Ultramar

Ultramar, Inc. P.O. Box 466 525 W. Third Street Hanford, CA 93232-0466 (209) 582-0241 Telecopy: 209-585-5685 Credit 209-583-3330 Administrative 209-583-3302 Information Services 209-583-3358 Accounting

September 8, 1995

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 1995 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 1995 Groundwater Monitoring Report

Quarterly Status Report

cc w/encl:

Mr. Rich Hiett, San Francisco Bay Region, RWQCB

Mr. Peter J. Pugnale, Shell Oil Company



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#1 Quality and Service

Ultramar

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ENVIRONMENTAL PROJECT QUARTERLY STATUS REPORT

DATE REPORT SUBMITTED: September 8, 1995

QUARTER ENDING: June 30, 1995

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 Soil samples were collected from beneath the tanks the site. hydrocarbon constituents. Based on analyzed for 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 Soil was overexcavated from beneath the former fuel tanks. Soil samples were collected after the over-excavation tanks. and confirmed that the addition excavation was successful.

During March 1991, three ground-water monitoring wells were Laboratory analysis of soil samples installed on-site. the borings for the installation of the obtained from 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 With the installation of these new wells the site is 1993. fully defined.

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

Submitted PAR/RAP during the fourth quarter 1994.

SUMMARY OF THIS QUARTER'S ACTIVITIES:

Performed second quarter monitoring on June 14, 1995.





Page 2 Former Station #574 Castro Valley, CA

RESULT OF QUARTERLY MONITORING:

Results indicate that since the previous sampling event TPH-g concentrations in MW-6 have increased from 180 ppb to 220 ppb.

PROPOSED ACTIVITY OR WORK FOR NEXT QUARTER:

ACTIVITY

ESTIMATED COMPLETION DATE

Third quarter monitoring

September 1995

Remained by afreech on 10/27/95

FUGRO WEST, INC.



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

August 29, 1995

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

Subject:

Second Quarter 1995 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 14, 1995 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 0.46 feet compared to the last monitoring event.



GROUNDWATER SAMPLING AND ANALYSES

Groundwater samples were collected from three 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. The laboratory report and chain-of-custody form for the current sampling event are attached. Benzene concentrations remain nondetectable in wells MW-5, MW-6, and MW-7.

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 Hiett 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.

Dianne Carlisle

for Sheila R. Richgels

Report Coordinator

Owen M. Kittrede Registered Geologist

Registered Geologist CRG No. 5853

No. 5853 No. 5853

Date

SRR/OMK/srr

Attachments

FIGURE 1 SITE LOCATION MAP

FIGURE 2 POTENTIOMETRIC SURFACE MAP

(JUNE 14, 1995)

TABLES: TABLE 1 WATER LEVEL DATA

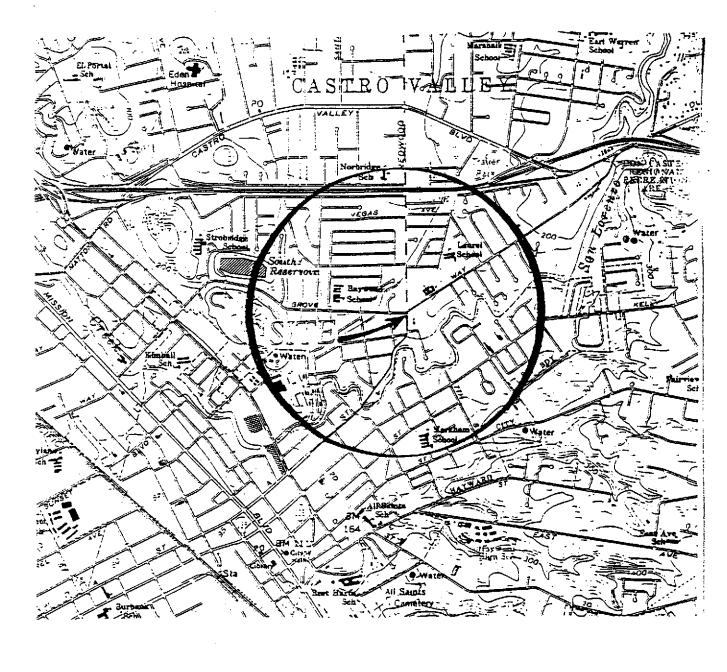
TABLE 2 ANALYTICAL RESULTS: GROUNDWATER

ATTACHMENTS: ULTRAMAR FIELD PROCEDURES

HISTORICAL DATA

LABORATORY REPORT AND CHAIN-OF-CUSTODY FORM

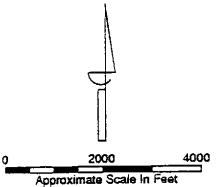
DOULOS ENVIRONMENTAL FIELD DATA SHEETS





GENERAL NOTES:

BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC HAYWARD, CA



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DRAWN BY: J. Paradis	
DATE: May 23, 1994	
REVISED 6Y:	
DATE	l

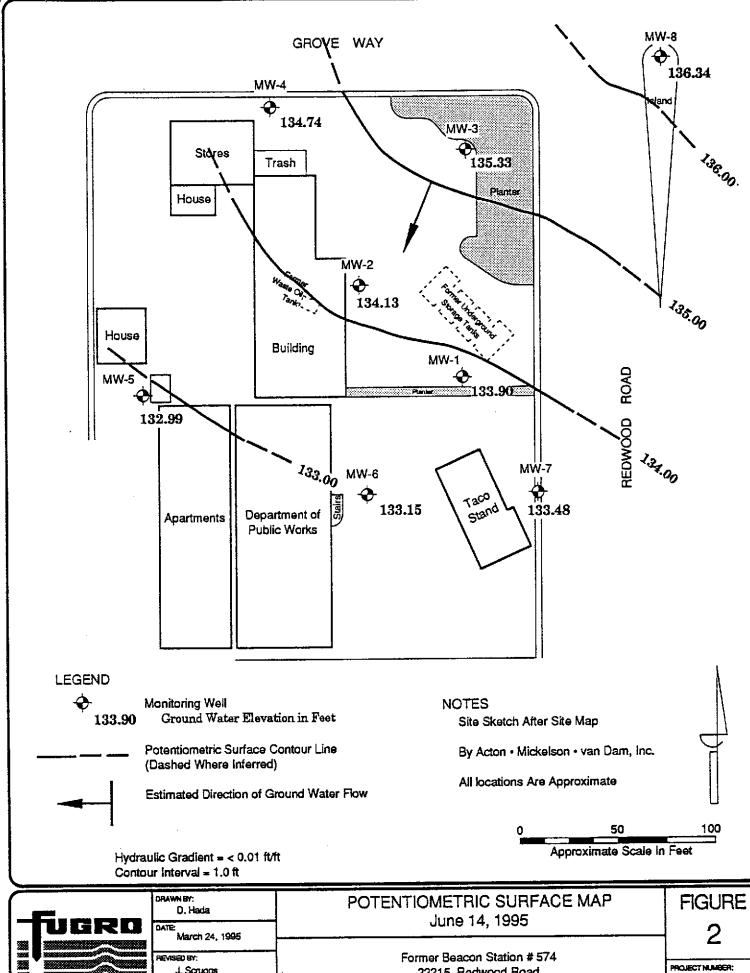
SITE LOCATION MAP

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

-

PROJECT NUMBER:

9546-0021



J. Scruggs 22315 Redwood Road Castro Vailey, CA 9546-0021 July 28, 1995

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) ^t	Depth to Groundwater ⁱ	Groundwater Elevation ²	Well Depth	Comments
MW-I	03/27/92	156.55	22.43	134.12		
191 44 - 1	06/04/92	2000-	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	
	09/09/94		23.93	132.62	29.86	
	12/20/94		22.94	133.61	29.85	
	03/08/95		22.20	134.35	29.71	
	06/14/95		22.65	133.90	29.70	
MW-2	03/27/92	155.17	20.82	134,35		
N1 W - 2	06/04/92	155.17	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	ļ	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	
	09/09/94		22.33	132.84	29.66	
	12/20/94		21.37	133.80	29.65	
	03/08/95		20.60	134.57	29.52	
	06/14/95		21.04	[34.13	29.54	
MW-3	03/27/92	157.13	21.46	135.67		
C+ AN TA"	06/04/92	137.13	22.34	134.79		Į
	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	1
	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	1
: !	06/02/94		22.29	134.84	29.56	1
	09/09/94		22.91	134.22	29.56	
	12/20/94		22.11	135.02	29.54	1
٠	03/08/95		21,40	135.73	29.38	
	06/14/95	1	21.80	135.33	29.36	<u> </u>

NOTES:

Measurement and reference elevation taken from notch/mark on top north side of well casing.

Well Depth

Elevation referenced to mean sea level.

Measurement from top of casing to bottom of well.

Not measured.

Fugro 9546-0021-574/June 1995

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) ¹	Depth to Groundwater ¹	Groundwater Elevation ²	Well Depth	Comments
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	
	09/09/94		18.19	133.77	28.13	
	12/20/94	1	17.52	134.44	28.10	
	03/08/95		16.82	135.14	27.97	
	06/14/95		17.22	134.74	27.97	
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	
	09/09/94		16.87	131.81	25.00	
	12/20/94		15.84	132.84	25.01	
	03/08/95		15.11	133.57	24.85	
	06/14/95		15.69	132.99	24.86	
MW-6	05/18/93	153.96	20.80	133.16		<u> </u>
	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	
	09/09/94		22.05	131.91	29.96	
	12/20/94		21.06	132.90	29.89	
	03/08/95		20.29	133.67	29.67	
·	06/14/95		20.81	133.15	29.65	
MW-7	05/18/93	156.09	22.64	133.45	30.75	
	08/11/93		23.25	132.84	30.75	İ
	11/05/93		23.93	132.16	30.73	
	03/01/94		22.72	133.37	30.11	
	06/02/94		23.22	132.87	30.12	
	09/09/94		23.90	132.19	30.12	
	12/20/94	1	22.98	133.11 133.95	29.91	
	03/08/95 06/14/95		22.14 22.61	133.48	29.91	
1477 0	05/18/93	158.04	21.55	136.49		
MW-8	08/11/93	150.04	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	
	09/09/94		22.99	135.05	34.04	
	12/20/94	1	22.14	135.90	33.98	
	03/08/95		21.25	136.79	34,48	
	06/14/95		21.70	136.34	34.49	

NOTES:

1

Measurement and reference elevation taken from notch/mark on top north side of well casing.

Elevation referenced to mean sex level.

Well Depth =

Measurement from top of casing to bottom of well.
 Not measured.

Fugro 9546-0021-574/June 1995

TABLE 2 ANALYTICAL RESULTS: GROUNDWATER BEACON STATION #574

22315 REDWOOD ROAD, CASTRO VALLEY, CALIFORNIA

(All results in parts-per-billion)

	Date Collected			Aromatic Volatile Organics				
		Gasoline	Diesel	Motor Oil	Benzene	Toluene	Ethyl- benzene	Total Xylenes
MW-1	03/27/92	5,600	<50	<50	760	900	230	1,100
	06/04/92	2,600	<800	NA	270	57	230	440
ļ	09/23/92	3,400	NA	NA	480	430	110	550
	11/12/92	2,700	NA	NA	5.8	<5.0	140	340
	02/02/93	8,500	NA	NA	760	770	250	1,200
	05/07/93	7,700	NA	NA	970	630	280	1,500
	08/11/93	11,000	NA	NA	1,400	1,000	260	1,600
	11/05/93	36,000	NA	NA	6,200	4,700	1,400	7,100
	03/01/94	3,800	NA	NA	580	490	110	620
	06/02/94	8,900	NA	NA	1,900	1,200	420	2,100
	09/09/94	4,300	NA.	NA	740	290	200	630
	12/20/94	3,900	NA.	NA	550	260	150	510
	03/08/95	8,100	NA.	NA	1,100	540	250	1,100
	06/14/95	NS NS	NS	NS	NS	ทร	NS	NS
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	29,000	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 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	30,000	NA	NA	3,100	2,900	860	3,700
	03/01/94	13,000	NA	NA.	1,500	490	350	1,000
	06/02/94	12,000	NA	NA	2,000	790	460	1,300
	09/09/94	13.000	NA	NA	1,300	660	440	1,000
	12/20/94	16,000	NA	NA	2,300	1,000	650	1,900
	03/08/95	16,000	NA	NA	2,200	1,000	550	2,100
	06/14/95	NS	N\$	NS	NS	NS	NS	NS
MW-3	03/27/92	160	<50	<50	9.2	4.8	10	23
-	06/04/92	120	<50	NA 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 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	13	4.9	14	31
	09/09/94	620	NA	NA	12	4.8	9.7	20
	12/20/94	770	NA	NA	24	11	16	36
	03/08/95	300	NA	NA	6.1	0.97	4.8	7.5
	06/14/95	NS	NS	NS	NS	NS	NS	NS

NOTES: < = Below indicated detection limit,

NS = Not sampled.

NA = Not analyzed.

Product is not typical gasoline.

Fugro

9546-0021-574/June 1995

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 I	etroleum Hydroc	arbons	Aromatic Volatile Organics			
		Gasoline	Diesel	Motor Oil	Benzene	Toluene	Ethyl- benzene	Total Xylenes
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
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	03/08/95	NS	NS	NS	หร	NS	NS	NS
	06/14/95	NS	NS	NS	NS	NS	NS	NS NS
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
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
:	03/08/95	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
717	06/14/95	<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	0.65
	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
	09/09/94	140	NA	NA	<0.5	<0.5	<0.5	<0.5
	12/20/94	210	NA	NA	<0.5	<0.5	<0.5	<0.5
	03/08/95	180*	NA	NA	<0.5	<0.5	<0.5	<0.5 <0.5
	06/14/95	220*	NA	NA	<0.5	<0.5	<0.5	20.3
MW-7	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5 <0.5
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	03/01/94	60	NA	NA	<0.5	<0.5	<0.5	<0.5
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	12/20/94	<50	NA.	NA	<0.5	<0.5	<0.5	<0.5
	03/08/95	<50	NA	NA	<0.5	<0.5	<0.5	<0.5 <0.5
	06/14/95	<50	NA	NA	<0.5	<0.5	<0.5	
MW-8	05/18/93	<50	NA	NA	<0.5	<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	NA	<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
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5
	03/08/95	NS	NS	NS	NS	NS	NS NS	NS
	06/14/95	NS	NS	NS	NS	NS	NS	NS

Below indicated detection limit. NOTES:

NS Not sampled.

Not analyzed.

Product is not typical gasoline.

Fugro

9546-0021-574/June 1995

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 formational 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)

Well	Dute C	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 -9 3		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- 9 3		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 -9 3	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)

		Dalp	roleum Hyd	recerbons	Arometis Voietilo Organico			
Maniforing Well	Date Collacted	Cleanline	tala in	Motor Oil	Senzener	Toluene	- Chylbaczene	Total Xylenes
					140	570	76	460
MW-1	04-01-91	4,100	<100	-50	140	900	230	1,100
	03-27-92	5,600	<50	<50	760	57	230	440
	06-04-92	2,600	<\$00	•	270		110	550
	09-23-92	3,400	-	-	480	430	140	340
	11-12-92	2,700	-	-	5.8	<5.0	250	1.200
	02-02-93	8,500	•	-	760	770		
	05-07-93	7,700		-	970	630	250	1,500
MW-2	04-01-91	10,000	<100	_	650	640	150	960
141 14 2	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
102 11 -0	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	•	<u>.</u> ·	2.6	1.2	3.9	8.4
MW-4	05-18-93	<50	•	-	<0.50	< 0.50	< 0.50	<0.5
MW-5	05-18-93	<50			<0.50	< 0.50	< 0.50	<0.5
MW-6	05-18-93	170	•	•	. <0.50	< 0,50	< 0.50	< 0.4
MW-7	05-18-93	<50		•	< 0.50	< 0.50	<0.50	<0
MW-8	05-18-93	<50	,		< 0.50	< 0.50	< 0.50	<0.5

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



June 27, 1995 Sample Log 12066

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

Subject: Analytical Results for 3 Water Samples
Identified as: Beacon 574 (Proj. # 94-574-01)

Received: 06/16/95

Dear Ms. Richgels:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on June 27, 1995 and describes procedures used to analyze the samples.

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

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

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

Approved by:

Senior Chemist



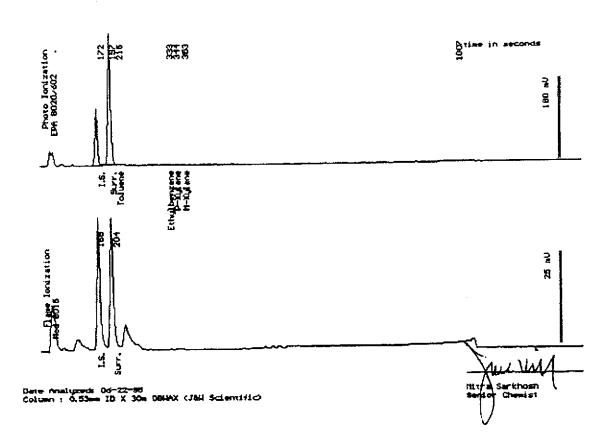
Sample Log 12066 12066-05

Sample: MW-5

From : Beacon 574 (Proj. # 94-574-01)

Sampled: 06/14/95 Dilution: 1:1 QC Batch : 2123B

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





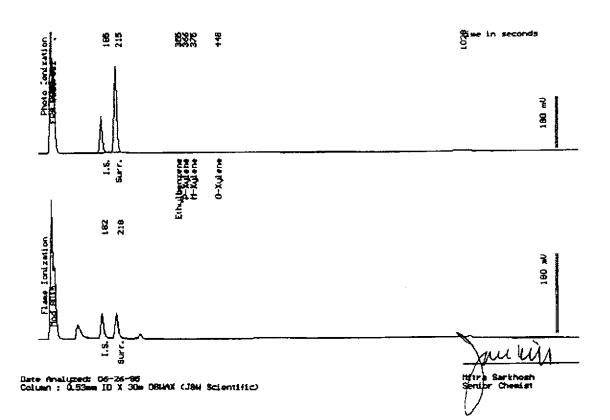
Sample Log 12066 12066-06

Sample: MW-6

From: Beacon 574 (Proj. # 94-574-01)
Sampled: 06/14/95
Dilution: 1:1 QC Batch

QC Batch : 2123G

Parameter	(MRL) wa/L	Measured Value 49/1
Benzene	(.50)	<.50
Toluene	(.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	220 *
Surrogate Recovery	100 %	





Sample Log 12066

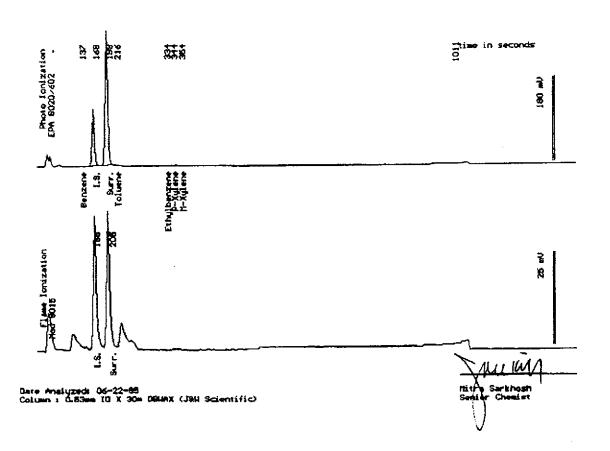
Sample: MW-7

From : Beacon 574 (Proj. # 94-574-01)

Sampled: 06/14/95 Dilution: 1:1

ilution: 1:1 QC Batch: 2123B

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





Sample Log 12066

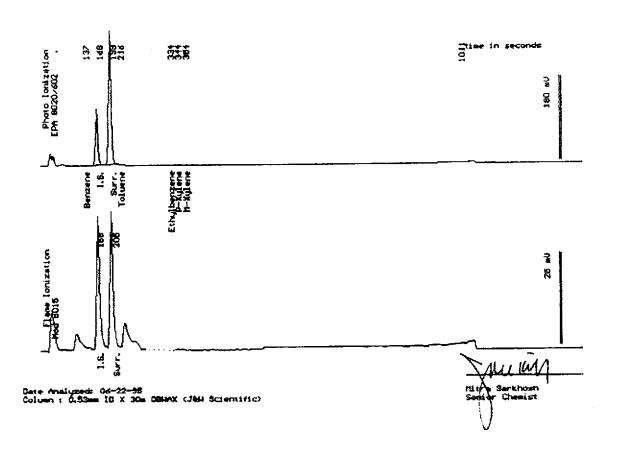
Sample: MW-7

From : Beacon 574 (Proj. # 94-574-01)

Sampled : 06/14/95 Dilution : 1:1

Dilution: 1:1 QC Batch: 2123B

Parameter	(MRL) wg/L	Measured Value ug/L
Benzene	(.50)	<.50
Toluene	(.50) (.50)	<.50
Ethylbenzene	(.50)	<.50
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery	1	103 %





Ultramar Inc.CHAIN OF CUSTODY REPORT

BEACON

Beacon Station No.	Sampler (Print	Name)			A N	ALVO	L.C.		Date (0-14-9)	Form No.	
514	Hal	Hansen		厂		ALYS			10-14-7	21 10, 1	
Project No.	Sampler (Signa	ture)									
94 - 574 - 01	9 dal 1	Lunar						Containers	Sta	indard	
Project Location Redwood Rd.) Affiliation				Sel			Y ta	[·	
22315 Reawood Rd.	Doub	os Enviro	nmental		38			ol Cc		TAT	
Castro Valley			·	BTEX 1911	TPH (diesel)			No	DEV	MARKS	
Sample No /Identification	Date	Time	Lab No.	l'' l'			-	_		IAIINO	
. MW-5	10-14-95	7:10		X)	X	$\bot \downarrow$		3			
MW-6	11	7:25					_ _	11			
MW-7	١,	7:50		V				1			
										6/100	100
		·						7	18 A C	TIME!	1070
			<u> </u>	++	+		\dashv	+			
				++	-				WEST	LAB	1
	1								C'	· ~~4 []	
									//		
Relinquished by: (Signature/Atfiliation)	Date	Time Receiv	ed by Signatu	re/Al	filiali	on)		V	7	Date	Time
Relinguished by: (Signature Affilianion)	Env. W/18	69/1 /2		,,,,,	X	4	N		$\mathbb{Z} \setminus \mathbb{Z}$	dist	215
Relinquished by: (Signature Affiliation)	Date	Time Recen	ved/by: (Signatu	ré/Ál	filiati	ön)	7/	, ,	•	Date	Time
THE STATE	1-11/15	1030			_						
Relinquished by (Bignature/Alfiliation)	Date	Time Receiv	red by: (Signatu	re/Af	lilia	en)				Date	Time
						red .			VE 41	11995	1030
Report To:		Bill to:	ULTRAMA: 525 West T			at					
Shall Richald							_		مسد	1	
Sheile Richaels			Attention: _			Ken	net	1h_	Earne	<u>st</u>	
WHITE: Return to Client with Report	YELLOW: Lab	oratory Copy	PINK: Ongi	nator	Cop	у				32-K	003 1 #90

DOULOS ENVIRONMENTAL COMPANY GROUNDWATER/LIQUID LEVEL DATA

(measurements in feet)

Project Address:	Beacon #574, 22315 Redwood Road	Date:	6-14-43	
	Castro Valley, CA	Project No.:	94-574-01	
Recorded by:	Hal Hansen			

Well No.	Time	Well Elev. TOC	Depth to Ground Water	Measured Total Depth	Ground Water Elevation	Depth to Product	Product Thickness	Comments
MW-1	631	6	22.65	29.70				
MW-2	627	i	21.04	29.54				
MW-3	613		21:80	29.36				
MW-4	610	L	17.22	27.97				
MW-5	604		15.69	2486				nooder nocheen no oder nocheen no odernocheen
Mw-6	609	3	10.81	29.65				no oda noaken
MW-7	612		22.61	29.91				noodomoakeen
MW-8	l .	7	21.70	34.49				

NOTES:

Signature: 929/Hanson

Signature: Hal Dlaven

Equipment replaced: (Check all that	it apply) Note o	condition of replaced items			
2" locking cap:	Lock #3753:	7/32 Allenhead:			
4" locking cap:	Lock-Dolphin:	9/16 bolt:			
6" locking cap:	Pinned	Pinned Allenhead (DPW):			
		H. C. Carlotte St.			
Remarks:					

Signature: Hal Kleman