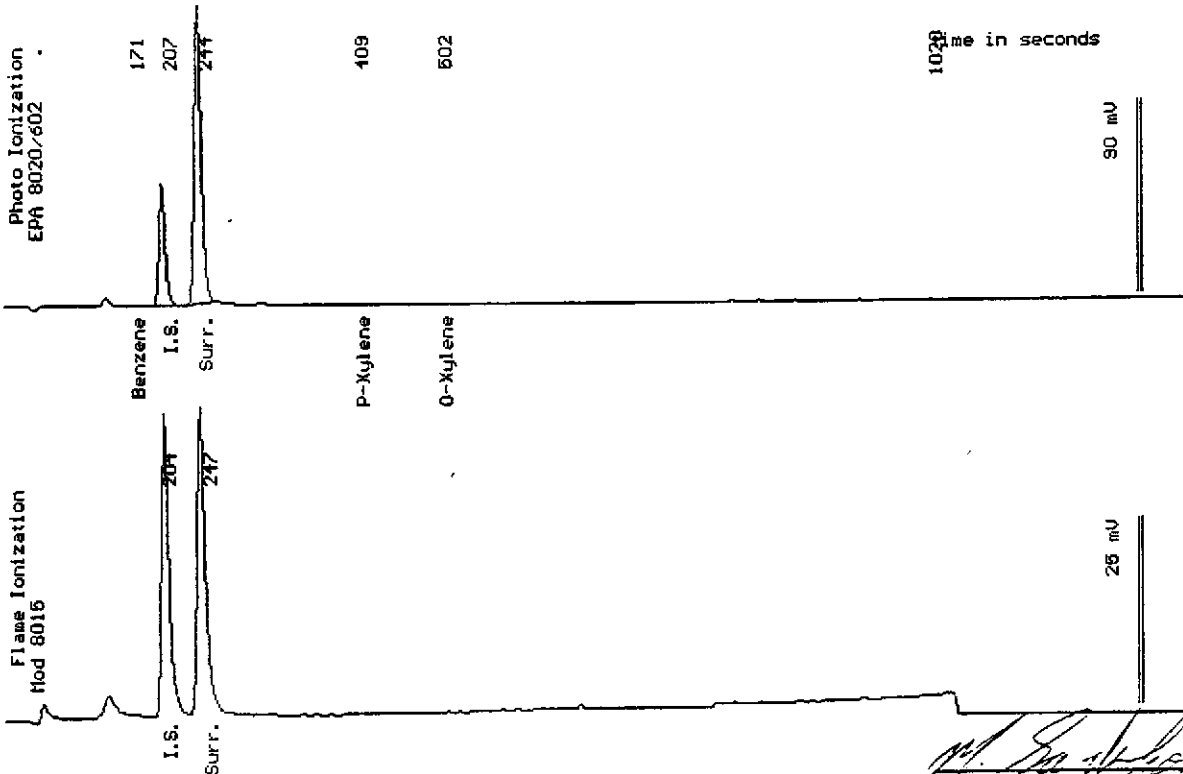
Sampled : 09/28/94

Dilution : 1:1

QC Batch : 2105K

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 %



Sample: MW1

From : Project # D093-936 (Beacon 721)

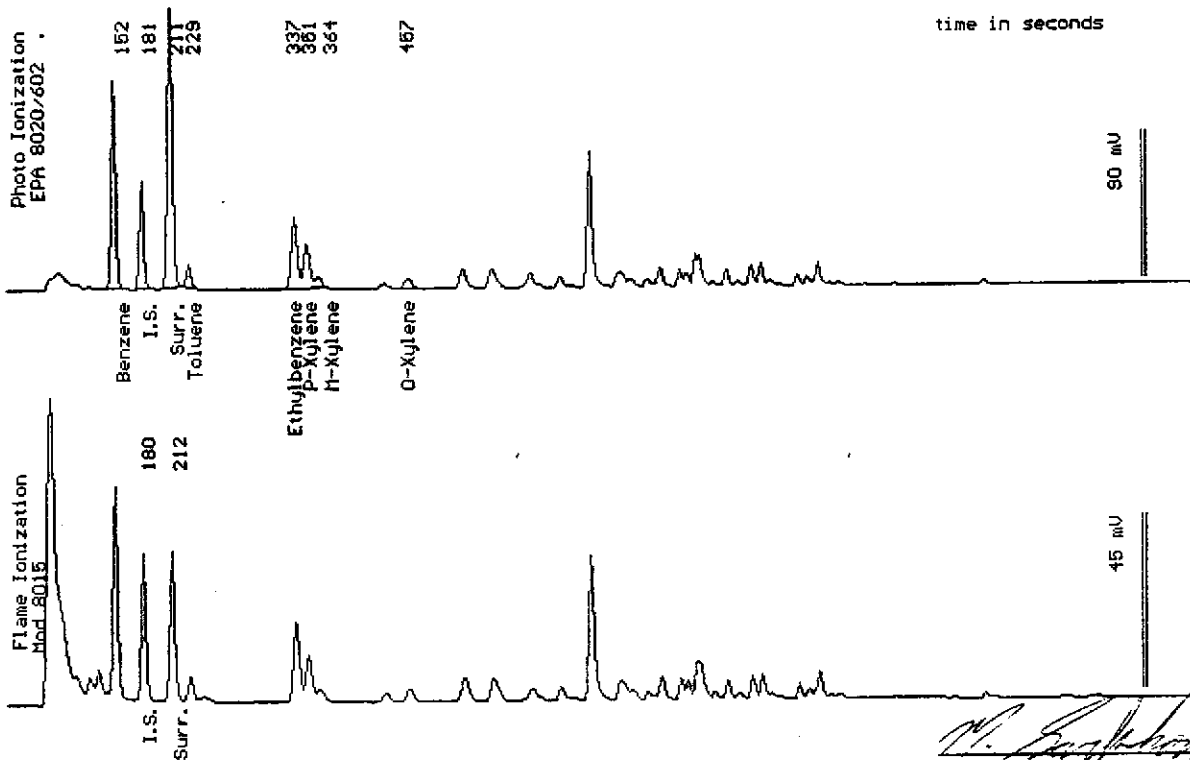
Sampled : 09/28/94

Dilution : 1:50

QC Batch : 4104H

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(25)	1700
Toluene	(25)	210
Ethylbenzene	(25)	970
Total Xylenes	(25)	870
TPH as Gasoline	(2500)	18000
Surrogate Recovery		101 %



Sample: MW4

From : Project # D093-936 (Beacon 721)

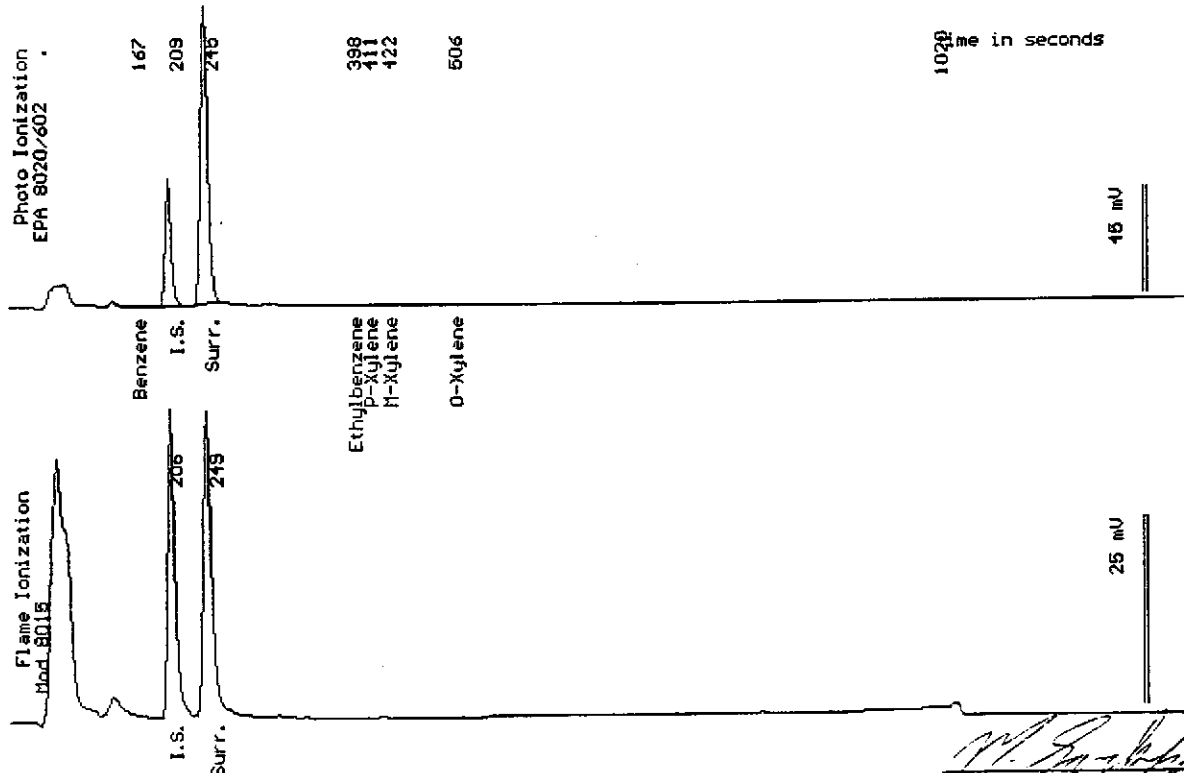
Sampled : 09/28/94

Dilution : 1:1

QC Batch : 21050

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)	75
Surrogate Recovery		104 %



Date Analyzed: 10-06-94
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Mitra Sarkhosh
Senior Chemist

Sample: MW3

From : Project # D093-936 (Beacon 721)

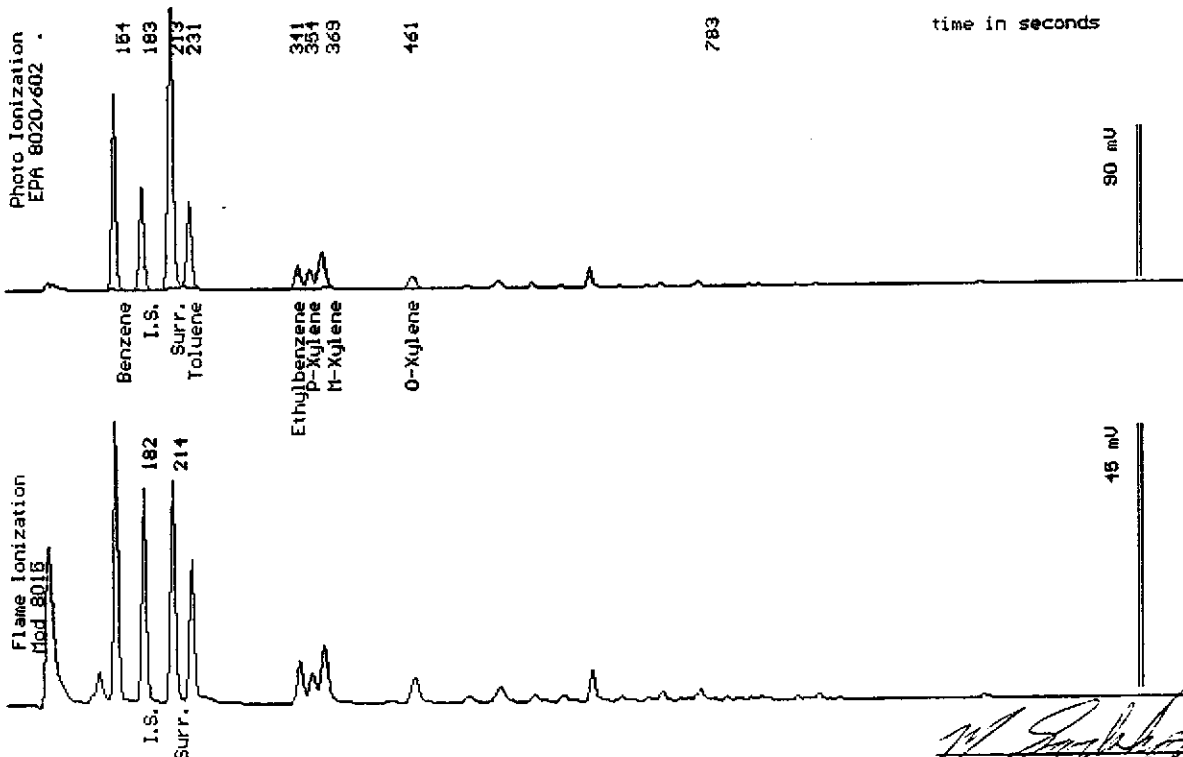
Sampled : 09/28/94

Dilution : 1:250

QC Batch : 4104H

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(130)	7400
Toluene	(130)	4300
Ethylbenzene	(130)	1500
Total Xylenes	(130)	4600
TPH as Gasoline	(13000)	40000
Surrogate Recovery		104 %



Sample: RW1

From : Project # D093-936 (Beacon 721)

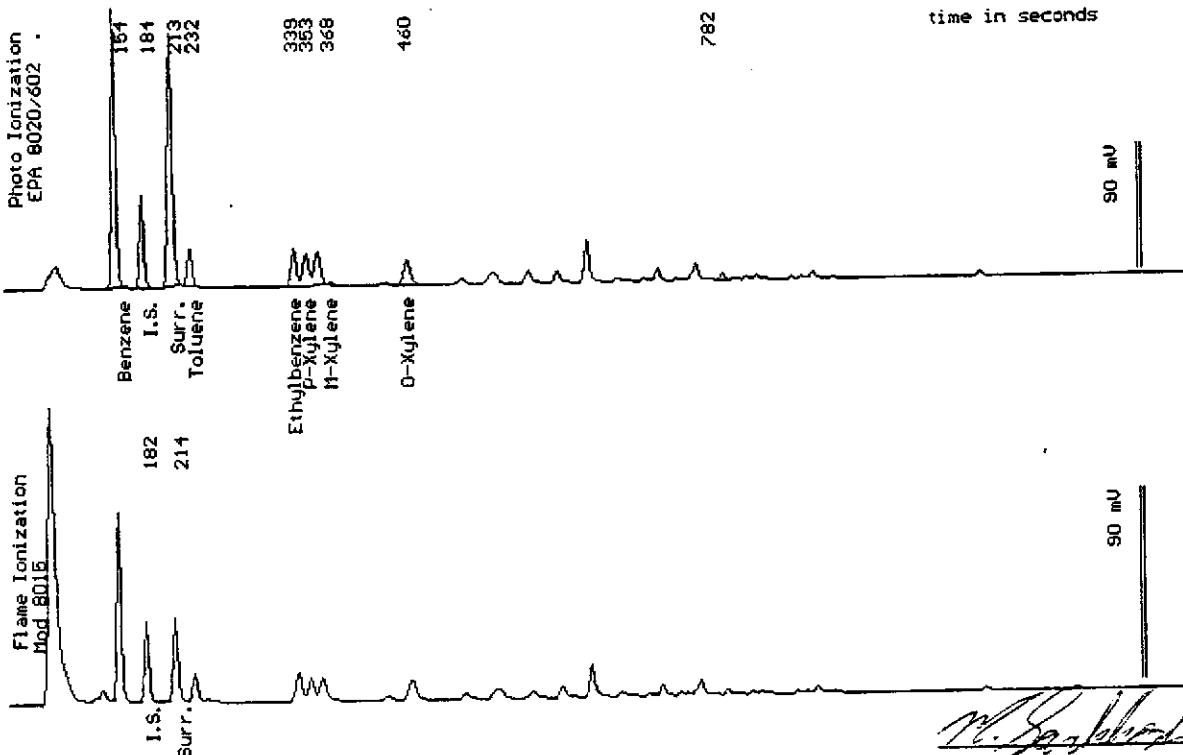
Sampled : 09/28/94

Dilution : 1:1

QC Batch : 4104J

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	54
Toluene	(.50)	9.2
Ethylbenzene	(.50)	12
Total Xylenes	(.50)	29
TPH as Gasoline	(50)	350
Surrogate Recovery		99 %



Date Analyzed: 10-07-94
 Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

M. Sarkhosh
 Mitra Sarkhosh
 Senior Chemist



Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. 721		Sampler (Print Name) Chris Hill / Martin W. Morgan			ANALYSES				Date 9-28-94	Form No. 1 of 2
Project No. DO93-936		Sampler (Signature) <i>[Signature]</i>			BTEX	TPH (gasoline)	TPH (diesel)	No. of Containers	West Standard TAT	
Project Location SAN LORENZO		Affiliation Delta								
Sample No./Identification	Date	Time	Lab No.	REMARKS						
MW 10	9-28-94	1041		XX			2			
MW 11	9-28-94	1045		XX			2			
MW 8		1111		XX			2			
MW 7		1114		XX			2			
MW 5		1142		XX			2			
MW 2	9-28-94	1144		XX			2			
Relinquished by: (Signature/Affiliation) <i>[Signature]</i> Delta		Date 9-28-94	Time 1632	Received by: (Signature/Affiliation) <i>[Signature]</i> Delta				Date 9/28/94	Time 1032	
Relinquished by: (Signature/Affiliation) <i>[Signature]</i> Delta		Date 9/28/94	Time 1015	Received by: (Signature/Affiliation) <i>[Signature]</i> Delta				Date 9/28/94	Time 1015	
Relinquished by: (Signature/Affiliation) <i>[Signature]</i> Delta		Date 9/28/94	Time 1055	Received by: (Signature/Affiliation) <i>[Signature]</i> WEST				Date 9/29/94	Time 1055	
Report To: Tommy Fox Delta				Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: Tommy Fox						

RECEIVED
DATE **9/28/94**
TIME **1101**
TEST **OTC**
INITIAL *[Signature]*
WEST LAB

WHITE: Return to Client with Report

YELLOW: Laboratory Copy

PINK: Original Copy



Ultramar Inc.
CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No. 721		Sampler (Print Name) Chris Hill / Martin W. Morgan			ANALYSES				Date 9-28-94	Form No. 7 of 2
Project No. DD93-93L		Sampler (Signature) <i>[Signature]</i>							No. of Containers	
Project Location SAN LORENZO		Affiliation Delta			BTEX TPH (gasoline) TPH (diesel)					
Sample No./Identification	Date	Time	Lab No.							
mw6	9-28-94	1216		XX				2		
mw9	}	1238		XX				2		
mw1		1233		XX				2		
mw4		1253		XX				2		
mw3		1259		XX				2		
Rw1	9-28-94	1340		XX				2		
Relinquished by: (Signature/Affiliation) <i>[Signature]</i>		Date 9-28-94	Time 1632	Received by: (Signature/Affiliation) <i>[Signature]</i>				Date 9/28/94	Time 1632	
Relinquished by: (Signature/Affiliation) <i>[Signature]</i>		Date 9/29/94	Time 10:15	Received by: (Signature/Affiliation) <i>[Signature]</i>				Date 9/29/94	Time 10:15	
Relinquished by: (Signature/Affiliation) <i>[Signature]</i>		Date 9/29/94	Time 10:55	Received by: (Signature/Affiliation) <i>[Signature]</i> WEST				Date 9/29/94	Time 10:55	
Report to: Todd Galati Delta				Bill to: ULTRAMAR INC. 525 West Third Street Hanford, CA 93230 Attention: Ferry Fox						

RECEIVED
DATE **10/9/94**
TIME **9:00**
WEST LAB

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