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

April 5, 1999

Mr. Scott Seery Senior Hazardous Materials Specialist Alameda County Health Care Services Agency, Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Oakland, CA 94502-6577

SUBJECT:

Fourth Quarter 1998 Ground Water Monitoring Report

Former Beacon Station No. 574

22315 Redwood Road, Castro Valley, California

Dear Mr. Seery:

Enclosed is a copy of the Fourth Quarter 1998 Ground Water Monitoring Report, prepared by El Dorado Environmental Inc., for the above-referenced Ultramar facility. Also enclosed 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.

If you have questions regarding this project, please contact me at (559) 583-3231.

Sincerely,

ULTRAMAR INC.

Joseph A. Aldridge, RG Senior Project Manager

Retail Environmental Services

Enclosures:

Fourth Quarter 1998 Ground Water Monitoring Report

Quarterly Status Report

cc w/encl.:

Mr. Rich Hiett, CRWQCB-San Francisco Bay Region





Ultramar

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DATE REPORT SUBMITTED: April 5, 1999 QUARTER ENDING: December 31, 1998

FORMER SERVICE STATION NO.: 574

ADDRESS: 22315 Redwood Road, Castro Valley, CA

COUNTY: Alameda

ULTRAMAR CONTACT: Joseph A. Aldridge

TEL. NO: 559-583-3231

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 over-excavated 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 groundwater 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 groundwater monitoring wells in May of 1993. With the installation of these new wells the extent of impacted groundwater was fully defined.

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

Submitted a PAR/RAP during the fourth quarter 1994.

Monitoring Wells MW-7 and MW-8 were abandoned in September 1998, as required by the Alameda County Department of Public Works.

SUMMARY OF THIS QUARTER'S ACTIVITIES:

Performed quarterly groundwater monitoring on December 8, 1998.





RESULT OF QUARTERLY MONITORING:

Benzene was not detected in samples collected from the two off-site monitoring wells. MTBE was detected in one of the samples collected from the two off-site monitoring wells.

PROPOSED ACTIVITY OR WORK FOR NEXT QUARTER:

ACTIVITY

ESTIMATED COMPLETION DATE

Quarterly groundwater monitoring

March 1999

El Dorado Environmental, Inc.

2221 Goldorado Trail, El Dorado, California 95623

(916) 626-3898 Fax (916) 626-3899

March 21, 1999

Mr. Joe Aldridge Senior Project Manager Ultramar Inc. 525 West Third Street Hanford, California 93230

Subject:

Fourth Quarter 1998 Ground Water Monitoring Report

Former Beacon Station #574

22315 Redwood Road, Castro Valley, California

Dear Mr. Aldridge:

El Dorado Environmental, Inc. (EDE) has prepared this report to document the results of ground water monitoring conducted on December 8, 1998, at the subject site (Figure 1). The monitoring, conducted by Doulos Environmental (Doulos), included measurements of depth to ground water, subjective analysis for the presence or absence of free product, ground water purging and collection of ground water samples. Doulos reports that all field activities were conducted in accordance with the Ultramar Field Procedures described in Attachment A.

GROUND WATER ELEVATIONS

Prior to purging, Doulos collected depth to ground water measurements. Copies of Doulos' field data sheets are contained in Attachment B. Ground water elevation data collected since March 1992 are summarized in Table 1. Historical ground water elevation data are contained in Attachment C. On the basis of the current measurements, ground water flows toward the southwest (Figure 2) at a gradient of approximately 0.01 foot per foot. Ground water elevations decreased an average of 0.39 feet compared to the last monitoring event.

GROUND WATER SAMPLING AND ANALYSES

Ground water samples were collected from two monitoring wells (by agreement with Alameda County, ground water samples were collected only from monitoring wells MW-5 and MW-6). All samples were analyzed for concentrations of:

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

Analytical results collected since March 1992 are summarized in Table 2. Historical analytical data are contained in Attachment D. Figure 3 illustrates the inferred distribution of dissolved benzene in ground water based on the current data. The laboratory report and chain-of-custody form for the current sampling event are included in Attachment E. Benzene was not detected in ground water samples collected from monitoring wells MW-5 and MW-6.

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

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

Mr. Rich Hiett
California Regional Water Quality Control Board
San Francisco Bay Region
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 will be at such parties' sole risk.

If you have any questions or comments, please contact us at (530) 626-3898.

Regards,

EL DORADO ENVIRONMENTAL, INC.

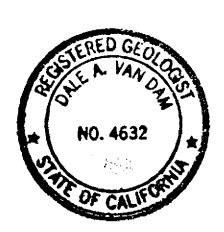
Dale A. van Dam, R.G.

Dale d. rul

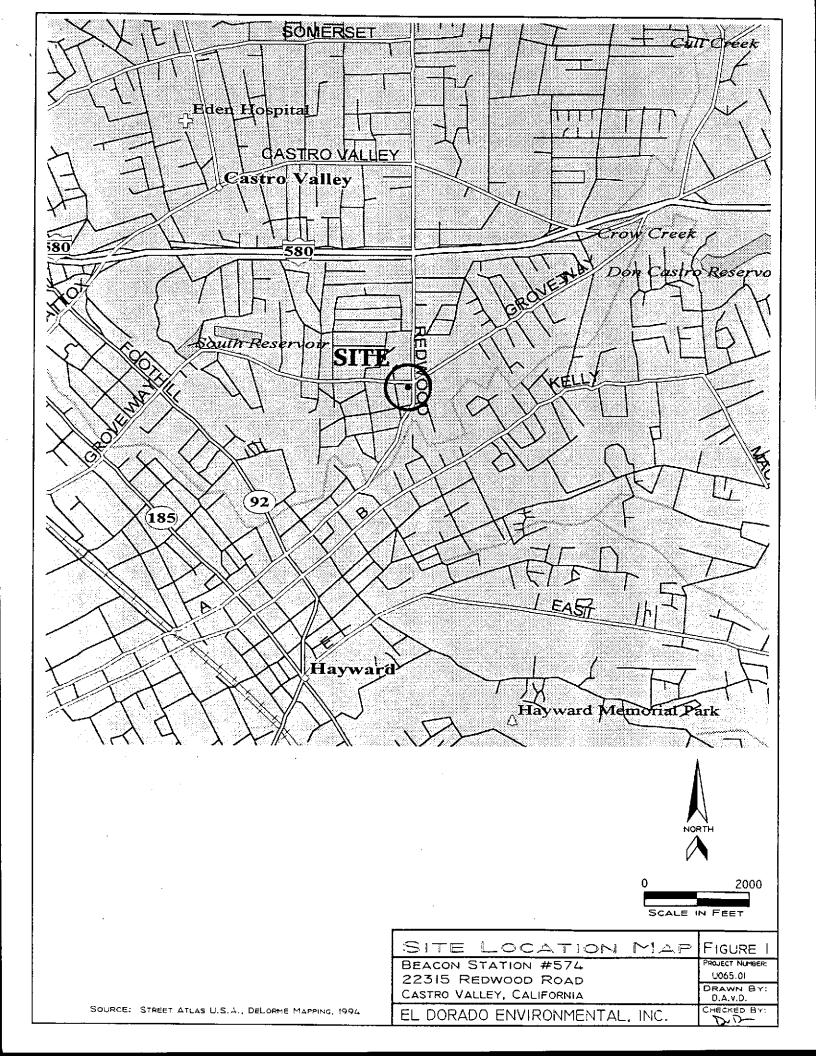
Hydrogeologist

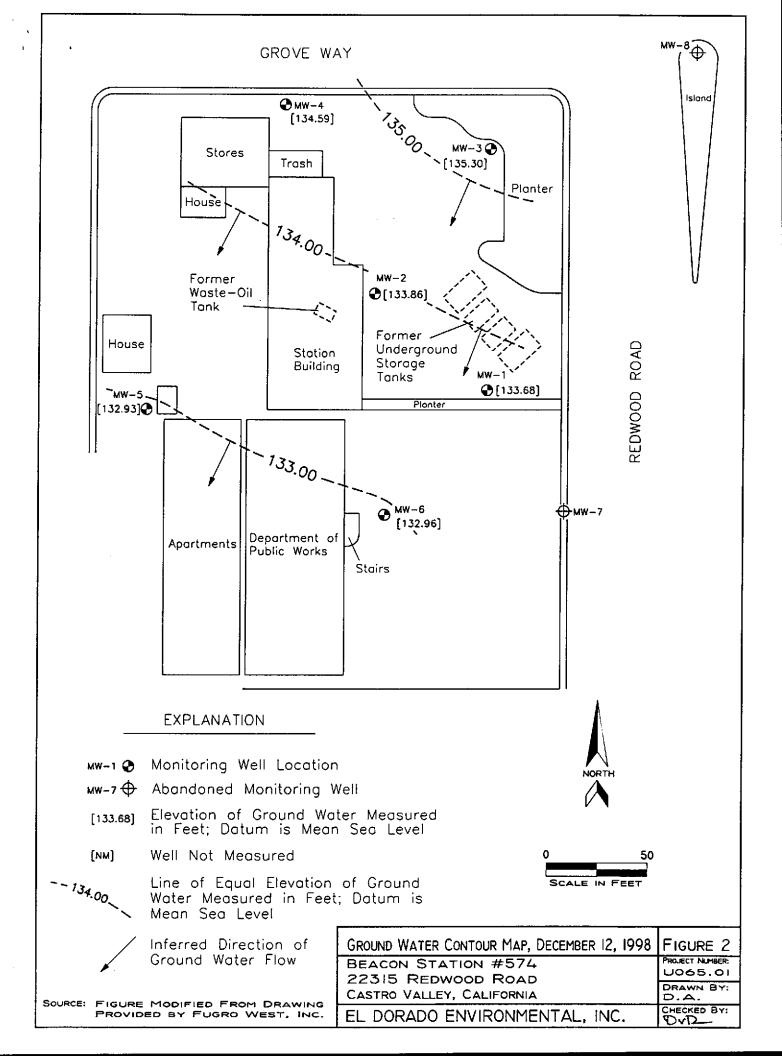
DAvD/davd

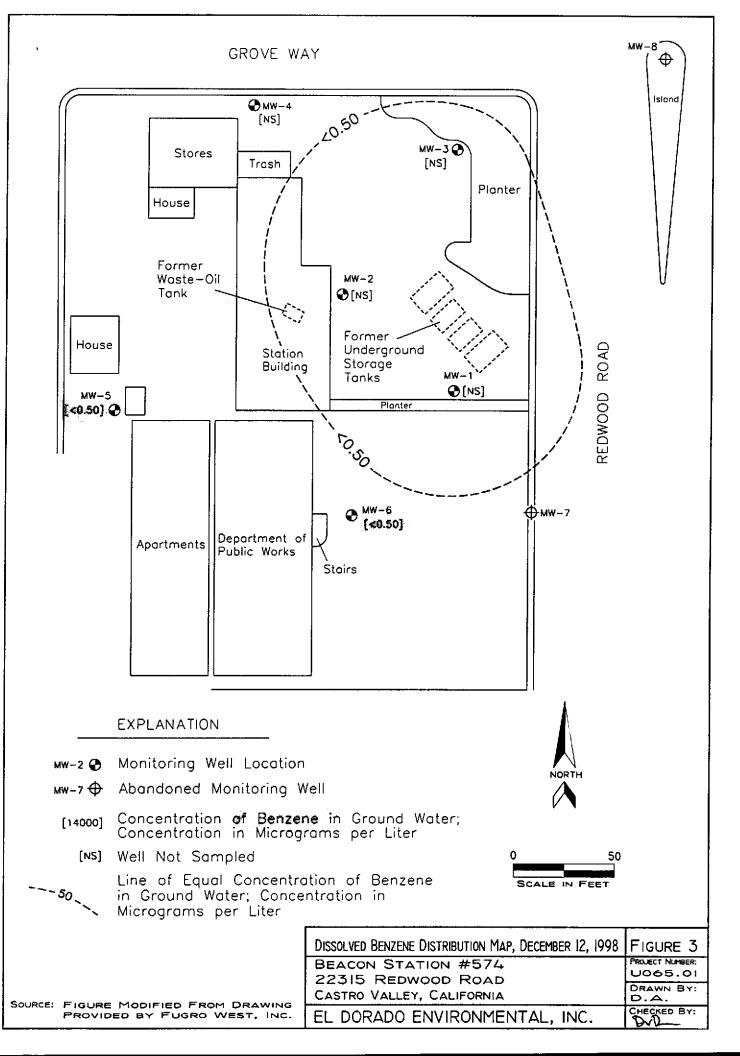
Attachments



FIGURES:	FIGURE 1 SITE LOCATION MAP
	FIGURE 2 GROUND WATER CONTOUR MAP DECEMBER 8, 1998
	FIGURE 3 DISSOLVED BENZENE DISTRIBUTION MAP DECEMBER 8, 1998
TABLES:	TABLE 1 GROUND WATER ELEVATION DATA
	TABLE 2 GROUND WATER ANALYTICAL RESULTS
ATTACHMENTS:	A
	B DOULOS ENVIRONMENTAL FIELD DATA SHEETS
	C HISTORICAL GROUND WATER ELEVATION DATA
	D HISTORICAL GROUND WATER ANALYTICAL DATA
	E LABORATORY REPORT AND CHAIN-OF-CUSTODY FORM







(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Ground Water ⁱ	Ground Water Elevation ²	Well Depth	Comments
MW-1	03/27/92	156.55	22.43	134.12		
141 44 - 1	06/04/92	1,0,0,0	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	ļ
	05/07/93		22.58	133.97	29.84	
	05/18/93		22.66	133.89	27.04	
	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	
	09/26/95		23.44	133.11	29.71	
	12/27/95		23.04	133.51	29.72	
	03/26/96		21.39	135.16	29.71	
	06/05/96		22.43	134.12	29.73	
	09/16/96		24.42	132.13	29.74	
	12/02/96		23.14	133.41	29.75	
	03/10/97		22.30	134.25	29.76	
	06/12/97		22.97	133.58	29.76	
	09/29/97		23.35	133.20	29.78	
	12/01/97		22.73	133,82	29.79	
	03/19/98		20.56	135,99	29.78	
	05/28/98		21.78	134.77	29.76	
	08/31/98		22.64	133.91	29.78	
	12/08/98		22.87	133.68	29.76	

NOTES:

Measurement and reference elevation taken from notch/mark on top north side of well casing. Elevation referenced to mean sea level.

Measurement from top of casing to bottom of well.

Well not measured on this date.

(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Ground Water ¹	Ground Water Elevation ²	Well Depth	Comments
MW-2	03/27/92	155.17	20.82	134.35		
"""-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	•	21.85	133.32	29.70	
	11/05/93		22.32	132.85	29.70	
l i	03/01/94		21.19	133.98	29.68	İ
	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	į	21.04	134.13	29.54	
	09/26/95		21.84	133.33	29.53	
	12/27/95		21.44	133.73	29.56	
	03/26/96		19.81	135.36	29.56	
1	06/05/96		20.83	134.34	29.59	
İ	09/16/96		21.93	133.24	29.58	
	12/02/96		21.54	133.63	29.58	
	03/10/97		20.71	134.46	29.58	
	06/12/97		21.41	133.76	29.52	
	09/29/97		21.26	133.91	29.51	
	12/01/97		20.97	134.20	29.50	
	03/19/98		18.98	136.19	29.51	
	05/28/98		20.22	134.95	29.50	
	08/31/98		21.09	134.08	29.51	
	12/08/98		21.31	133.86	29.50	

NOTES:

Measurement and reference elevation taken from notch/mark on top north side of well casing. Elevation referenced to mean sea level.

Measurement from top of casing to bottom of well.

Well not measured on this date.

2 Well Depth

(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Ground Water ¹	Ground Water Elevation ²	Well Depth	Comments
MW-3	03/27/92 06/04/92 09/23/92 11/12/92 02/02/93 05/07/93 05/18/93 11/05/93 03/01/94 06/02/94 09/09/94 12/20/94 03/08/95 06/14/95 09/26/95 12/27/95 03/26/96 06/05/96 09/16/96 12/02/96 03/10/97 06/12/97 09/29/97 12/01/97 03/19/98 05/28/98	157.13	21.46 22.34 22.84 23.04 21.03 21.59 21.73 22.31 22.85 21.97 22.29 22.91 22.11 21.40 21.80 22.38 22.07 20.73 21.54 22.37 22.35 21.44 21.97 22.30 21.78 19.88 20.91	135.67 134.79 134.29 134.09 136.10 135.54 135.40 134.82 134.28 135.16 134.84 134.22 135.02 135.73 135.33 134.75 135.36 136.40 135.59 134.76 134.78 135.69 135.16 134.83 135.16	29.55 29.45 29.53 29.41 29.41 29.55 29.56 29.56 29.56 29.54 29.38 29.36 29.37 29.37 29.38 29.40 29.43 29.45 29.45 29.45 29.45 29.46 29.46 29.47	
MW-4	08/31/98 12/08/98 05/18/93 08/11/93 11/05/93 03/01/94 06/02/94 09/09/94 12/20/94 03/08/95 06/14/95 09/26/95 12/27/95 03/26/96 06/05/96 09/16/96 12/02/96 03/10/97 06/12/97 09/29/97 12/01/97 03/19/98 05/28/98 08/31/98 12/08/98	151.96	21.61 21.83 17.55 17.50 15.84 17.35 17.68 18.19 17.52 16.82 17.22 17.79 17.47 16.32 17.10 17.85 17.59 16.79 17.49 18.33 17.36 15.90 16.34 16.83 17.37	135.52 135.30 134.41 134.46 136.12 134.61 134.28 133.77 134.44 135.14 134.74 134.17 134.49 135.64 134.86 134.11 134.37 135.17 134.47 133.63 134.60 136.06 135.62 135.13 134.59	29.47 29.47 29.47 28.43 28.43 28.11 28.12 28.13 28.10 27.97 27.97 27.91 27.89 27.89 27.88 27.89 27.88 27.89 27.90 27.91 27.90 27.91 27.90 27.90 27.90 27.90 27.90 27.90 27.90 27.90 27.90	

NOTES:

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

2 Well Depth

Measurement from top of casing to bottom of well.

Well not measured on this date.

(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Ground Water ⁱ	Ground Water Elevation ²	Well Depth	Comments
MW-5	05/18/93	148.68	15.72	132.96		
10144-2	08/11/93	140.00	16.42	132.26	25.43	
	11/05/93		16.92	131.76	25.43	
	03/01/94		15.54	133.14	25.00	
1	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	
	09/26/95		16.46	132.22	24.81	
	12/27/95		15,91	132.77	24.80	
	03/26/96		14.31	134.37	24.81	
[06/05/96		15.43	133.25	24.75	
	09/16/96		16.52	132,16	24.74	
	12/02/96		16.05	132.63	24.76	
	03/10/97		14.80	133.88	24.74	
	06/12/97		15.95	132.78	24.75	
	09/29/97 12/01/97		16.33 15.48	132.35 133.20	24.76 24.78	
1	03/19/98		13.16	135.52	24.78	
	05/28/98		14.04	134.64	24.78	
	08/31/98		14.81	133.87	24.79	
	12/08/98		15.75	132.93	24.76	
MW-6	05/18/93	153.96	20.80	133.16		
171.11-0	08/11/93	155.70	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	
l	09/26/95		21.62	132.34	29.66	
	12/27/95		21.12	132.84	29.63	
	03/26/96		19.50	134.46	29.60	
	06/05/96		20.56	133.40	29.63	
	09/16/96		21.70	132.26	29.65	
	12/02/96		21.25	132.71	29.66	
	03/10/97		20.16	133.80	29.64	
	06/12/97 09/29/97		21.16 21.51	132.80 132.45	29.62 29.62	
]	12/01/97		20.89	132.43	29.61	
	03/19/98		18.71	135.25	29.60	
	05/28/98	•	19.99	133.97	29.62	
	08/31/98		20.81	133.15	29.63	
	12/08/98		21.00	132.96	29.64	

NOTES:

Measurement and reference elevation taken from notch/mark on top north side of well casing. Elevation referenced to mean sea level.

Measurement from top of casing to boltom of well.

Well not measured on this date.

2 Well Depth

(Measurements in feet)

Monitoring Well	Date	Reference Elevation (top of casing) ¹	Depth to Ground Water ¹	Ground Water Elevation ²	Well Depth	Comments
MW-7	05/18/93 08/11/93 11/05/93 03/01/94 06/02/94 09/09/94 12/20/94 03/08/95 06/14/95 09/26/95 12/27/95 03/26/96 06/05/96 09/16/96 12/02/96 03/10/97 06/12/97 09/29/97 12/01/97 03/19/98 05/28/98 08/31/98 12/08/98³	156.09	22.64 23.25 23.93 22.72 23.22 23.90 22.98 22.14 22.61 23.43 23.01 21.32 22.37 23.51 23.08 21.94 22.96 23.35 22.68 20.52 21.76 22.66	133.45 132.84 132.16 133.37 132.87 132.19 133.11 133.95 133.48 132.66 133.08 134.77 133.72 132.58 133.01 134.15 133.13 132.74 133.41 135.57 134.33 133.43	30.75 30.75 30.11 30.12 30.10 29.91 29.90 29.90 29.87 29.91 29.90 29.87 29.91 29.90 29.87 29.91 29.90 29.88 29.88 29.88 29.88 29.88 29.88	
MW-8	05/18/93 08/11/93 11/05/93 03/01/94 06/02/94 09/09/94 12/20/94 03/08/95 06/14/95 09/26/95 12/27/95 03/26/96 06/05/96 09/16/96 12/02/96 03/10/97 06/12/97 09/29/97 12/01/97 03/19/98 05/28/98 08/31/98 12/08/98 ³	158.04	21.55 22.43 23.00 22.05 22.29 22.99 22.14 21.25 21.70 22.29 21.96 20.48 21.50 22.38 22.39 20.89 21.80 22.81 21.70 19.35 20.52 21.40	136.49 135.61 135.04 135.99 135.75 135.05 135.90 136.79 136.34 135.75 136.08 137.56 136.54 135.65 137.16 136.65 137.16 136.24 135.23 136.34 138.69 137.52 136.64	34.82 34.82 34.04 34.04 33.98 34.48 34.49 34.40 34.43 34.42 34.41 34.43 34.42 34.41 34.42 34.41 34.42 34.41 34.42	

NOTES:

Measurement and reference elevation taken from notch/mark on top north side of well casing. Elevation referenced to mean sea level. Measurement from top of casing to bottom of welf. Welf abandoned.

Well Depth

(All results in micrograms per Liter)

Monitoring Well	Date Collected	,			Arom	atic Volatile Org	anics		
		Gasoline	Diesel	Motor Oil	мтве'	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
	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
İ	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
1	09/09/94	4,300	NA	NA		740	290	200	630
1	12/20/94	3,900	NA	NA		550	260	150	510
	03/08/95	8,100	NA	NA		1,100	540	250	1,100
i	06/14/95	NS	NS	NS		NS	NS	NS	NS
1	09/26/95	8,600	NA	NA		2,100	550	420	1,300
1	12/27/95	NS	NS	NS		NS	NS	NS	NS
I	03/26/96	21,000	NA	NA		7,000	2,700	590	7,000
	06/05/96	NS	NS	NS		NS	NS	NS	NS
	09/16/96	13,000	NA	NA	1,400	3,200	770	4~0	2,900
İ	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS
ļ	03/10/97	30,000	NA	NA	1,100	7,300	1,900	850	7,100
į	06/12/97	NS	NS	NS	NS	NS	NS	NS	NS
	09/29/97	25,000	NA	NA	840	5,500	920	920	4,000
l	12/01/97	NS	NS	NS	NS	NS	NS	NS	NS
l	03/19/98	90,000	NA	NA	<1,500	15,000	7,000	3.300	20,000
	05/28/98	NS	NS	NS	NS	NS	NS	NS	NS
ŀ	08/31/98	50,000	NA	NA	890	9,900	1,500	2,100	9,400
l	12/08/98	NS	NS	NS	NS	NS	NS	NS	NS

NOTES:

Below indicated detection limit.

NS Not sampled. Not analyzed.

ΝA

Product is not typical gasoline.

TABLE 2 GROUND WATER ANALYTICAL RESULTS **BEACON STATION #574**

22315 REDWOOD ROAD, CASTRO VALLEY, CALIFORNIA

(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Pe	troleum Hydr	ocarbons		Aron	iatic Volatile Org	ranics	
		Gasoline	Diesel	Motor Oil	MTBE'	Benzene	Toluene	Ethyl- benzene	Total Xylenes
MW-2	03/27/92 06/04/92 09/23/92 11/12/92 02/02/93 05/07/93 08/11/93 11/05/93 03/01/94 06/02/94 09/09/94 12/20/94 03/08/95 06/14/95 09/26/95 12/27/95 03/26/96 06/05/96 09/16/96 12/02/96 03/10/97 06/12/97 09/29/97 12/01/97 03/19/98 08/31/98 12/08/98	18,000 14,000 22,000 29,000 29,000 24,000 19,000 23,000 13,000 12,000 13,000 16,000 NS 18,000 NS 18,000 NS 33,000 NS 33,000 NS 30,000 NS 23,000 NS 23,000 NS 29,000 NS	<50 <5,000 NA NA NA NA NA NA NA NA NA NA NA NA NA	<50 NA NA NA NA NA NA NA NA NA NA NA NA NA	940 NS 1,400 NS 1,400 NS <1,500 NS 890 NS	2,400 1,900 2,100 2,400 2,700 1,800 2,300 3,100 1,500 2,000 1,800 2,300 2,200 NS 2,500 NS 4,200 NS 4,200 NS 4,200 NS 4,900 NS 4,900 NS 4,900 NS	2,300 1,700 1,500 860 1,900 1,300 1,500 2,900 490 790 660 1,000 NS 1,000 NS 1,000 NS 2,600 NS 490 NS 870 NS 870 NS 880 NS 9,500 NS 1,600 NS	8-0 580 760 540 540 540 550 860 350 440 650 550 NS 7-0 NS 1,000 NS 560 NS 650 NS 650 NS 650 NS 650 NS	3,300 2,300 2,900 3,500 2,600 2,600 2,300 3,700 1,000 1,900 2,100 NS 2,700 NS 2,700 NS 2,000 NS 3,000 NS 3,800 NS 3,800 NS 3,900 NS
MW-3	03/27/92 06/04/92 09/23/92 11/12/92 02/02/93 05/07/93 08/11/93 11/05/93 03/01/94 06/02/94 09/09/94 12/20/94 03/08/95 06/14/95 09/26/95 12/27/95 03/26/96 06/05/96 09/16/96 12/02/96 03/10/97 06/12/97 09/29/97 12/01/97 03/19/98 05/28/98 08/31/98 12/08/98	160 120 220 230 86 140 490 820 410 440 620 770 300 NS 130 NS 130 NS <50 NS 170 NS 44 NS 740 NS <50 NS 740 NS 320 NS		<50 NA	<5.0 NS <5.0 NS <5.0 NS <5.0 NS NS	9.2 7.5 8.3 12 2.4 2.6 15 45 7.4 13 12 24 6.1 NS 4.8 NS <0.50 NS 10 NS 10 NS 2.3 NS 61 NS 61 NS 61 NS	4.8 2.7 4.3 5.5 0.71 1.2 8.1 24 2.7 4.9 4.8 11 0.97 NS 1.6 NS <0.50 NS 2.9 NS 2.9 NS <0.50 NS 9.8 NS <0.50 NS	10 05 67 77 31 44 51 51 47 48 48 48 48 48 48 48 48 48 48 48 48 48	23 15 19 19 6.2 8.4 37 93 10 31 20 36 7.5 NS 9.4 NS <0.50 NS 15 NS 2.6 NS 61 NS <0.50 NS 9.3 NS

NOTES:

NS NΑ

Below indicated detection limit.
 Not sampled.
 Not analyzed.
 Product is not typical gasoline.

(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Pe	troleum Hydr	ocarbons		Arom	atic Volatile Org	anics	
		Gasoline	Diesel	Motor Oil	мтве'	Benzene	Toluene	Ethyl- benzene	Total Xylenes
MW-4	05/18/93	<50	NA	NA		<0.5	<0.5	<□.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		NS	NS	NS	NS
	06/14/95	NS	NS	NS		NS	NS	NS	NS
	09/26/95	NS	NS	NS		NS	NS	NS	NS
	12/27/95	NS	NS	NS		NS	NS	NS	NS
	03/26/96	NS	NS	NS		NS	NS	NS	NS
	06/05/96	NS	NS	NS		NS	NS	NS	NS
	09/16/96	<50	NA	NA	<5.0	<0.50	<0.50	<0.50	<0.50
[12/02/96	NS	NS	NS	NS	NS	NS	NS.	NS .
	03/10/97	NS	NS	NS	NS	NS	NS	NS NS	NS
	06/12/97	NS	NS	NS NS	NS	NS	NS NS	NS NS	NS
	09/29/97	NS	NS	NS	NS NS	NS	NS	NS	NS
	12/01/97	NS	NS	NS	NS	NS	NS	NS NS	NS
	03/19/98	NS NS	NS NS	NS NS	NS	NS	NS NS	NS No	NS NS
	05/28/98	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
	08/31/98 12/08/98	NS	NS	NS	NS NS	NS NS	NS NS	NS	NS
100.5	05410100	-00		***			-0.0		-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
j l	03/01/94	<50	NA NA	NA NA		<0.5	<0.5	<0.5	<0.5
	06/02/94 09/09/94	<50 <50	NA NA	NA NA		<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
	12/20/94	<50	NA NA	NA NA		<0.5	<0.5 <0.5	<0.5	<0.5
	03/08/95	<50	NA NA	NA NA		<0.5 <0.5	<0.5	<0.5	<0.5
	06/14/95	<50	NA NA	NA NA		<0.5	<0.5	<1:5	<0.5
	09/26/95	<50	NA	NA NA		<0.50	<0.50	<0.50	<0.50
	12/27/95	<50	NA	NA.		<0.50	<0.50	<0.50	<0.50
	03/26/96	<50	NA	NA		<0.50	<0.50	<0.50	<0.50
]	06/05/96	<50	NA	NA	15	< 0.50	< 0.50	<0.50	<0.50
<u> </u>	09/16/96	<50	NA	NA	20	< 0.50	< 0.50	<0.50	< 0.50
ļ	12/02/96	<50	NA	NA	12	< 0.50	<0.50	<0.50	<0.50
ļ l	03/10/97	<50	NA .	NA	7.0	< 0.50	<0.50	<0.50	<0.50
	06/12/97	<50	NA	NA	7.2	<0.50	<0.50	<0.50	<0.50
	09/29/97	<50	NA	NA	<5.0	< 0.50	<0.50	<0.50	<0.50
	12/01/97	<50	NA	NA	<5.0	<0.50	<0.50	<(+50	<0.50
	03/19/98	<50	NA	NA	<5.0	< 0.50	<0.50	<0.50	<0.50
	05/28/98	<50	NA	NA	<5.0	< 0.50	<0.50	<(+50	<0.50
	08/31/98	<50	NA	NA	<0.50	<0.50	<0.50	< 0.50	<0.50
	12/08/98	<50	NA	NA	<5.0	<0.50	< 0.50	<0.50	<0.50

NOTES:

= Below indicated detection limit.

NS = Not sampled.
NA = Not analyzed.
Product is not typical gasoline.

(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Pe	troleum Hydr	ocarbons		Arom	atic Volatile Org	anics	
		Gasoline	Diesel	Motor Oil	мтве	Benzene	Toluene	Ethyl- benzene	Total Xylenes
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
	06/14/95	220*	NA	NA		<0.5	<0.5	<0.5	<0.5
	09/26/95	110*	NA	NA		< 0.50	<0.50	<0.50	< 0.50
	12/27/95	130*	NA	NA		<0.50	<0.50	<0.50	< 0.50
	03/26/96	100*	NA	NA		<0.50	< 0.50	<0.50	< 0.50
	06/05/96	100*	NA	NA	430	< 0.50	<0.50	<0.50	<0.50
	09/16/96	170	NA	NA	430	<0.50	<0.50	<0.50	<0.50
	12/02/96	160	NA	NA	160	< 0.50	<0.50	<0.50	<0.50
	03/10/97	140	NA	NA	390	< 0.50	<0.50	<0.50	<0.50
	06/12/97	<50	NA	NA	330	<0.50	<0.50	<0.50	<0.50
	09/29/97	<50	NA	NA	130	<0.50	<0.50	<0.50	< 0.50
	12/01/97	<50	NA	NA	200	<0.50	<0.50	<0.50	<0.50
+	03/19/98	<50	NA	NA	240	<0.50	<0.50	<0.50	<0.50
ı	05/28/98	<50	NA	NA	290	<0.50	<0.50	<0.50	<0.50
	08/31/98	<50	NA	NA	290	<0.50	<0.50	<0.50	<0.50
	12/08/98	<50	NA	NA	230	<0.50	<0.50	<0.50	<0.50
MW-7	05/18/93	<50	NA	NA		<0.5	<0.5	<∪.5	<0.5
191.44-1	08/11/93	<50	NA	NA		<0.5	<0.5	<0.5	<0.5
•	11/05/93	<50	NA	NA		<0.5	<0.5	<∪.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
	06/14/95	<50	NA	NA		< 0.5	<0.5	<0.5	<0.5
	09/26/95	<50	NA	NA		< 0.50	<0.50	<0.50	<0.50
	12/27/95	<50	NA	NA		< 0.50	<0.50	<0.50	< 0.50
	03/26/96	<50	NA	NA		<0.50	<0.50	<0.50	<0.50
	06/05/96	<50	NA	NA	20	<0.50	<0.50	<0.50	< 0.50
	09/16/96	<50	NA	NA	26	<0.50	< 0.50	<0.50	<0.50
	12/02/96	140	NA	NA	140	<0.50	<0.50	<0.50	<0.50
	03/10/97	<50	NA	NA	29	<0.50	<0.50	<0.50	<0.50
	06/12/97	<50	NA	NA	28	<0.50	<0.50	<0.50	<0.50
,	09/29/97	<50	NA	NA	27	<0.50	< 0.50	<0.50	<0.50
	12/01/97	<50	NA	NA	29	<0.50	<0.50	<0.50	<0.50
	03/19/98	<50	NA	NA	6.0	< 0.50	<0.50	<0.50	< 0.50
ļ	05/28/98	<50	NA	NA	25	<0.50	<0.50	<0.50	< 0.50
	08/31/98	<50	NA	NA	20	<0.50	<0.50	<0.50	<0.50
	12/08/982					İ]	l	1

NOTES:

Selow indicated detection limit.
 NS = Not sampled.
 NO analyzed.
 Product is not typical gasoline.
 Well abandoned.

(All results in micrograms per Liter)

Monitoring Well	Date Collected	Total Pe	troleum Hydr	ocarbons	Aromatic Volatile Organics					
		Gasoline	Diesel	Motor Oil	MTBE ¹	Benzene	Toluene	Ethyl- benzene	Total Xylenes	
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	<(1,5	<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	
	06/14/95	NS	NS	NS		NS	NS	NS	NS	
	09/26/95	NS	NS	NS		NS	NS	NS	NS	
	12/27/95	NS	NS	NS		NS	NS	NS	NS	
	03/26/96	NS	NS	NS		NS	NS	NS	NS	
	06/05/96	NS	NS	NS		NS	NS	NS	NS	
	09/16/96	<50	NA	NA	<5.0	< 0.50	< 0.50	<0.50	<0.50	
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS	
	03/10/97	NS	NS	NS I	NS	NS	NS	NS	NS	
	06/12/97	NS	NS	NS	NS	NS	NS	NS	NS.	
	09/29/97	NS	NS	NS	NS	NS	NS	NS	NS	
]	12/01/97	NS	NS	NS	NS	NS	NS	NS	NS	
	03/19/98	NS	NS	NS	NS	NS	NS	NS	NS	
	05/28/98	NS	NS	NS	NS	NS	NS	NS	NS	
	08/31/98	NS	NS	NS	NS	NS	NS	NS	NS	
	12/08/982									

NOTES:

Below indicated detection limit. Not sampled,

< NS

NA 1 2

Not analyzed.
Product is not typical gasoline.
Well abandoned.

ATTACHMENT A ULTRAMAR FIELD PROCEDURES

ATTACHMENT A - ULTRAMAR FIELD PROCEDURES

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

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 of the purge water are monitored. The well is considered to be sufficiently purged when: The four casing volumes have been removed; the temperature, pH, and conductivity values 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 or pumped 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 depth to water 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 depth to water 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 well 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 the purging process, a final free product thickness measurement will be taken and a ground water sample will not be collected.

Ground water samples are stored in 40-milliliter vials so that air passage through the sample is minimized (to prevent volatilization of the sample). The vial is tilted and filled slowly until an upward convex meniscus forms over the mouth of the vial. The TeflonTM 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. The Chain-of-Custody form is completed to ensure sample integrity. Ground water samples are transported to a state-certified laboratory and analyzed within the U.S. Environmental Protection Agency-specified hold times for the specified analytes.

ATTACHMENT B DOULOS ENVIRONMENTAL FIELD DATA SHEETS

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

Project Address:	Beacon #574, 22315 Redwood Rd.	Date: 12-8-98
	Castro Valley, CA	Project No.: 94-574-01

Recorded by: <u>Hal Hansen</u>

Well	. No	Time	Well Elev.	Depth to Gr. Water	Measured Total Depth	Gr. Water Elevation		Product Thickness	Comments
		10:20		92.87	29.76				letaleun oder ny when
MW	-2	10:18		21.31	29.50				let aleun dor no shen
				21.83	29.47				Petraleum dos no effer
MW.	-5	10:04		15.75	24-76	•			no oda no sheen
		10:11		21.00	29.64				no odor no sher
mu	-4	10:08		17.37	27.91				no oda no shen no oda no shen no solo no show
ļ								,	nardo no alo
		· ·							
		<u> </u>							
					,		·		

Notes:

	Client:	Ultramar			Sampling Date:_	12-8-98	
	Site:_	Beacon #	574			: 94-574-01	
	_	22315 Rec	wood Road	We	ell Designation	: <u>MW- 5</u>	
		Castro Va					
Is to Is we Heigh Well (12" B Genera	p of cas ll cap s	ing cut lesealed and l casing repe: 8" UV 12" DWPtion of we	locked? locked? riser (in i 12" CN llhead ass	nches): 2" UV	NO (ES) NO YES 12" EMCO 6" CNI O' xcellent (600)	If no, see in If	remarks
	-3 -4E		2" PVC b	ailer	lerSi Do Co	edicated bail	ler
٤	Sampled '				Teflon baile		rm b
					6" 8'		
Initia Time: Depth Depth	l Measur 10:04 of well to water	ltiplier: rement : 24.76 r: 15.75	Rec Time:_/ Depth to	harge Mea: 0:30 water:_/	1.47 2 surement 6.91 Calcula 6.91 Act	e.61 gal/ft nted purge:_6 cual purge:_6	8
	Time	Temp.	E.C.	рН	Turbidity	Volume	
	10:12	61.0	1540	7.38			
	10:23	58.11	1410	7.34		2	
	10:24	58.6	1384	7.30		3	
	10:25	58.9	1371	7.26		Y	
		<u>.</u>					
	ample ap	pearance:	<u>Clei</u>	v-	Lock:	delphin	
	ent renl	aced: (Ch	eck all th				
2" L 4" L	ocking C	ap:		x #3753: Dolphin:	Pinned Allen	Allenhead:_ 9/16 Bolt:_ head (DWP):_	
2" L 4" L	ocking C ocking C ocking C	ap:			· · · · · · · · · · · · · · · · · · ·	9/16 Bolt:_	

ı	Client:	Ultramar			Sampling Date	e: 12-8-	97					
	Site:_	Beacon #5	574		Project No.: 94-574-01							
	_	22315 Red	lwood Road	We	ell Designat:	ion: <u>MW-</u>	6					
			illey, CA				·					
Is the Is top Is well to Well of 12" BK General	ere star of cas il cap s of wel cover ty	tion of we	in well hevel? locked? iser (in in in in in in in in in in in in in i	nches): 2" UV	NO YES NO	If no, If no, Other Sood Fair Submersib	Below TOC see remarks see remarks BK Poor					
			2" PVC b	ailer ailer		Dedicated Centrifuga	bailer					
S	ampled	with: Dis			Teflon ba							
					6"							
Initia Time: Depth	l Measu 0:/ of well	ltiplier: rement : 99.64 r: 41.00	Rec	harge Mea	1.47 <u>surement</u> <u>7.7./0</u>	•	_					
Start	purge:_	10:40	Sam	pling tim	e: <i>10:50</i>		,					
	Time	Temp.	E.C.	рН	Turbidit	y Volum	ie					
	10:41	59-1	1453	7-34		- 1						
	10:42	59-8	1446	7 34		2						
	10:43	60-1	1398	7.28		3						
	10:44	60.4	1390	7.26		4						
S	ample ap	ppearance:	160	-W	Lock:	politi	un					
2" Lo 4" Lo	ocking (ocking (Laced: (Ch Cap: Cap:	_ Lock-I	at apply) (#3753: oolphin:		tion of rep /32 Allenhe 9/16 Bo lenhead (DW	ad: lt:					
Remai	rks: _											
Signatu	ıre:	Wald	7				·					

ATTACHMENT C HISTORICAL GROUND WATER ELEVATION DATA

TABLE 2
WATER LEVEL DATA
(measurements in feet)

Wolling W.	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
j	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 11-12-92		22.84	134.29
	02-02-93		23.03	134.09
	05-18-93		21.03	136.10
			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

ATTACHMENT D HISTORICAL GROUND WATER ANALYTICAL DATA

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

Tonicing	Ditto	and any factors of the	Coleum Hyd	17.100	Aromatis Vinatila Organica							
-Well -	Callected	1						Total				
		Casoline	Die	Mount Oil	- Berzone -	Toluene 4-	Eltylbanzene .	∴ Xylen				
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	<100	-	270	57	230	440				
	09-23-92	3,400	•	•	480	430	110	550				
	11-12-92	2,700	-	•	5.B	<5.0	140	340				
	02-02-93	8,500		-	760	770	250	1,200				
	05-07-93	7,700	•	•	970	ଣଃ	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	- 1	•	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				
E-WM	04-01-91	3,100	<100	-	41	91	37	420				
	03-27-92	150	<50	<50	9_2	4.8	10	23				
	06-04-92	120	<50	-	7.5	2.7	0.5	15				
	09-23-92	220	-	-	5.3 ` [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	6.3				
	05-07-93	140	•]	• •	2,6	1.2	3.9	8.4				
MW-4	05-18-93	<50	-	•	<0,50	<0.50	<0.56	<0.5				
W.S	05-18-93	<50	•	•	<0.50	<0.50	< 0.50	<0.:				
MW-6	05-18-93	170	•	•	. <0.50	<0.50	< 0.50	<0				
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	<0.3				

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

ATTACHMENT E

LABORATORY REPORT AND CHAIN-OF-CUSTODY FORM



Report Number: 12914

Date: 01/06/99

Dale van Dam El Dorado Environmental 2221 Goldorado Trail El Dorado, CA 95623

Subject: 2 Water Samples Project Name: Beacon 574 Project Number: 94-574-01

Dear Mr. van Dam,

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

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Report Number: 12914

Date: 01/06/99

Subject :

2 Water Samples

Project Name :

Beacon 574

Project Number :

94-574-01

Case Narrative

The quantitation of TPH as Gasoline for sample MW-6 does not include the compound Methyl-t-butyl ether.

Approved By: Joe Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800

Report Number: 12914

Date: 01/06/99

Project Name: Beacon 574
Project Number: 94-574-01

Sample: MW-5

Matrix: Water

Sample Date :12/08/98

Sample Date : 12/00/90		Method			
Parameter	Measured Value	Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8020	12/22/98
Toluene	< 0.50	0.50	ug/L	EPA 8020	12/22/98
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8020	12/22/98
Total Xylenes	< 0.50	0.50	ug/L	EPA 8020	12/22/98
Methyl-t-butyl ether	< 5.0	5.0	ug/L	EPA 8020	12/22/98
TPH as Gasoline	< 50	50	ug/L	M EPA 8015	12/22/98
aaa-Trifluorotoluene (8020 Surrogate)	110		% Recovery	EPA 8020	12/22/98
aaa-Trifluorotoluene (Gasoline Surrogate)	90.0		% Recovery	M EPA 8015	12/22/98

Sample: MW-6

Matrix: Water

Sample Date :12/08/98

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8020	12/22/98
Toluene	< 0.50	0.50	ug/L	EPA 8020	12/22/98
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8020	12/22/98
Total Xylenes	< 0.50	0.50	ug/L	EPA 8020	12/22/98
Methyi-t-butyl ether	230	5.0	ug/L	EPA 8020	12/22/98
TPH as Gasoline	< 50	50	ug/L	M EPA 8015	12/22/98
aaa-Trifluorotoluene (8020 Surrogate)	109		% Recovery	EPA 8020	12/22/98
aaa-Trifluorotoluene (Gasoline Surrogate)	92.1		% Recovery	M EPA 8015	12/22/98

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800



Ultramar Inc.CHAIN OF CUSTODY REPORT

BEACON

12914

Beacon Station No.	Sampler (Print	•							/ , D	ate	Form No).
574	Hal to Sampler (Sign	1) 1915	? 0		$\top^{\mathbf{A}}$	NAL	SES	┰┤	100	8-98	//	
574 Project No.	Sampler (Sign	ature)		7						R.F.	1	1
94.574-01	Ital's	Kan							<u>ရ</u>	7A7	odan	1)
Project Location					[a				Containers	////		
94.574-01 Project Location Castra Vally	Affiliation	2 En	u						-	•		
Sample No./Identification	Date	Tir		BTEX TPH (assoline)	臣				ō O Z	REMA	RKS	
MW5	12-8-98	103	-01	XH					2			
MW-6	12-8-98	1050	-02	44	<				2			
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Relinquished by: (Signature/Affiliation)	Date	Time	 Received by: (Signatur	 re/Affi	<u> </u> liati	l on)	11.			· · · · · · · · · · · · · · · · · · ·	Date	Time
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Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signatur	re/Affi	liati	on)					Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signatur	4		-					Date 2/4/cm	Time
Report To: Dale van Dan	<u> </u>	L	Bill to ULTRAMAF 525 West T Hanford, CA Attention:	TINC hird S	Stree	et	w	d	ride	ie		1540