

# Ultramar

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

Telecopy: 209-584-6113 Credit & Wholesale  
209-583-3330 Administrative  
209-583-3302 Information Services  
209-583-3358 Accounting

## ENVIRONMENTAL PROJECT QUARTERLY STATUS REPORT

**DATE REPORT SUBMITTED:** November 17, 1994  
**QUARTER ENDING:** September 30, 1994

**FORMER SERVICE STATION NO.:** 574  
**ADDRESS:** 22315 Redwood Road, Castro Valley, CA  
**COUNTY:** Alameda  
**ULTRAMAR CONTACT:** Kenneth R. Earnest

**TEL. NO:** 209-583-5571

### BACKGROUND:

On May 5, 1987, five underground storage tanks (two gasoline, two diesel and one waste oil) were excavated and removed from the site. Soil samples were collected from beneath the tanks and analyzed for hydrocarbon constituents. Based on preliminary analytical data related to the collected soil samples, it was determined that elevated levels of gasoline and diesel were present in the soil beneath the former fuel tanks. Soil was overexcavated from beneath the former fuel tanks. Soil samples were collected after the over-excavation and confirmed that the addition excavation was successful.

During March 1991, three ground-water monitoring wells were installed on-site. Laboratory analysis of soil samples obtained from the borings for the installation of the monitoring wells indicated that the soil near the soil/water interface exhibited gasoline range hydrocarbons.

Quarterly monitoring was initiated during the fourth quarter 1991.

Installed five new groundwater monitoring wells in May of 1993. With the installation of these new wells the site is fully defined.

Conducted a soil gas survey/performance test, aquifer pump test and air sparging test during first quarter 1994.

### SUMMARY OF THIS QUARTER'S ACTIVITIES:

Performed third quarter monitoring on September 9, 1994.



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**RESULT OF QUARTERLY MONITORING:**

Results indicate that since the previous sampling event benzene concentrations in MW-1, MW-2 and MW-3 have decreased. BTEX and TPH-gasoline concentrations in MW-4, MW-5, MW-6, MW-7 and MW-8 have remained not detected since installation, except TPH-gasoline concentrations in MW-6.

**PROPOSED ACTIVITY OR WORK FOR NEXT QUARTER:**

<u>ACTIVITY</u>	<u>ESTIMATED COMPLETION DATE</u>
Fourth quarter monitoring	November 1994
Submit PAR/RAP	November 1994

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July 15, 1994

Mr. Scott O. Seery, CHMM  
Senior Hazardous Materials Specialist  
Alameda County Health Care Services  
80 Swan Way, Room 200  
Oakland, CA 94621

**SUBJECT: FORMER BEACON STATION NO. 574, 22315 REDWOOD ROAD, CASTRO VALLEY,  
CALIFORNIA**

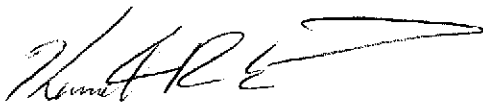
Dear Mr. Seery:

Enclosed is a copy of the Second Quarter 1994 Groundwater Monitoring Report for the above-referenced Ultramar facility prepared by Fugro West, Inc. Also included with the report is a copy of the Quarterly Status report describing the work performed this quarter and the work anticipated to be conducted in the next quarter.

Please do not hesitate to call if you have any questions about this project at (209) 583-5571.

Sincerely,

**ULTRAMAR INC.**



Kenneth R. Earnest  
Environmental Specialist II  
Marketing Environmental Department

Enclosure: Second Quarter 1994 Groundwater Monitoring Report  
Quarterly Status Report

cc w/encl: Mr. Rich Hiatt, San Francisco Bay Region, RWQCB



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**BEACON**  
#1 Quality and Service



FUGRO WEST, INC.

1050 Melody Lane, Suite 160  
Roseville, California 95678  
Tel: (916) 782-2110  
FAX: (916) 786-7830

June 28, 1994

Mr. Kenneth Earnest  
Environmental Specialist  
Ultramar Inc.  
525 West Third Street  
Hanford, California 93232-0466

Subject: **Second Quarter 1994 Groundwater Monitoring Report**  
**Beacon Station #574**  
22315 Redwood Road, Castro Valley, California

Dear Mr. Earnest:

This report documents the results of quarterly groundwater monitoring conducted on June 2, 1994 at the subject site (Figure 1). The monitoring, conducted by Doulos Environmental, included measurements of depth to groundwater, subjective analysis for free product, groundwater purging and collection of groundwater samples. All field activities pertaining to events in this report were conducted according to the Ultramar Field Procedures included in the Attachments.

### GROUNDWATER ELEVATIONS

Prior to purging, Doulos Environmental personnel collected depth to groundwater measurements. Groundwater level data from March 1992 to date are summarized in Table 1. Historic groundwater levels are presented as an Attachment. On the basis of the current measurements, groundwater flows to the southwest (Figure 2) at a gradient of <0.01 ft/ft. Groundwater levels have decreased an average of 0.44 feet compared to the last monitoring event.



## **GROUNDWATER SAMPLING AND ANALYSES**

Groundwater samples were collected from eight wells. All samples were analyzed for concentrations of:

- TPH, as gasoline, by modified EPA Method 8015.
- BTEX by EPA Method 602.

Analytical results from March 1992 to date are summarized in Table 2. Historic analytical data are presented as an Attachment. Figure 3 is a distribution map of benzene in groundwater based on the current data. The laboratory report and chain-of-custody form for the current sampling event are attached. Benzene concentrations remain nondetectable in wells MW-4, MW-5, MW-6, MW-7, and MW-8. Concentrations decreased in wells MW-1, MW-2, and MW-3 compared to prior sampling.

A copy of this quarterly monitoring report should be forwarded to the following parties:

Mr. Scott Seery  
Senior Hazardous Materials Specialist  
Alameda County Health Agency  
Division of Hazardous Materials  
Department of Environmental Health  
80 Swan Way, Room 350  
Oakland, California 94621

Mr. Rich Hiatt  
San Francisco Bay Regional Water Quality Control Board  
2101 Webster Street, Suite 500  
Oakland, California 94612



The interpretations and/or conclusions that may be contained within this report represent our professional opinions. These opinions are based on currently available information. Other than this, no warranty is implied or intended. This report has been prepared solely for the use of Ultramar Inc. Any reliance on this report by third parties shall be at such parties' sole risk. This report was prepared under the review and supervision of the professional geologist, registered with the State of California, whose signature appears below.

If you have any questions or comments, please contact us at (916) 782-2110.

Sincerely,

**FUGRO WEST, INC.**

A handwritten signature in cursive script that reads "Sheila R. Richgels".

Sheila R. Richgels  
Report Coordinator

A handwritten signature in cursive script that reads "Owen M. Kittredge".

Owen M. Kittredge  
Registered Geologist  
CRG No. 5853



6/28/94  
Date

SRR/OMK/srr

Attachments

**FIGURES:**

FIGURE 1 ..... SITE LOCATION MAP

FIGURE 2 ..... POTENTIOMETRIC SURFACE MAP  
(JUNE 2, 1994)

FIGURE 3 ..... DISTRIBUTION OF BENZENE  
IN GROUNDWATER (JUNE 2, 1994)

**TABLES:**

TABLE 1 ..... WATER LEVEL DATA

TABLE 2 ..... ANALYTICAL RESULTS: GROUNDWATER

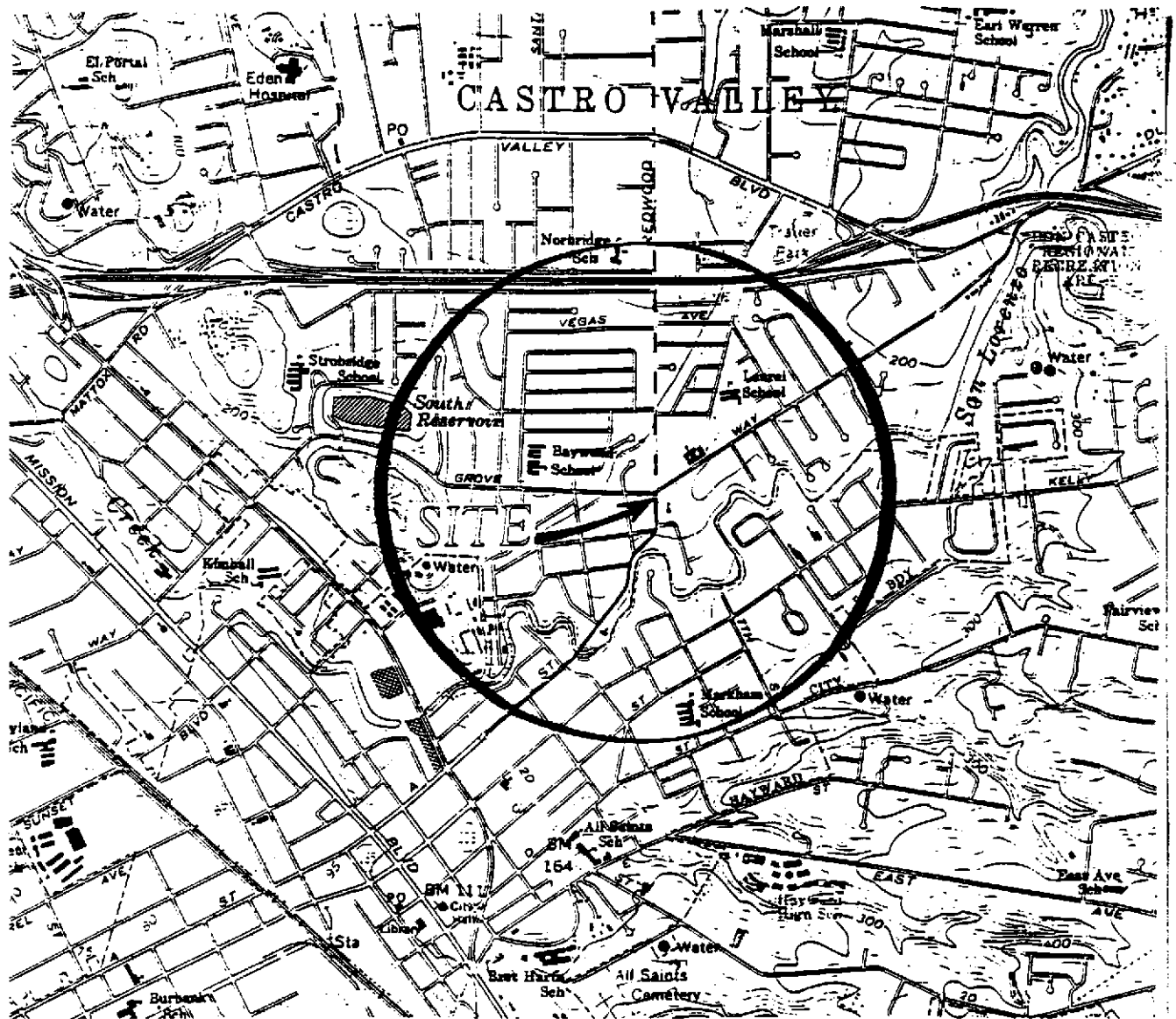
**ATTACHMENTS:**

ULTRAMAR FIELD PROCEDURES

HISTORICAL DATA

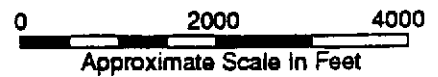
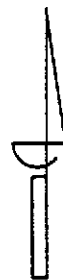
LABORATORY REPORT AND  
CHAIN-OF-CUSTODY FORM

DOULOS ENVIRONMENTAL FIELD DATA SHEETS



**GENERAL NOTES:**

BASE MAP FROM USGS  
7.5 MINUTE TOPOGRAPHIC  
HAYWARD, CA



DRAWN BY:  
J. Paradis  
DATE:  
May 23, 1994  
REVISED BY:  
DATE:

**SITE LOCATION MAP**

Beacon Station #574  
22315 Redwood Road  
Castro Valley, CA

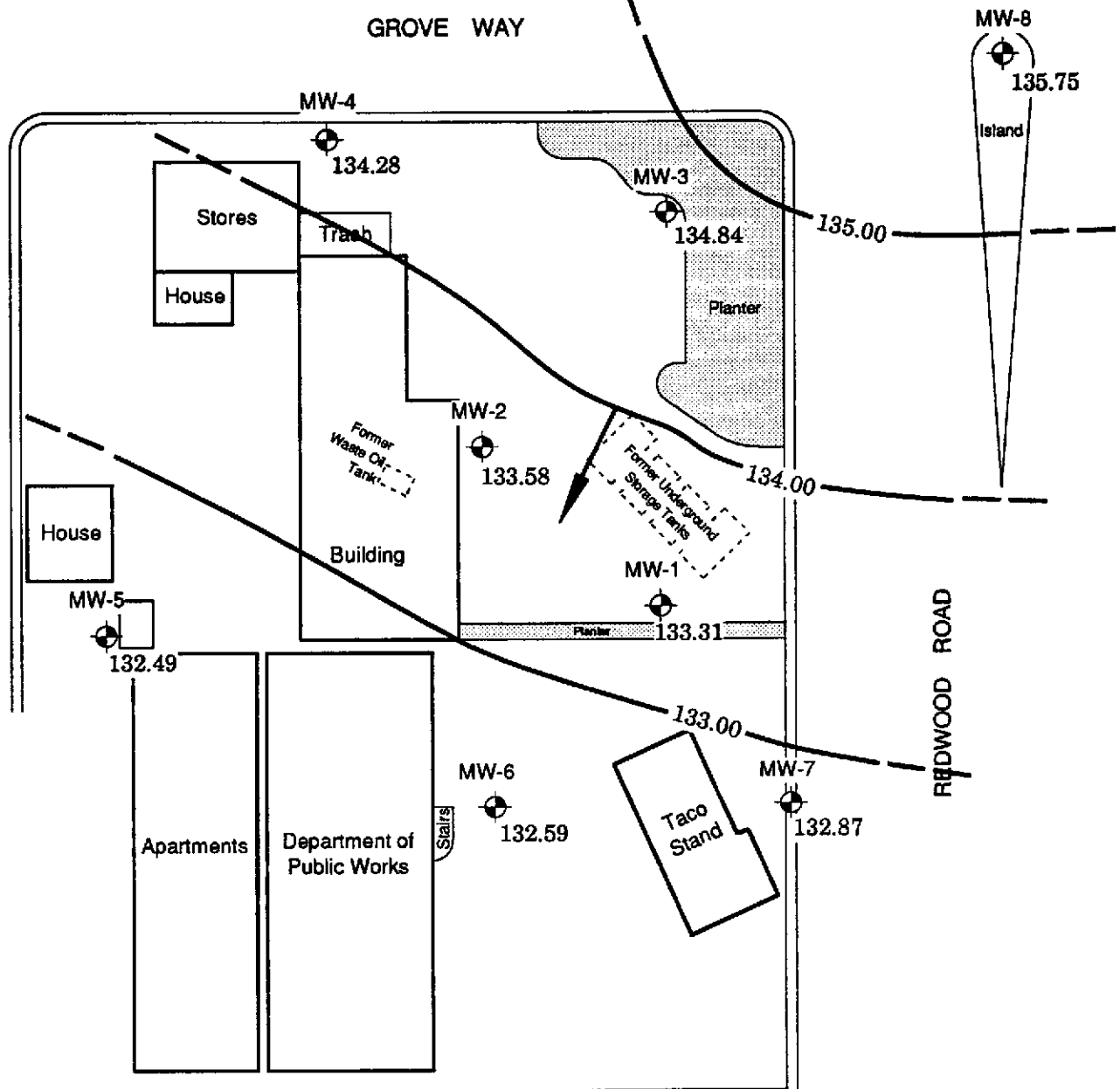
**FIGURE**

1





PROJECT NUMBER:

91-212



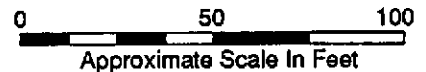


**LEGEND**

-  Monitoring Well
-  133.31 Groundwater Elevation in Feet
-  Potentiometric Surface Contour Line (Dashed Where Inferred)
-  Estimated Direction of Groundwater Flow

**NOTES**

- Site Sketch After Site Map
- By Acton • Mickelson • van Dam, Inc.
- All locations Are Approximate



Hydraulic Gradient = < 0.01 ft/ft  
Contour Interval = 1.0 ft



DRAWN BY:  
D. Hada

DATE:  
June 15, 1994

REVISED BY:

DATE:

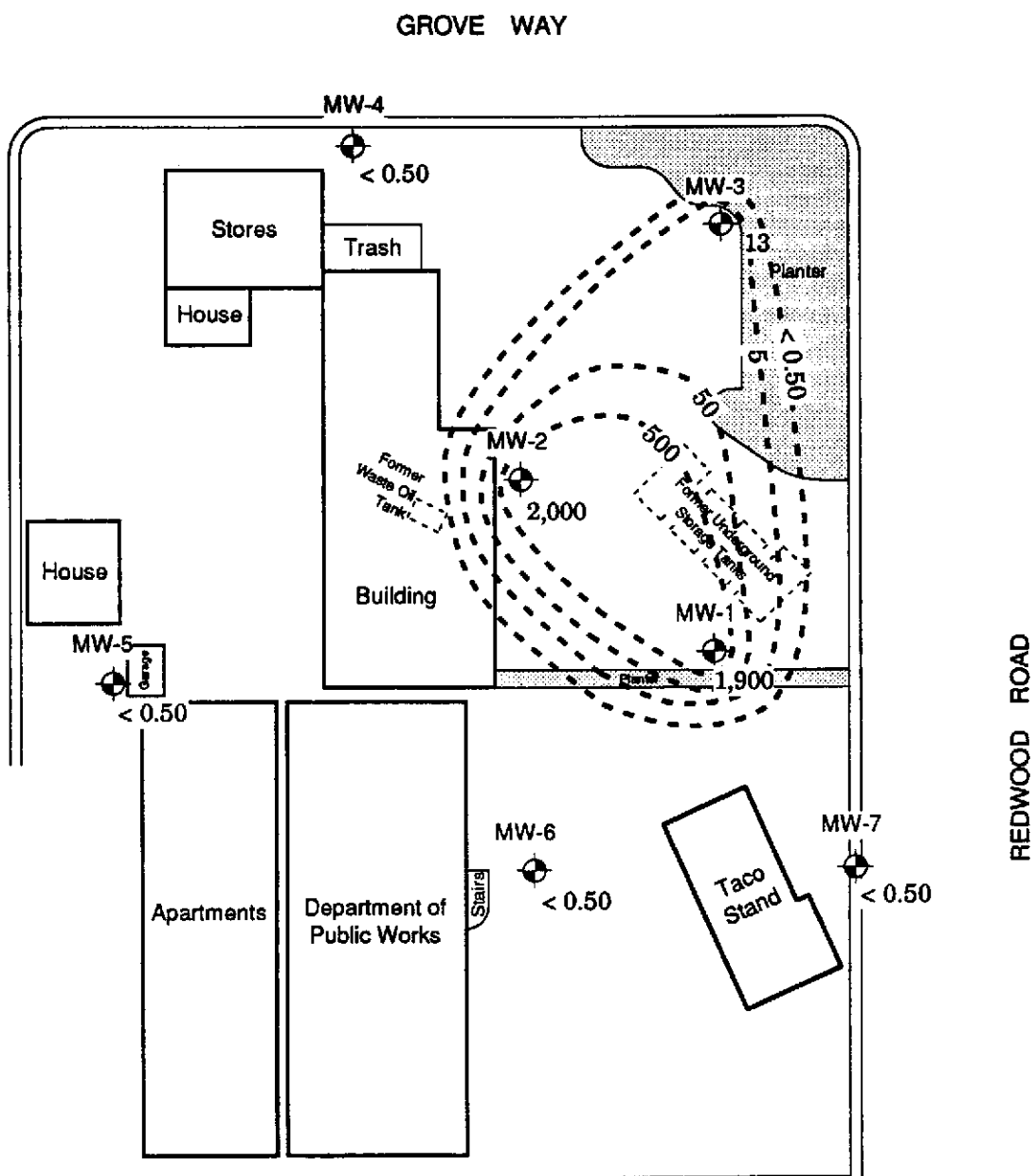
**POTENTIOMETRIC SURFACE MAP**  
June 2, 1994

Former Beacon Station # 574  
22315 Redwood Road  
Castro Valley, CA

**FIGURE**  
2

PROJECT NUMBER:  
92-779

GROVE WAY



LEGEND



13

Monitoring Well  
Benzene Concentration (parts-per-billion)



Inferred Iso-Concentration Limits

< 0.50

Below Indicated Detection Limit

NOTES

Site Sketch After Site Map

By Acton • Mickelson • van Dam, Inc.

All locations Are Approximate



Approximate Scale in Feet

Contour Interval = Exponential



DRAWN BY:  
D. Hada  
DATE:  
June 15, 1994  
REVISED BY:  
DATE:

DISTRIBUTION MAP OF BENZENE  
IN GROUNDWATER June 2, 1994

Former Beacon Station # 574  
22315 Redwood Road  
Castro Valley, CA

FIGURE  
3

PROJECT NUMBER:  
92-779

**TABLE 1**  
**WATER LEVEL DATA**  
**BEACON STATION #574**  
**22315 REDWOOD ROAD, CASTRO VALLEY, CALIFORNIA**  
**(Measurements in feet)**

Monitoring Well	Date	Reference Elevation (top of casing) <sup>1</sup>	Depth to Groundwater <sup>2</sup>	Groundwater Elevation <sup>2</sup>	Well Depth	Comments
MW-1	03/27/92	156.55	22.43	134.12	---	
	06/04/92		23.40	133.15	---	
	09/23/92		24.07	132.48	---	
	11/12/92		24.16	132.39	29.33	
	02/02/93		21.87	134.68	29.80	
	05/07/93		22.58	133.97	29.84	
	05/18/93		22.66	133.89	---	
	08/11/93		23.41	133.14	29.81	
	11/05/93		24.09	132.46	29.81	
	03/01/94		22.76	133.79	29.85	
06/02/94	23.24	133.31	29.85			
MW-2	03/27/92	155.17	20.82	134.35	---	
	06/04/92		21.81	133.36	---	
	09/23/92		22.45	132.72	---	
	11/12/92		22.60	132.57	29.71	
	02/02/93		20.28	134.89	29.73	
	05/07/93		20.97	134.20	29.73	
	05/18/93		21.06	134.11	---	
	08/11/93		21.85	133.32	29.70	
	11/05/93		22.32	132.85	29.70	
	03/01/94		21.19	133.98	29.68	
06/02/94	21.59	133.58	29.69			
MW-3	03/27/92	157.13	21.46	135.67	---	
	06/04/92		22.34	134.79	---	
	09/23/92		22.84	134.29	---	
	11/12/92		23.04	134.09	29.55	
	02/02/93		21.03	136.10	29.45	
	05/07/93		21.59	135.54	29.53	
	05/18/93		21.73	135.40	---	
	08/11/93		22.31	134.82	29.41	
	11/05/93		22.85	134.28	29.41	
	03/01/94		21.97	135.16	29.55	
06/02/94	22.29	134.84	29.56			
MW-4	05/18/93	151.96	17.55	134.41	---	
	08/11/93		17.50	134.46	28.43	
	11/05/93		15.84	136.12	28.43	
	03/01/94		17.35	134.61	28.11	
	06/02/94		17.68	134.28	28.12	
MW-5	05/18/93	148.68	15.72	132.96	---	
	08/11/93		16.42	132.26	25.43	
	11/05/93		16.92	131.76	25.43	
	03/01/94		15.54	133.14	25.00	
	06/02/94		16.19	132.49	25.00	
MW-6	05/18/93	153.96	20.80	133.16	---	
	08/11/93		21.64	132.32	31.15	
	11/05/93		22.11	131.85	31.15	
	03/01/94		20.80	133.16	29.96	
	06/02/94		21.37	132.59	29.98	

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.  
2 = Elevation referenced to mean sea level.  
Well Depth = Measurement from top of casing to bottom of well.  
--- = Not measured.

TABLE 1  
 WATER LEVEL DATA  
 BEACON STATION #574  
 22315 REDWOOD ROAD, CASTRO VALLEY, CALIFORNIA  
 (Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) <sup>1</sup>	Depth to Groundwater <sup>1</sup>	Groundwater Elevation <sup>2</sup>	Well Depth	Comments
MW-7	05/18/93	156.09	22.64	133.45	---	
	08/11/93		23.25	132.84	30.75	
	11/05/93		23.93	132.16	30.75	
	03/01/94		22.72	133.37	30.11	
	06/02/94		23.22	132.87	30.12	
MW-8	05/18/93	158.04	21.55	136.49	---	
	08/11/93		22.43	135.61	34.82	
	11/05/93		23.00	135.04	34.82	
	03/01/94		22.05	135.99	34.04	
	06/02/94		22.29	135.75	34.04	

NOTES: 1 = Measurement and reference elevation taken from notch/mark on top north side of well casing.  
 2 = Elevation referenced to mean sea level.  
 Well Depth = Measurement from top of casing to bottom of well.  
 --- = Not measured.

**TABLE 2**  
**ANALYTICAL RESULTS: GROUNDWATER**  
**BEACON STATION #574**  
**22315 REDWOOD ROAD, CASTRO VALLEY, CALIFORNIA**  
 (All results in parts-per-billion)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons			Aromatic Volatile Organics			
		Gasoline	Diesel	Motor Oil	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-1	03/27/92	5,000	<50	<50	700	900	230	1,100
	06/04/92	2,000	<800	NA	270	57	230	440
	09/23/92	3,400	NA	NA	400	430	110	550
	11/12/92	2,700	NA	NA	50	<5.0	140	340
	02/02/93	8,500	NA	NA	700	770	250	1,200
	05/07/93	7,200	NA	NA	970	630	280	1,500
	08/11/93	11,000	NA	NA	1,300	1,000	260	1,600
	11/05/93	36,000	NA	NA	6,300	4,700	1,400	7,100
	03/01/94	3,500	NA	NA	580	490	110	620
06/02/94	8,300	NA	NA	1,900	1,200	420	2,100	
MW-2	03/27/92	18,000	<50	<50	2,400	2,300	870	3,300
	06/04/92	14,000	<5,000	NA	1,900	1,700	580	2,300
	09/23/92	22,000	NA	NA	2,100	1,500	760	2,900
	11/12/92	28,000	NA	NA	2,400	860	540	3,500
	02/02/93	24,000	NA	NA	2,700	1,900	590	2,600
	05/07/93	19,000	NA	NA	1,800	1,300	460	2,600
	08/11/93	23,000	NA	NA	2,300	1,500	550	2,300
	11/05/93	36,000	NA	NA	3,400	2,900	860	3,700
	03/01/94	13,000	NA	NA	1,300	490	350	1,000
06/02/94	12,000	NA	NA	2,000	790	460	1,300	
MW-3	03/27/92	160	<50	<50	9.2	4.8	10	23
	06/04/92	120	<50	NA	7.5	2.7	0.5	15
	09/23/92	220	NA	NA	8.3	4.3	6.2	19
	11/12/92	230	NA	NA	12	5.5	7.7	19
	02/02/93	86	NA	NA	2.4	0.71	2.7	6.2
	05/07/93	140	NA	NA	2.6	1.2	3.9	8.4
	08/11/93	490	NA	NA	15	8.1	14	37
	11/05/93	820	NA	NA	45	24	34	93
	03/01/94	410	NA	NA	7.4	2.7	5.6	10
06/02/94	440	NA	NA	11	4.9	14	31	
MW-4	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	03/01/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
MW-5	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	03/01/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
MW-6	05/18/93	170	NA	NA	<0.5	<0.5	<0.5	<0.5
	08/11/93	78	NA	NA	<0.5	<0.5	<0.5	<0.5
	11/05/93	170	NA	NA	<0.5	<0.5	<0.5	0.63
	03/01/94	210	NA	NA	<0.5	<0.5	<0.5	<0.5
	06/02/94	190	NA	NA	<0.5	<0.5	<0.5	<0.5

NOTES: < = Below indicated detection limit.  
 NS = Not sampled.  
 NA = Not analyzed.

**TABLE 2**  
**ANALYTICAL RESULTS: GROUNDWATER**  
**BEACON STATION #574**  
**22315 REDWOOD ROAD, CASTRO VALLEY, CALIFORNIA**  
**(All results in parts-per-billion)**

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons			Aromatic Volatile Organics			
		Gasoline	Diesel	Motor Oil	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-7	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	03/01/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
MW-8	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	03/01/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5

NOTES: < = Below indicated detection limit.  
 NS = Not sampled.  
 NA = Not analyzed.

## ULTRAMAR FIELD PROCEDURES

The following section describes procedures used by Ultramar field personnel in the performance of ground water sampling.

### Ground Water Level and Total Depth Determination

A water level indicator is lowered down the well and a measurement of the depth to water from an established reference point on the casing is taken. The indicator probe is used to sound the bottom of the well and a measurement of the total depth of the well is taken. Both the water level and total depth measurements are taken to the nearest 0.01-foot.

### Visual Analysis of Ground Water

Prior to purging and sampling ground water monitoring wells, a water sample is collected from each well for subjective analysis. The visual analysis involves gently lowering a clean, disposable, polyethylene bailer to approximately one-half the bailer length past the water table interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating product or the appearance of a petroleum product sheen. If measurable free product is noted in the bailer, a water/product interface probe is used to determine the thickness of the free product to the nearest 0.01-foot. The thickness of free product is determined by subtracting the depth to product from the depth to water.

### Monitoring Well Purging and Sampling

Monitoring wells are purged by removing approximately four casing volumes of water from the well using a clean disposable bailer or electrical submersible purge pump. Purge volumes are calculated prior to purging. During purging the temperature, pH, and electric conductivity are monitored. The well is sufficiently purged when: the four casing volumes have been removed; the temperature, pH, and conductivity have stabilized to within 10% of the initial readings; and the ground water being removed is relatively free of suspended solids. After purging, ground water levels are allowed to stabilize to within 80% of the initial water level reading. A water sample is then collected from each well with a clean, disposable polyethylene bailer. If the well is bailed dry prior to removing the minimum volume of water, the ground water is allowed to recharge. If the well has recharged to within 80% of the initial reading within two hours, the well will continue to be purged until the minimum volume of water has been removed. If the well has not recharged to at least 80% of the initial reading within two hours, the well is considered to contain formation water and a ground water sample is collected. Ground water removed from the well is stored in 55-gallon drums at the site and labeled pending disposal.

In wells where free product is detected, the wells will be bailed to remove the free product. An estimate of the volume of product and water will be recorded. If the free product thickness is reduced to the point where a measurable thickness is no longer present in the well, a ground water sample will be collected. If free product persists throughout bailing, a final free product thickness measurement will be taken and a ground water sample will not be collected.

Samples are stored in 40-milliliter vials so that air passage through the sample is minimized (to prevent volatilizing the sample). The vial is tilted and filled slowly until an upward convex meniscus forms over the mouth of the vial. The Teflon side of the septum (in cap) is then placed against the meniscus, and the cap is screwed on tightly. The sample is then inverted and the bottle is tapped lightly to check for air bubbles. If an air bubble is present in the vial, the cap is removed and more sample is transferred from the bailer. The vial is then resealed and rechecked for air bubbles. The sample is then appropriately labeled and stored on ice from the time of collection through the time of delivery to the laboratory. A Chain-of-Custody form is completed to ensure sample integrity. Ground water samples are transported to a state-certified laboratory and analyzed within the EPA-specified holding times for the requested analyses.

TABLE 2  
WATER LEVEL DATA  
(measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing)	Depth to Ground Water	Ground Water Elevation
MW-1	04-01-91	156.55	22.37	134.18
	03-27-92		22.43	134.12
	06-04-92		23.40	133.15
	09-23-92		24.07	132.48
	11-12-92		24.16	132.39
	02-02-93		21.87	134.68
	05-18-93		22.66	133.89
MW-2	04-01-91	155.17	20.82	134.25
	03-27-92		20.82	134.35
	06-04-92		21.81	133.36
	09-23-92		22.45	132.72
	11-12-92		22.60	132.57
	02-02-93		20.28	134.89
	05-18-93		21.06	134.11
MW-3	04-01-91	157.13	21.55	135.58
	03-27-92		21.46	135.67
	06-04-92		22.34	134.79
	09-23-92		22.84	134.29
	11-12-92		23.03	134.09
	02-02-93		21.03	136.10
	05-18-93		21.73	135.40
MW-4	05-18-93	151.96	17.55	134.41
MW-5	05-18-93	148.68	15.72	132.96
MW-6	05-18-93	153.96	20.80	133.16
MW-7	05-18-93	156.09	22.64	133.45
MW-8	05-18-93	158.04	21.55	136.49



TABLE 3  
GROUND WATER ANALYTICAL RESULTS  
(concentrations in parts per billion)

Monitoring Well	Date Collected	Total Petroleum Hydrocarbons			Aromatics Volatile Organics			
		Gasoline	Diesel	Motor Oil	Benzene	Toluene	Ethylbenzene	Total Xylene
MW-1	04-01-91	4,100	<100	-	140	570	76	460
	03-27-92	5,600	<50	<50	760	900	230	1,100
	06-04-92	2,600	<800	-	270	57	230	440
	09-23-92	3,400	-	-	480	430	110	550
	11-12-92	2,700	-	-	5.8	<5.0	140	340
	02-02-93	8,500	-	-	760	770	250	1,200
	05-07-93	7,700	-	-	970	630	280	1,500
MW-2	04-01-91	10,000	<100	-	650	640	150	960
	03-27-92	18,000	<50	<50	2,400	2,300	870	3,300
	06-04-92	14,000	<5,000	-	1,900	1,700	580	2,300
	09-23-92	22,000	-	-	2,100	1,500	760	2,900
	11-12-92	29,000	-	-	2,400	860	540	3,500
	02-02-93	24,000	-	-	2,700	1,900	590	2,600
	05-07-93	19,000	-	-	1,800	1,300	460	2,600
MW-3	04-01-91	3,100	<100	-	41	91	37	420
	03-27-92	160	<50	<50	9.2	4.8	10	23
	06-04-92	120	<50	-	7.5	2.7	0.5	15
	09-23-92	220	-	-	8.3	4.3	6.2	19
	11-12-92	230	-	-	12	5.5	7.7	19
	02-02-93	86	-	-	2.4	0.71	2.7	6.2
	05-07-93	140	-	-	2.6	1.2	3.9	8.4
MW-4	05-18-93	<50	-	-	<0.50	<0.50	<0.50	<0.50
MW-5	05-18-93	<50	-	-	<0.50	<0.50	<0.50	<0.50
MW-6	05-18-93	170	-	-	<0.50	<0.50	<0.50	<0.50
MW-7	05-18-93	<50	-	-	<0.50	<0.50	<0.50	<0.50
MW-8	05-18-93	<50	-	-	<0.50	<0.50	<0.50	<0.50

Note: Dash (-) indicates that the sample was not analyzed for this constituent.



June 10, 1994  
Sample Log 9537

Sheila Richgels  
Fugro West, Inc. - Roseville  
1050 Melody Lane, Suite 160  
Roseville, CA 95678

RECEIVED  
JUN 10 1994

Subject: Analytical Results for 8 Water Samples  
Identified as: Project # 94-574-01 (Former Beacon 574)  
Received: 06/03/94

Dear Ms. Richgels:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on June 10, 1994 and describes procedures used to analyze the samples.

Sample(s) were received in 40-milliliter glass vials sealed with TFE lined septa 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:

Mitra Sarkhosh  
Senior Chemist



Sample Log 9537

9537-1

Sample: NW-1

From : Project # 94-574-01 (Former Beacon 574)

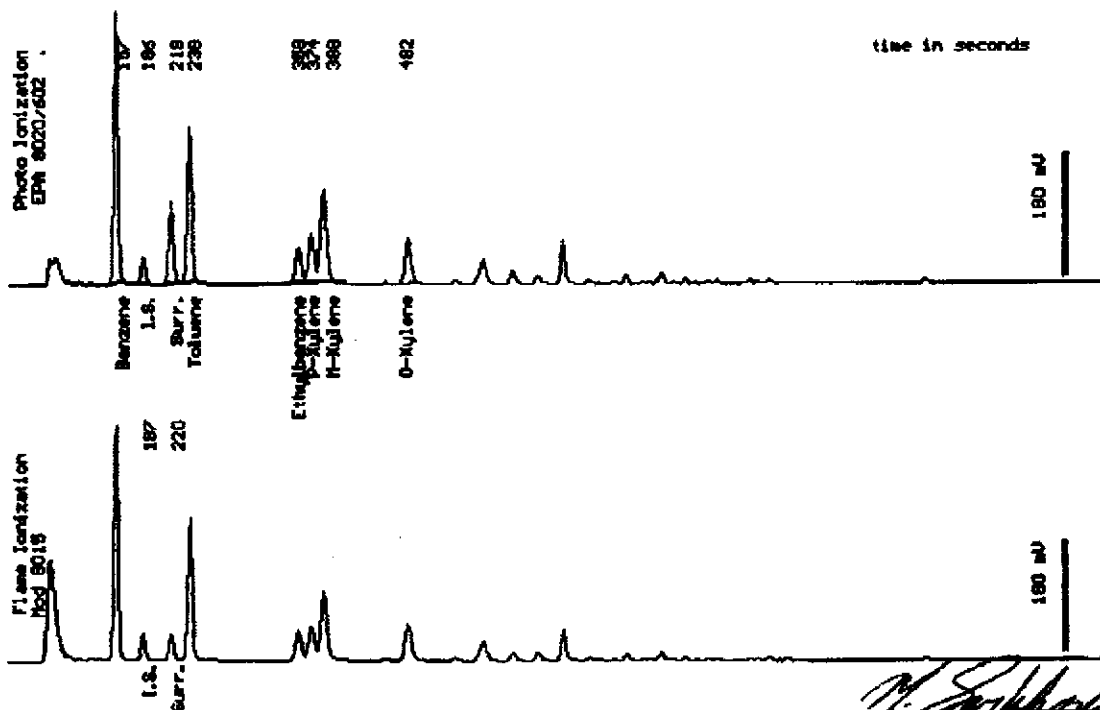
Sampled : 06/02/94

Dilution : 1:10

QC Batch : 4088E

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(5.0)	1900
Toluene	(5.0)	1200
Ethylbenzene	(5.0)	420
Total Xylenes	(5.0)	2100
TPH as Gasoline	(500)	8900
Surrogate Recovery		99 %



Date Analyzed: 06-08-94  
Column : 0.83mm ID X 90m DBMCK (J&M Scientific)

Mitra Sarkhosh  
Senior Chemist



Sample Log 9537

9537-2

Sample: NW-2

From : Project # 94-574-01 (Former Beacon 574)

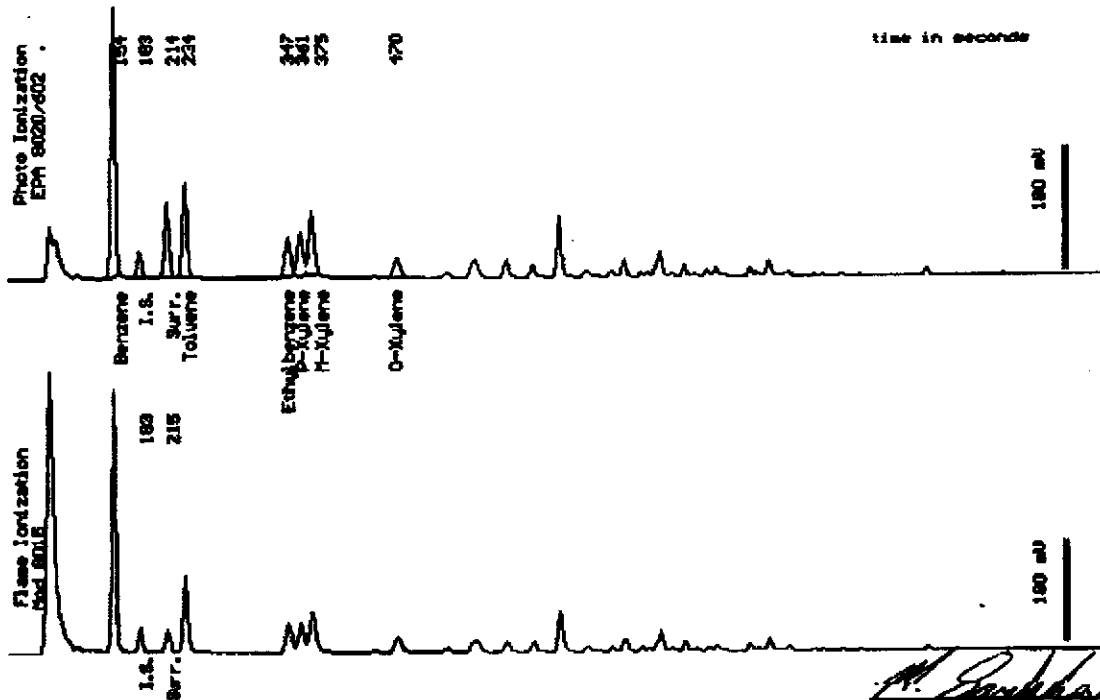
Sampled : 06/02/94

Dilution : 1:10

QC Batch : 4088B

Matrix : Water

Parameter	(MRL) $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$
Benzene	(5.0)	2000
Toluene	(5.0)	790
Ethylbenzene	(5.0)	460
Total Xylenes	(5.0)	1300
TPH as Gasoline	(500)	12000
Surrogate Recovery		101 %



Date Analyzed: 06-09-94  
Column: 0.53mm ID X 30m DBMAX (J&W Scientific)

Mitra Sarkhosh  
Senior Chemist



Sample Log 9537

9537-3

Sample: MW-3

From : Project # 94-574-01 (Former Beacon 574)

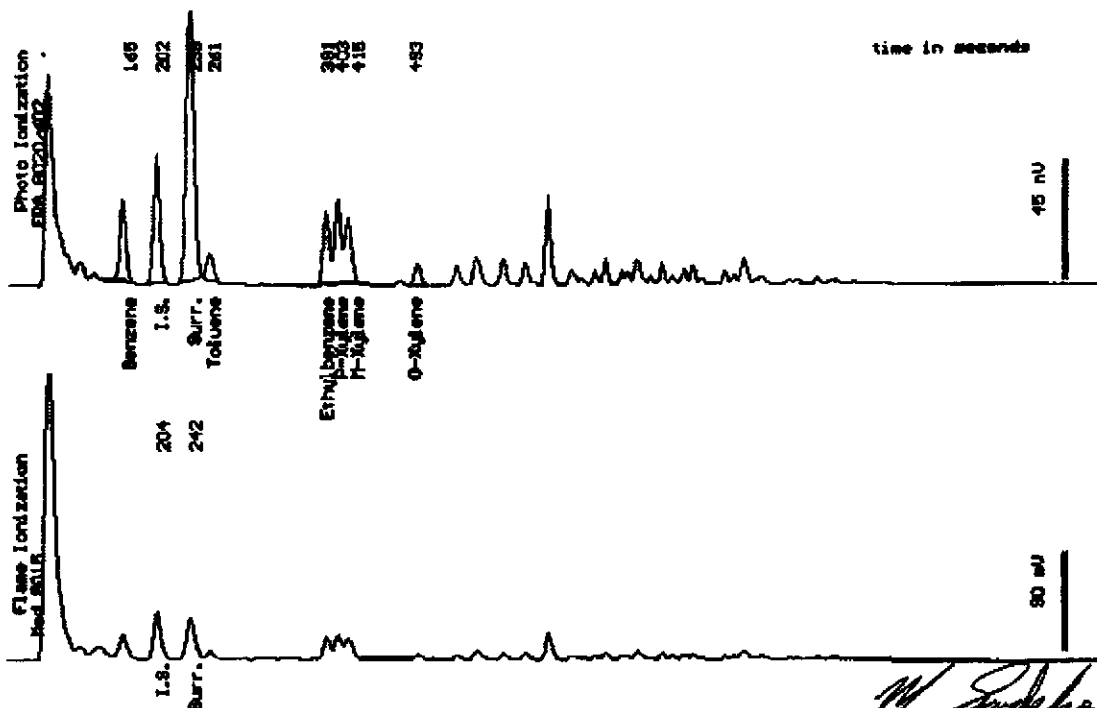
Sampled : 06/02/94

Dilution : 1:1

QC Batch : 2083B

Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.50)	13
Toluene	(.50)	4.9
Ethylbenzene	(.50)	14
Total Xylenes	(.50)	31
TPH as Gasoline	(50)	440
Surrogate Recovery		103 %



Date Analyzed: 06-08-94  
Column: 0.08mm ID X 30m DBMEX (J&W Scientific)

*M. Sarkhosh*  
Mira Sarkhosh  
Senior Chemist



Sample Log 9537

9537-4

Sample: MW-4

From : Project # 94-574-01 (Former Beacon 574)

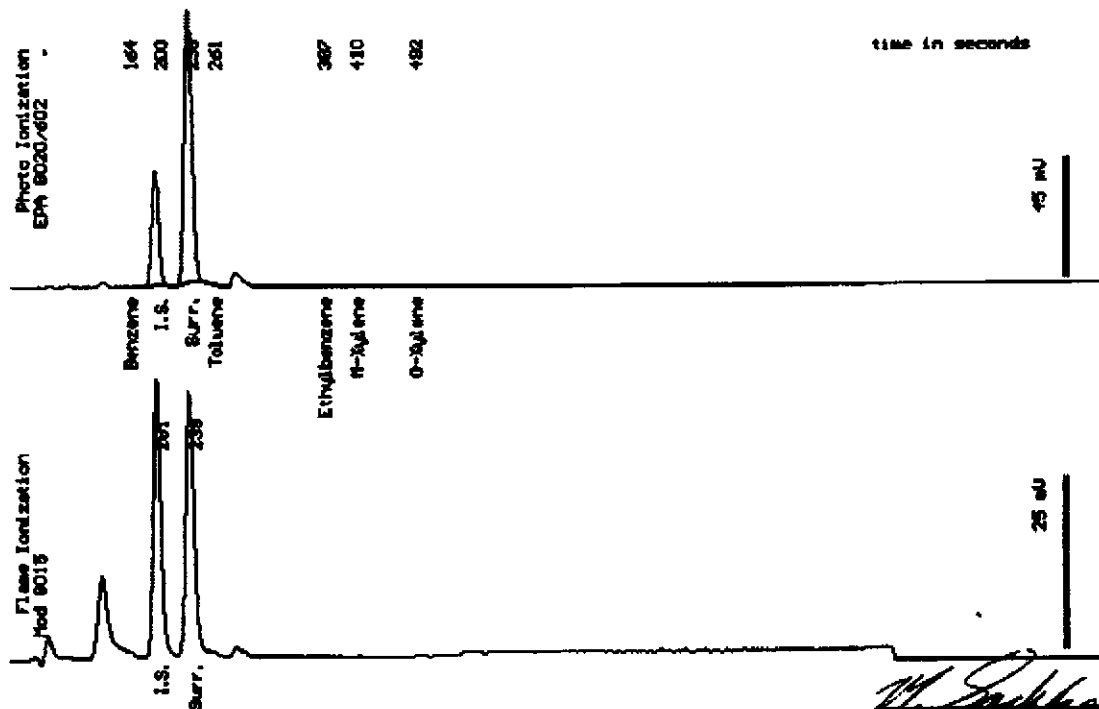
Sampled : 06/02/94

Dilution : 1:1

QC Batch : 2083A

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: 06-08-94  
Column : 0.8mm ID X 30m DBMIX (J&H Scientific)

*M. Sarkosh*  
Mitra Sarkosh  
Senior Chemist



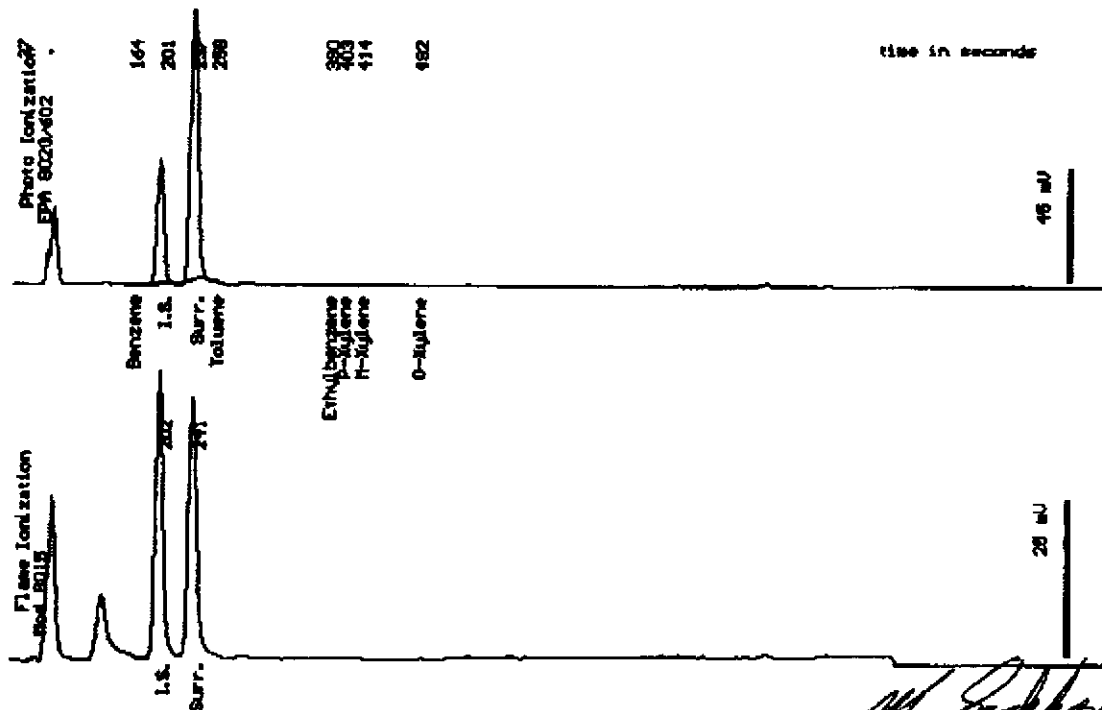
Sample Log 9537  
9537-5

Sample: MN-5

From : Project # 94-574-01 (Former Beacon 574)  
Sampled : 06/02/94  
Dilution : 1:1  
Matrix : Water

QC Batch : 2083B

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: 06-08-94  
Column : 0.82mm ID X 30m DBWAX (J&W Scientific)

*Mira Sarkhosh*  
Mira Sarkhosh  
Senior Chemist



Sample: MW-6

From : Project # 94-574-01 (Former Beacon 574)

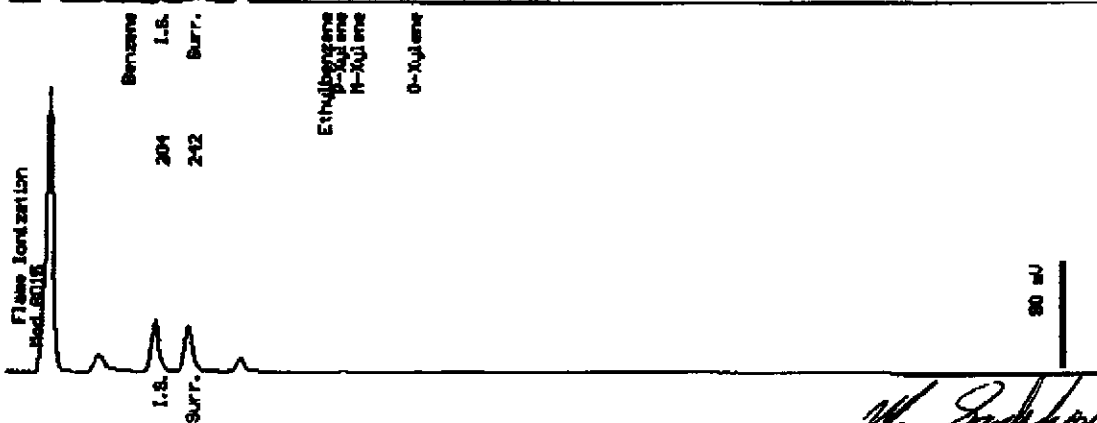
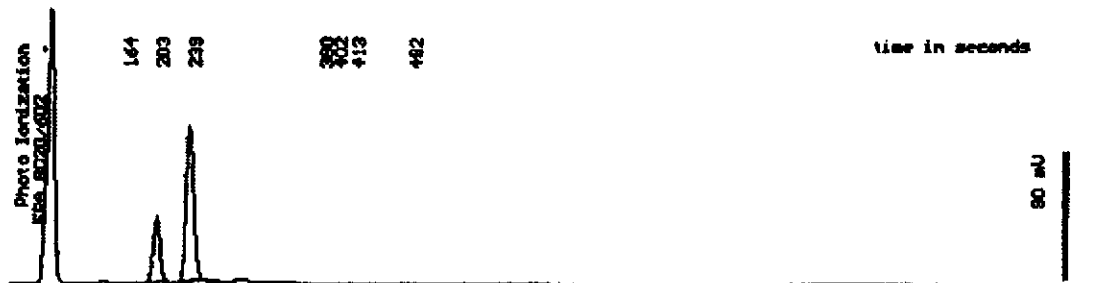
Sampled : 06/02/94

Dilution : 1:1

QC Batch : 2083B

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)	190
Surrogate Recovery		105 %



Date Analyzed: 06-08-94  
Column : 0.62mm ID X 30m DBM-X (J&W Scientific)

*M. Sarkhoob*  
Mitra Sarkhoob  
Senior Chemist





Sample Log 9537

9537-7

Sample: MW-7

From : Project # 94-574-01 (Former Beacon 574)

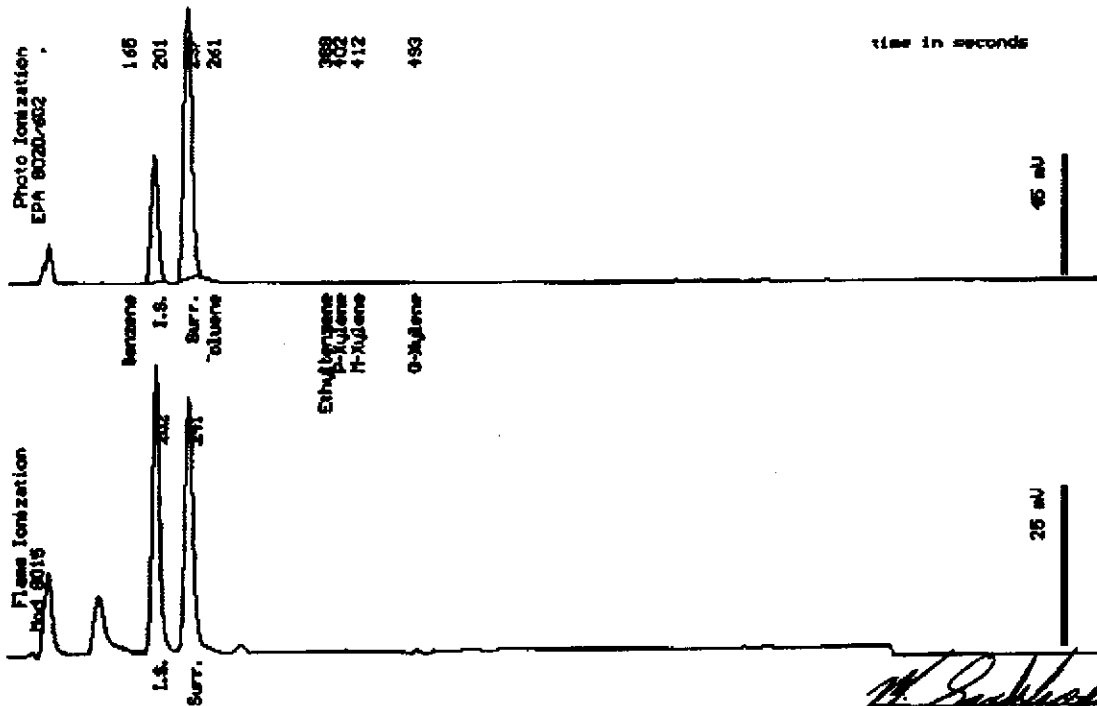
Sampled : 06/02/94

Dilution : 1:1

QC Batch : 2083B

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		104 %



Date Analyzed: 06-08-94  
Column : 0.53mm ID X 30m DBMIX (J&M Scientific)

*[Signature]*  
Rita Sarkhosh  
Senior Chemist



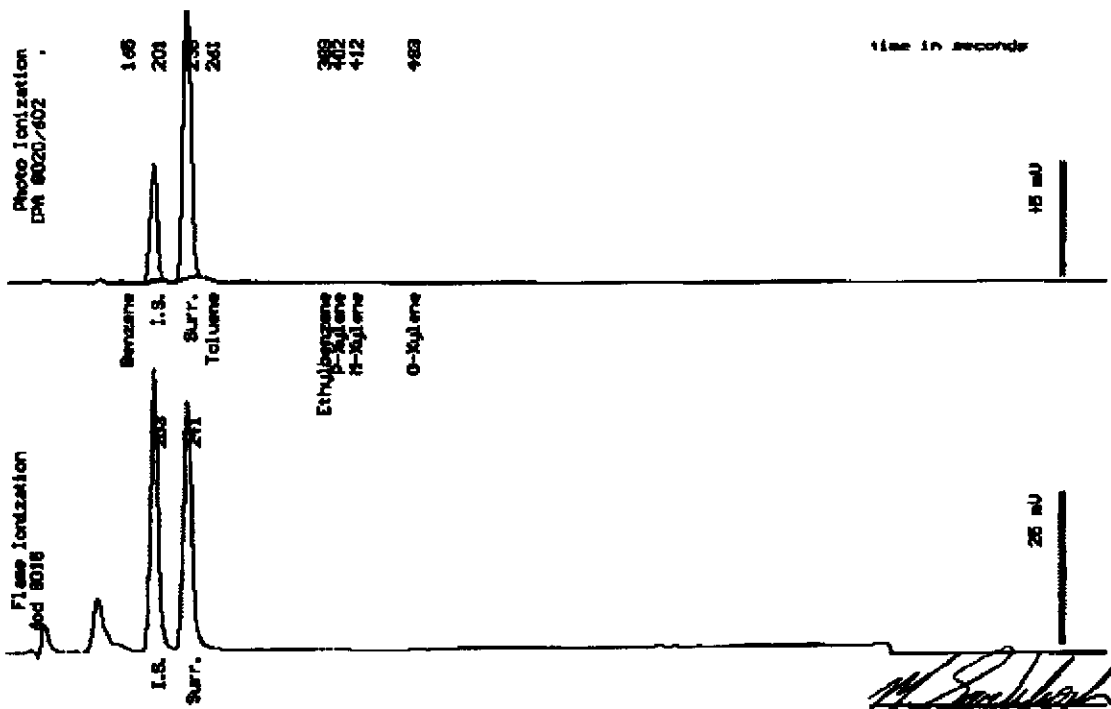
Sample Log 9537  
9537-8

Sample: MW-8

From : Project # 94-574-01 (Former Beacon 574)  
Sampled : 06/02/94  
Dilution : 1:1  
Matrix : Water

QC Batch : 2083B

Parameter	(NRL) $\mu\text{g/L}$	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		104 %



Date Analyzed: 06-09-94  
Column: 0.32mm ID X 30m DBMIX (J&M Scientific)

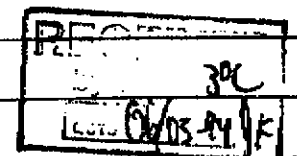
*[Signature]*  
Ultra Sarkhosh  
Senior Chemist



**Ultram Inc.**  
**CHAIN OF CUSTODY REPORT**

**BEACON**

Beacon Station No. <i>Former Beacon 574</i>		Sampler (Print Name) <i>Hal Hansen</i>			ANALYSES		Date <i>6-3-94</i>	Form No. <i>1 of 1</i>
Project No. <i>94-574-01</i>		Sampler (Signature) <i>Hal Hansen</i>			BTEX TPH (gasoline) TPH (diesel)	No. of Containers <i>3</i>	REMARKS  <i>5 day TAT</i>	
Project Location <i>22315 Redwood Rd., Castro Valley Ca.</i>		Affiliation <i>Santos Env.</i>						
Sample No./Identification	Date	Time	Lab No.					
<i>MW-1</i>	<i>6-2-94</i>	<i>9:20</i>		<i>X</i>				
<i>MW-2</i>		<i>8:14</i>						
<i>MW-3</i>		<i>8:05</i>						
<i>MW-4</i>		<i>7:20</i>						
<i>MW-5</i>		<i>5:20</i>						
<i>MW-6</i>		<i>6:00</i>						
<i>MW-7</i>		<i>6:35</i>						
<i>MW-8</i>		<i>6:56</i>						
Relinquished by: (Signature/Affiliation) <i>Hal Hansen Santos Env.</i>		Date <i>6/3/94</i>	Time <i>10:15</i>	Received by: (Signature/Affiliation) <i>Chie Horn</i>		Date <i>6/3/94</i>	Time <i>10:15</i>	
Relinquished by: (Signature/Affiliation)		Date	Time	Received by: (Signature/Affiliation)		Date	Time	
Relinquished by: (Signature/Affiliation) <i>Chie Horn</i>		Date <i>6/3/94</i>	Time <i>11:15</i>	Received by: (Signature/Affiliation) <i>John K...</i>		Date <i>6/3/94</i>	Time <i>11:15</i>	
Report To: <i>Fax Results to Sheila Redgela (916) 782-1277</i>				Bill to: <b>ULTRAMAR INC.</b> 525 West Third Street Hanford, CA 93230 Attention: <i>Kenneth Earnest</i>				



WHITE: Return to Client with Report

YELLOW: Laboratory Copy

PINK: Originator Copy

32-8903 1/80

DOULOS ENVIRONMENTAL COMPANY  
GROUNDWATER/LIQUID LEVEL DATA  
(measurements in feet)

RECEIVED  
JUN 08 1994

Project Address: Former Beacon 574

Date: 6-2-94

22315 Redwood Rd Castro Valley, CA.

Project No.: 94-574-01

Recorded by: \_\_\_\_\_

Well No	Time	Well Elev. TOC	Depth to Gr. Water	Measured Total Depth	Gr. Water Elevation	Depth to Product	Product Thickness	Comments
MW-1	8:12		23.24	29.85		NA		Debraken odor marked
MW-2	7:49		21.59	29.69				Debraken odor
MW-3	7:28		22.29	29.56				Debraken odor
MW-4	7:11		17.68	28.12				no odor
MW-5	5:13		16.19	25.00				
MW-6	5:45		21.37	29.98				
MW-7	6:19		23.22	30.12				
MW-8	6:46		22.29	34.04				

Notes:

Client: Ultramar

Sampling Date: 6/2/94

Site: Former Beacon 574

Project No.: 94-574-01

22315 Redwood Rd. Well Designation: MW-1

Castro Valley, CA.

Is setup of traffic control devices required?  NO YES time: \_\_\_\_\_ hours  
 Is there standing water in well box?  NO YES Above TOC Below TOC  
 Is top of casing cut level? NO  YES If no, see remarks  
 Is well cap sealed and locked? NO  YES If no, see remarks  
 Height of well casing riser (in inches): 2  
 Well cover type: 8" UV \_\_\_\_\_ 12" UV  12" EMCO \_\_\_\_\_ 8" BK \_\_\_\_\_  
 12" BK \_\_\_\_\_ 12" DWP \_\_\_\_\_ 12" CNI \_\_\_\_\_ 36" CNI \_\_\_\_\_ Other \_\_\_\_\_  
 General condition of wellhead assembly: Excellent  GOOD Fair Poor

Purging Equipment: \_\_\_\_\_ 2" disposable bailer \_\_\_\_\_ Submersible pump  
 \_\_\_\_\_ 2" PVC bailer \_\_\_\_\_ Dedicated bailer  
 \_\_\_\_\_ 4" PVC bailer  Centrifugal pump

Sampled with: Disposal bailer:  Teflon bailer: \_\_\_\_\_

Well Diameter: 2" \_\_\_\_\_ 4"  6" \_\_\_\_\_ 8" \_\_\_\_\_

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement Time: 8:19 Recharge Measurement Time: 9:18  
 Depth of well: 29.85 Depth to water: 24.91 Calculated purge: 17.1 gal  
 Depth to water: 23.24 Actual purge: 17.1 gal

Start purge: 8:13 Sampling time: 9:20

Time	Temp.	E.C.	pH	Turbidity	Volume
8:13	65.6	1413	7.12	_____	1
8:20	65.7	1840	7.05	_____	2
8:30	65.9	1830	6.43	_____	3
8:39	65.9	1824	6.41	_____	4

Pump out  
Pump in

Sample appearance: clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item  
 2" Locking Cap: \_\_\_\_\_ Lock #3753: \_\_\_\_\_ 7/32 Allenhead: \_\_\_\_\_  
 4" Locking Cap: \_\_\_\_\_ Lock-Dolphin: \_\_\_\_\_ 9/16 Bolt: \_\_\_\_\_  
 6" Locking Cap: \_\_\_\_\_ Pinned Allenhead (DWP): \_\_\_\_\_

Remarks: \_\_\_\_\_

Signature: [Signature]

Client: ultramar

Sampling Date: 6/2/94

Site: Former Beacon 574

Project No.: 94-574-01

22315 Redwood Rd.

Well Designation: MW-2

Castro Valley - CA.

Is setup of traffic control devices required? ~~NO~~ YES time: \_\_\_\_\_ hours  
 Is there standing water in well box? ~~NO~~ YES Above TOC Below TOC  
 Is top of casing cut level? NO ~~YES~~ If no, see remarks  
 Is well cap sealed and locked? NO ~~YES~~ If no, see remarks  
 Height of well casing riser (in inches): 1/2  
 Well cover type: 8" UV \_\_\_\_\_ 12" UV X 12" EMCO \_\_\_\_\_ 8" BK \_\_\_\_\_  
 12" BK \_\_\_\_\_ 12" DWP \_\_\_\_\_ 12" CNI \_\_\_\_\_ 36" CNI \_\_\_\_\_ Other \_\_\_\_\_  
 General condition of wellhead assembly: Excellent GOOD Fair Poor

Purging Equipment: \_\_\_\_\_ 2" disposable bailer \_\_\_\_\_ Submersible pump  
 \_\_\_\_\_ 2" PVC bailer \_\_\_\_\_ Dedicated bailer  
 \_\_\_\_\_ 4" PVC bailer X Centrifugal pump

Sampled with: Disposal bailer: X Teflon bailer: \_\_\_\_\_

Well Diameter: 2" \_\_\_\_\_ 4" X 6" \_\_\_\_\_ 8" \_\_\_\_\_

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.  
Initial Measurement Recharge Measurement  
 Time: 7:49 Time: 8:06 Calculated purge: 21.0 ga  
 Depth of well: 29.69 Depth to water: 22.94 Actual purge: 21.0 ga  
 Depth to water: 21.59

Start purge: 7:50 Sampling time: 8:18

Time	Temp.	E.C.	pH	Turbidity	Volume
7:55	64.7	10.21	6.54	—	1
8:01	64.8	10.10	6.71	—	2
8:09	64.8	11.01	6.91	—	3
8:15	64.9	11.05	6.94	—	4

Sample appearance: clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item  
 2" Locking Cap: \_\_\_\_\_ Lock #3753: \_\_\_\_\_ 7/32 Allenhead: \_\_\_\_\_  
 4" Locking Cap: \_\_\_\_\_ Lock-Dolphin: \_\_\_\_\_ 9/16 Bolt: \_\_\_\_\_  
 6" Locking Cap: \_\_\_\_\_ Pinned Allenhead (DWP): \_\_\_\_\_

Remarks: \_\_\_\_\_

Signature: [Signature]

Client: Wttramar  
 Site: Former Beacon 574  
22315 Redwood Rd.  
Castro Valley, CA.

Sampling Date: 6/2/94  
 Project No.: 94-574-01  
 Well Designation: MW-3

Is setup of traffic control devices required?  NO YES time: \_\_\_\_\_ hours  
 Is there standing water in well box?  NO YES Above TOC Below TOC  
 Is top of casing cut level? NO  YES If no, see remarks  
 Is well cap sealed and locked? NO  YES If no, see remarks  
 Height of well casing riser (in inches): 4  
 Well cover type: 8" UV \_\_\_\_\_ 12" UV  12" EMCO \_\_\_\_\_ 8" BK \_\_\_\_\_  
 12" BK \_\_\_\_\_ 12" DWP \_\_\_\_\_ 12" CNI \_\_\_\_\_ 36" CNI \_\_\_\_\_ Other \_\_\_\_\_  
 General condition of wellhead assembly: Excellent  Good Fair Poor

Purging Equipment: \_\_\_\_\_ 2" disposable bailer \_\_\_\_\_ Submersible pump  
 \_\_\_\_\_ 2" PVC bailer \_\_\_\_\_ Dedicated bailer  
 \_\_\_\_\_ 4" PVC bailer  Centrifugal pump

Sampled with: Disposal bailer:  Teflon bailer: \_\_\_\_\_

Well Diameter: 2" \_\_\_\_\_ 4"  6" \_\_\_\_\_ 8" \_\_\_\_\_

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.  
 Initial Measurement Recharge Measurement  
 Time: 7:28 Time: 8:00 Calculated purge: 18.9 gal  
 Depth of well: 29.56 Depth to water: 22.80 Actual purge: 18.9 gal  
 Depth to water: 22.29

Start purge: 7:33 Sampling time: 8:05

Time	Temp.	E.C.	pH	Turbidity	Volume
7:34	65.5	1782	7.45	—	1
7:39	65.5	1863	7.39	—	2
7:41	65.7	1981	7.12	—	3
7:45	65.9	1861	7.21	—	4

Sample appearance: cloudy Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item  
 2" Locking Cap: \_\_\_\_\_ Lock #3753: \_\_\_\_\_ 7/32 Allenhead: \_\_\_\_\_  
 4" Locking Cap: \_\_\_\_\_ Lock-Dolphin: \_\_\_\_\_ 9/16 Bolt: \_\_\_\_\_  
 6" Locking Cap: \_\_\_\_\_ Pinned Allenhead (DWP): \_\_\_\_\_

Remarks: \_\_\_\_\_

Signature: Neil Wanda

Client: Ultramar  
 Site: Fomer Beacon 974  
22315 Redwood Rd.  
Castro Valley - CA.

Sampling Date: 6/2/94  
 Project No.: 94-574-01  
 Well Designation: MW-4

Is setup of traffic control devices required?  NO  YES time: \_\_\_\_\_ hours  
 Is there standing water in well box?  NO  YES Above TOC Below TOC  
 Is top of casing cut level?  NO  YES If no, see remarks  
 Is well cap sealed and locked?  NO  YES If no, see remarks  
 Height of well casing riser (in inches): 6  
 Well cover type: 8" UV  12" UV \_\_\_\_\_ 12" EMCO \_\_\_\_\_ 8" BK \_\_\_\_\_  
 12" BK \_\_\_\_\_ 12" DWP \_\_\_\_\_ 12" CNI \_\_\_\_\_ 36" CNI \_\_\_\_\_ Other \_\_\_\_\_  
 General condition of wellhead assembly: Excellent  Good  Fair  Poor

Purging Equipment: \_\_\_\_\_ 2" disposable bailer \_\_\_\_\_ Submersible pump  
 \_\_\_\_\_ 2" PVC bailer \_\_\_\_\_ Dedicated bailer  
 \_\_\_\_\_ 4" PVC bailer  Centrifugal pump

Sampled with: Disposal bailer:  Teflon bailer: \_\_\_\_\_

Well Diameter: 2"  4" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement Time: 7:11 Recharge Measurement Time: 7:18 Calculated purge: 6.6 gal  
 Depth of well: 28.12 Depth to water: 17:41 Actual purge: 6.6 gal  
 Depth to water: 17.68

Start purge: 7:13 Sampling time: 7:20

Time	Temp.	E.C.	pH	Turbidity	Volume
7:14	66.4	1243	7.89	—	1
7:14	66.6	1221	7.73	—	2
7:15	66.7	1199	7.51	—	3
7:16	66.7	1198	7.44	—	4

Sample appearance: cloudy Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item  
 2" Locking Cap: \_\_\_\_\_ Lock #3753: \_\_\_\_\_ 7/32 Allenhead: \_\_\_\_\_  
 4" Locking Cap: \_\_\_\_\_ Lock-Dolphin: \_\_\_\_\_ 9/16 Bolt: \_\_\_\_\_  
 6" Locking Cap: \_\_\_\_\_ Pinned Allenhead (DWP): \_\_\_\_\_

Remarks: \_\_\_\_\_

Signature: [Signature]



Client: Ultraman

Sampling Date: 6-2-94

Site: Four Ocean 574

Project No.: 94-574-01

22315 Redwood Rd

Well Designation: MW-5

Central Valley Co

Is setup of traffic control devices required?  NO YES time: \_\_\_\_\_ hours  
 Is there standing water in well box? NO  YES Above TOC  Below TOC  
 Is top of casing cut level? NO  YES If no, see remarks  
 Is well cap sealed and locked? NO  YES If no, see remarks  
 Height of well casing riser (in inches): \_\_\_\_\_  
 Well cover type: 8" UV  12" UV \_\_\_\_\_ 12" EMCO \_\_\_\_\_ 8" BK \_\_\_\_\_  
 12" BK \_\_\_\_\_ 12" DWP \_\_\_\_\_ 12" CNI \_\_\_\_\_ 36" CNI \_\_\_\_\_ Other \_\_\_\_\_  
 General condition of wellhead assembly: Excellent  Good Fair Poor

Purging Equipment: \_\_\_\_\_ 2" disposable bailer \_\_\_\_\_ Submersible pump  
 \_\_\_\_\_ 2" PVC bailer \_\_\_\_\_ Dedicated bailer  
 \_\_\_\_\_ 4" PVC bailer  Centrifugal pump

Sampled with: Disposal bailer:  Teflon bailer: \_\_\_\_\_

Well Diameter: 2"  4" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.  
Initial Measurement Time: 5:13  
Recharge Measurement Time: 5:17 Calculated purge: 5.6 ml  
 Depth of well: 25.00 Depth to water: 16:25 Actual purge: 5.6 ml  
 Depth to water: 16.17

Start purge: 5:19 Sampling time: 5:20

Time	Temp.	E.C.	pH	Turbidity	Volume
5:14	67.0	695	7.71	—	1
5:14	67.1	673	7.58	—	2
5:15	67.3	651	7.51	—	3
5:15	67.4	624	7.47	—	4

Sample appearance: clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item  
 2" Locking Cap: \_\_\_\_\_ Lock #3753: \_\_\_\_\_ 7/32 Allenhead: \_\_\_\_\_  
 4" Locking Cap: \_\_\_\_\_ Lock-Dolphin: \_\_\_\_\_ 9/16 Bolt: \_\_\_\_\_  
 6" Locking Cap: \_\_\_\_\_ Pinned Allenhead (DWP): \_\_\_\_\_

Remarks: \_\_\_\_\_

Signature: Walt Nancy

Client: Wthamar  
 Site: Former Beacon 574  
22315 Redwood Rd.  
Castro Valley, CA.

Sampling Date: 6/2/94  
 Project No.: 94-574-01  
 Well Designation: MW-6

Is setup of traffic control devices required?  NO YES time: \_\_\_\_\_ hours  
 Is there standing water in well box?  NO YES Above TOC Below TOC  
 Is top of casing cut level? NO  YES If no, see remarks  
 Is well cap sealed and locked? NO  YES If no, see remarks  
 Height of well casing riser (in inches): 12  
 Well cover type: 8" UV  12" UV \_\_\_\_\_ 12" EMCO \_\_\_\_\_ 8" BK \_\_\_\_\_  
 12" BK \_\_\_\_\_ 12" DWP \_\_\_\_\_ 12" CNI \_\_\_\_\_ 36" CNI \_\_\_\_\_ Other \_\_\_\_\_  
 General condition of wellhead assembly: Excellent  Good Fair Poor

Purging Equipment: \_\_\_\_\_ 2" disposable bailer \_\_\_\_\_ Submersible pump  
 \_\_\_\_\_ 2" PVC bailer \_\_\_\_\_ Dedicated bailer  
 \_\_\_\_\_ 4" PVC bailer  Centrifugal pump

Sampled with: Disposal bailer:  Teflon bailer: \_\_\_\_\_

Well Diameter: 2"  4" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.  
Initial Measurement Recharge Measurement  
 Time: 5:45 Time: 5:59 Calculated purge: 5.5 gal  
 Depth of well: 29.98 Depth to water: 23.21 Actual purge: 5.5 gal  
 Depth to water: 21.37

Start purge: 5:50 Sampling time: 600

Time	Temp.	E.C.	pH	Turbidity	Volume
5:51	66.8	1182	7.21	—	1
5:52	66.9	1164	7.19	—	2
5:52	67.2	1142	7.15	—	3
5:53	67.1	1133	7.07	—	4

Sample appearance: Clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item  
 2" Locking Cap: \_\_\_\_\_ Lock #3753: \_\_\_\_\_ 7/32 Allenhead: \_\_\_\_\_  
 4" Locking Cap: \_\_\_\_\_ Lock-Dolphin: \_\_\_\_\_ 9/16 Bolt: \_\_\_\_\_  
 6" Locking Cap: \_\_\_\_\_ Pinned Allenhead (DWP): \_\_\_\_\_

Remarks: \_\_\_\_\_

Signature: Neil Hansen

Client: Uthmaniyah  
Site: Former Beacon 974  
22315 Redwood Rd.  
Castro Valley, CA

Sampling Date: 6/2/94  
Project No.: 94-574-01  
Well Designation: MW-7

Is setup of traffic control devices required? ~~NO~~ YES time: \_\_\_\_\_ hours  
Is there standing water in well box? ~~NO~~ YES Above TOC Below TOC  
Is top of casing cut level? NO ~~YES~~ If no, see remarks  
Is well cap sealed and locked? NO ~~YES~~ If no, see remarks  
Height of well casing riser (in inches): 8  
Well cover type: 8" UV X 12" UV \_\_\_\_\_ 12" EMCO \_\_\_\_\_ 8" BK \_\_\_\_\_  
12" BK \_\_\_\_\_ 12" DWP \_\_\_\_\_ 12" CNI \_\_\_\_\_ 36" CNI \_\_\_\_\_ Other \_\_\_\_\_  
General condition of wellhead assembly: Excellent Good Fair Poor

Purging Equipment: \_\_\_\_\_ 2" disposable bailer \_\_\_\_\_ Submersible pump  
\_\_\_\_\_ 2" PVC bailer \_\_\_\_\_ Dedicated bailer  
\_\_\_\_\_ 4" PVC bailer X Centrifugal pump

Sampled with: Disposal bailer: X Teflon bailer: \_\_\_\_\_

Well Diameter: 2" X 4" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.  
Initial Measurement Recharge Measurement  
Time: 6:19 Time: 6:25 Calculated purge: 4.4 gal  
Depth of well: 30.12 Depth to water: 23.41 Actual purge: 4.4 gal  
Depth to water: 93.22

Start purge: 6:21 Sampling time: 6:35

Time	Temp.	E.C.	pH	Turbidity	Volume
6:22	67.2	853	7.94	—	1
6:22	67.4	851	7.13	—	2
6:23	67.5	849	6.98	—	3
6:24	67.6	846	6.94	—	4

Sample appearance: clear Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item  
2" Locking Cap: \_\_\_\_\_ Lock #3753: \_\_\_\_\_ 7/32 Allenhead: \_\_\_\_\_  
4" Locking Cap: \_\_\_\_\_ Lock-Dolphin: \_\_\_\_\_ 9/16 Bolt: \_\_\_\_\_  
6" Locking Cap: \_\_\_\_\_ Pinned Allenhead (DWP): \_\_\_\_\_

Remarks: \_\_\_\_\_

Signature: [Handwritten Signature]

Client: Ultramar  
Site: Former Blacon ST4  
22315 Redwood Rd.  
Contra Costa, CA.

Sampling Date: 6/2/94  
Project No.: 94-574-01  
Well Designation: MW-8

Is setup of traffic control devices required?  NO YES time: \_\_\_\_\_ hours  
Is there standing water in well box?  NO YES Above TOC Below TOC  
Is top of casing cut level?  NO  YES If no, see remarks  
Is well cap sealed and locked?  NO  YES If no, see remarks  
Height of well casing riser (in inches): 8  
Well cover type: 8" UV  12" UV \_\_\_\_\_ 12" EMCO \_\_\_\_\_ 8" BK \_\_\_\_\_  
12" BK \_\_\_\_\_ 12" DWP \_\_\_\_\_ 12" CNI \_\_\_\_\_ 36" CNI \_\_\_\_\_ Other \_\_\_\_\_  
General condition of wellhead assembly: Excellent  Good Fair Poor

Purging Equipment: \_\_\_\_\_ 2" disposable bailer \_\_\_\_\_ Submersible pump  
\_\_\_\_\_ 2" PVC bailer \_\_\_\_\_ Dedicated bailer  
\_\_\_\_\_ 4" PVC bailer  Centrifugal pump  
Sampled with: Disposal bailer:  Teflon bailer: \_\_\_\_\_

Well Diameter: 2"  4" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.  
Initial Measurement Recharge Measurement  
Time: 6:46 Time: 6:55 Calculated purge: 7.5 gal  
Depth of well: 34.04 Depth to water: 22:31 Actual purge: 7.5 gal  
Depth to water: 99.29

Start purge: 6:47 Sampling time: 6:56

Time	Temp.	E.C.	pH	Turbidity	Volume
6:48	68.3	882	7.10	—	1
6:49	68.2	889	6.95	—	2
6:51	68.3	861	6.91	—	3
6:53	68.4	854	6.84	—	4

Sample appearance: cloudy Lock: Dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item  
2" Locking Cap: \_\_\_\_\_ Lock #3753: \_\_\_\_\_ 7/32 Allenhead: \_\_\_\_\_  
4" Locking Cap: \_\_\_\_\_ Lock-Dolphin: \_\_\_\_\_ 9/16 Bolt: \_\_\_\_\_  
6" Locking Cap: \_\_\_\_\_ Pinned Allenhead (DWP): \_\_\_\_\_

Remarks: \_\_\_\_\_

Signature: [Signature]