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

November 30, 1990

Mr. Steven Ritchie
San Francisco Bay Region
Regional Water Quality Control Board
1800 Harrison Street, Suite 700
Oakland, CA 94612

SUBJECT:

QUARTERLY GROUND-WATER SAMPLING REPORT FOR BEACON STATION NO.

720, 1088 MARINA BLVD., SAN LEANDRO, CALIFORNIA

Dear Mr. Ritchie:

Enclosed is a copy of the third quarter Ground-Water Sampling Report for the above-referenced site prepared by Du Pont Environmental Remediation Services.

Please call if you have any questions regarding the information included in this report.

Sincerely,

ULTRAMAR INC.

Terrence A. Fox

Environmental Specialist II

Tenence S. Fx

Enclosure:

Ground-Water Sampling Report, Third Quarter 1990

cc w/encl:

Mr. Rafat A. Shahid

Chief Hazardous Materials Division Alameda County Health Care Services

470 27th Street, Third Floor

Oakland, CA 94612



GROUND-WATER SAMPLING REPORT THIRD QUARTER 1990 BEACON STATION 720 1088 MARINA BOULEVARD SAN LEANDRO, CALIFORNIA

FOR

ULTRAMAR INC. 525 WEST THIRD STREET HANFORD, CALIFORNIA 93232

PREPARED BY

DU PONT ENVIRONMENTAL REMEDIATION SERVICES 7068 KOLL CENTER PARKWAY, SUITE 401 PLEASANTON, CALIFORNIA 94566

OCTOBER 24, 1990

JOB NO. 90-Q13-153

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DU PONT ENVIRONMENTAL REMEDIATION SERVICES 7068 Koll Center Parkway, Suite 401 Pleasanton, CA 94566

(415) 462-7772

Fax: (415) 462-7944

Ultramar Inc. 525 West Third Street

Hanford, California 93232

ATTENTION: Mr. Terrence A. Fox

Environmental Specialist II

SUBJECT:

Quarterly Ground-Water Sampling Report

Third Quarter 1990 Beacon Station 720 1088 Marina Boulevard San Leandro, California

Dear Mr. Fox:

INTRODUCTION

This report presents the results of the quarterly ground-water sampling which was conducted at Beacon Station 720 located at 1088 Marina Boulevard, San Leandro, California (see the Location Map, Figure 1), on September 15, 1990. The purpose of this sampling program is to monitor and evaluate the extent of hydrocarbon contamination in the ground water at the subject property.

SUMMARY

A summary of data regarding ground-water levels for the third quarter of 1990 is presented in Table A. In general, ground-water levels have dropped approximately 0.4 foot since the last quarterly sampling. The ground-water gradient for this quarter is directed towards the sample at a magnitude of approximately 0.0018 foot per foot (see the Ground-Water Gradient Map, Figure 2). Chemical analytical results indicate concentrations of petroleum hydrocarbons continue to be maximum in the area of MW-4 and MW-5 since last quarter (see Table B and Appendix A). Figure 3 presents interpretive isopleths of benzene concentrations within the ground water for the site. This site is scheduled for fourth quarter sampling December 1990.

Have a safe day,

DU PONT ENVIRONMENTAL REMEDIATION SERVICES

James A. Lehrman

Project Geologist

David J. Blunt

Registered Geologist, RG 4516

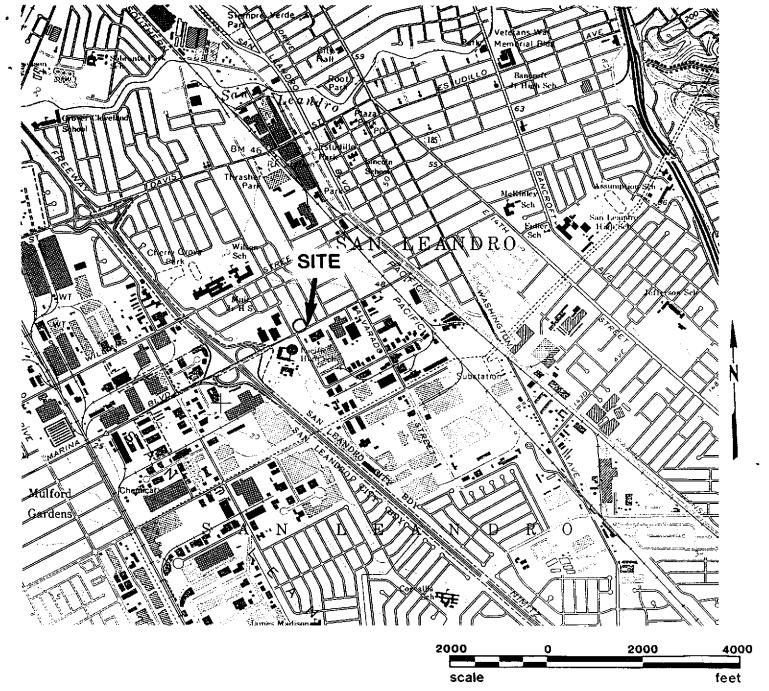
Robert A. Katin, PE, REA

October 24, 1990

Job No. 90-O13-153

Project Manager

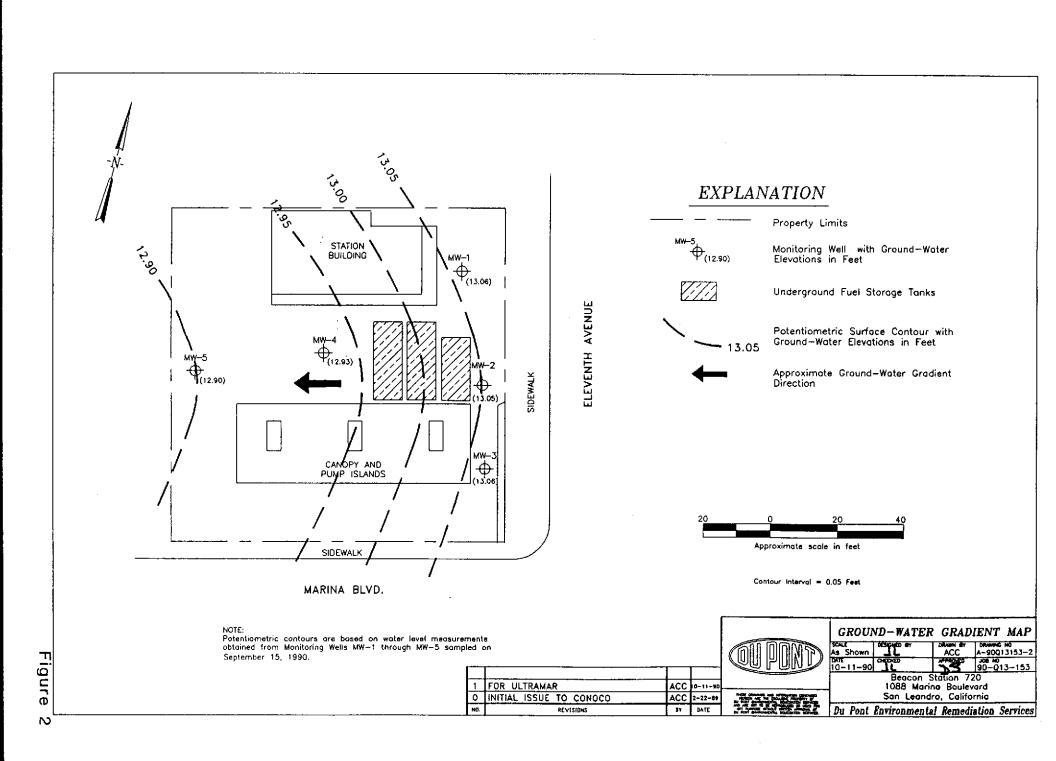
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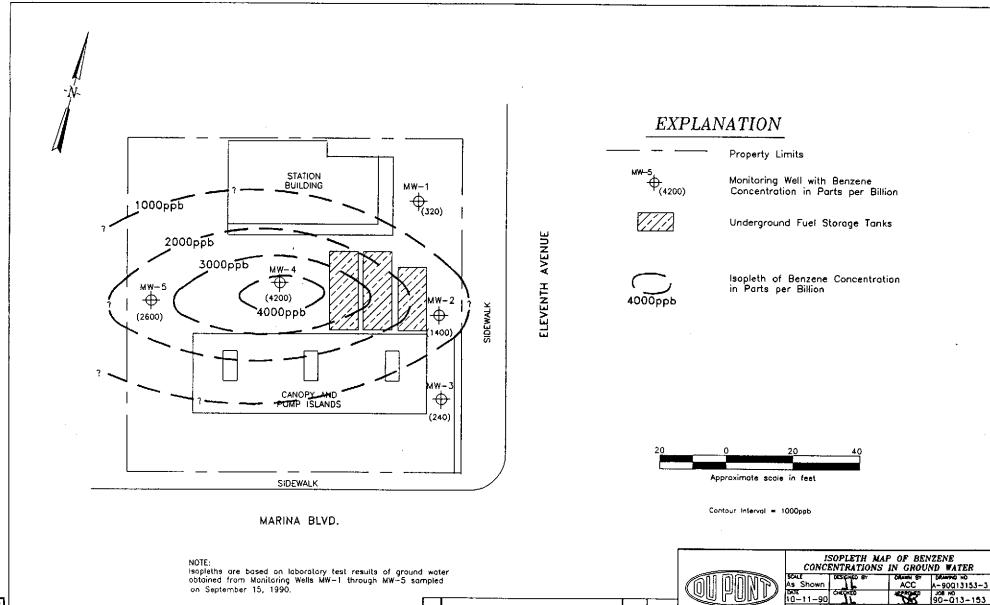


LOCATION MAP

Beacon Station 720 1088 Marina Boulevard San Leandro, California

BASE: A portion of the San Leandro USGS 7.5 minute quadrangle dated 1959 (photorevised 1980), at a scale of 1:24,000.





FOR ULTRAMAR

INITIAL ISSUE TO CONOCO

REVISIONS

ACC 10-11-90

ACC 2-22-89

BY DATE

Beacon Station 720 1088 Marina Boulevard

San Leandro, California

Du Pont Environmental Remediation Services

TABLE A
GROUND-WATER POTENTIOMETRIC ELEVATIONS

	Beacon Station 720 1088 Marina Boulevard San Leandro, California							
WELL ID	DATE SAMPLED	TOP OF CASING ELEVATION (feet)	DEPTH TO GROUND WATER (feet)	GROUND- WATER ELEVATION (feet)	GROUND-WATER ELEVATION CHANGE (feet)			
MW-1	23-Jun-87 06-Jul-87 06-Aug-87 04-Nov-87 02-Feb-88 02-May-88 21-Nov-88 14-Feb-89 02-May-89 10-Aug-89 08-Nov-89 20-Feb-90 18-May-90 15-Sep-90	29.89	14.79 14.93 14.22 15.74 13.99 14.99 13.03 15.86 14.77 16.35 16.46 15.58 16.40 16.83	15.10 14.96 15.67 14.15 15.90 14.90 16.86 14.03 15.12 13.54 13.43 14.31 13.49 13.06	-0.14 0.71 -1.52 1.75 -1.00 1.96 -2.83 1.09 -1.58 -0.11 0.88 -0.82 -0.43			
MW-2	23-Jun-87 06-Jul-87 06-Aug-87 04-Nov-87 02-Feb-88 02-May-88 21-Nov-88 14-Feb-89 02-May-89 10-Aug-89 08-Nov-89 20-Feb-90 18-May-90 15-Sep-90	29.57	14.51 14.63 14.95 15.45 13.74 14.63 12.99 15.66 14.56 16.22 16.19 15.34 16.20 16.52	15.06 14.94 14.62 14.12 15.83 14.94 16.58 13.91 15.01 13.35 13.38 14.23 13.37 13.05	-0.12 -0.32 -0.50 1.71 -0.89 1.64 -2.67 1.10 -1.66 0.03 0.85 -0.86 -0.32			
MW-3	23-Jun-87 06-Jul-87 06-Aug-87 04-Nov-87 02-Feb-88 02-May-88 21-Nov-88 14-Feb-89 02-May-89 10-Aug-89 08-Nov-89 20-Feb-90 18-May-90 15-Sep-90	29.13	14.13 14.24 14.52 15.09 13.37 14.22 13.01 15.22 14.16 15.61 15.75 14.95 15.79 16.07	15.00 14.89 14.61 14.04 15.76 14.91 16.12 13.91 14.97 13.52 13.38 14.18 13.34 13.06	-0.11 -0.28 -0.57 1.72 -0.85 1.21 -2.21 1.06 -1.45 -0.14 0.80 -0.84 -0.28			

TABLE A
GROUND-WATER POTENTIOMETRIC ELEVATIONS

	Beacon Station 720 1088 Marina Boulevard San Leandro, California								
WELL ID	DATE SAMPLED	TOP OF CASING ELEVATION (feet)	DEPTH TO GROUND WATER (feet)	GROUND- WATER ELEVATION (feet)	GROUND-WATER ELEVATION CHANGE (feet)				
MW-4	23-Jun-87 06-Jul-87 06-Aug-87 04-Nov-87 02-Feb-88 02-May-88 21-Nov-88 14-Feb-89 02-May-89 10-Aug-89 08-Nov-89 20-Feb-90	29.72	14.77 14.91 15.19 15.72 14.03 14.89 12.88 15.83 14.75 16.30 16.29 15.62	14.95 14.81 14.53 14.00 15.69 14.83 16.84 13.89 14.97 13.42 13.43 14.10	14.95 -0.14 -0.28 -0.53 1.69 -0.86 2.01 -2.95 1.08 -1.55 0.01 0.67				
	18-May-90	ý.	16.34 16.79	13.38 12.93	-0.72 -0.45				
MW-5	23-Jun-87 06-Jul-87 06-Aug-87 04-Nov-87 02-Feb-88 02-May-88 21-Nov-88 14-Feb-89 02-May-89 10-Aug-89 08-Nov-89 20-Feb-90 18-May-90	29.55	14.63 14.79 15.07 15.61 13.84 14.77 12.84 15.72 14.68 16.03 16.33 15.44 16.22 16.65	14.92 14.76 14.48 13.94 15.71 14.78 16.71 13.83 14.87 13.52 13.22 14.11 13.33 12.90	-0.16 -0.28 -0.54 1.77 -0.93 1.93 -2.88 1.04 -1.35 -0.30 0.89 -0.78 -0.43				

NOTES:

¹⁾ All elevations surveyed to an arbitrary datum.

²⁾ Elevations and depths are given in feet.

TABLE B
SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

Beacon Station 720 1088 Marina Boulevard San Leandro, California									
ETHYL									
WELL.	DATE	BENZENE	BENZENE	TOLUENE	XYLENES	TPHg	COMMENTS		
ID	SAMPLED	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)			
	10.4								
MW-1	16-Apr-87 23-Jun-87	2,313	664.1	3,770	3,331	17,276			
	25-Jul-87	1,887 778.2	466.7	2,141	1,652	26,027			
	06-Aug-87	1,270	133.2 288.7	943.7 1,576	422.1 873.7	3,938			
	04-Nov-87	1,700	720	4,000	2,200	6,079 15,000			
	02-Feb-88	1,500	230	1,700	740	14,000			
	02-May-88	3,500	4,900	700	2,700	33,000			
	21-Nov-88	2,200	2,800	560	2,200	15,000			
	14-Feb-89	1,700	340	1,700	1,500	12,000	Odor		
	02-May-89	1,500	510	2,400	2,400	18,000	Odor, Slight Sheer		
	10-Aug-89	1,400	360	1,500	1,600	10,000	Odor		
	08-Nov-89	920	190	470	360	7,200	Odor		
	20-Feb-90	810	270	540	800	3,300			
	18-May-90	1,900	560	500	1,600	5,600			
1	307- (\$600-90	320	150	110	520	5,200			
<u>.</u>									
MW-2	16-Apr-87	3,131	1,067	4,239	4,608	17,920			
	23-Jun-87 06-Jul-87	2,188	1,047	2,622	4,699	49,354			
	06-Aug-87	1,575 2,623	457	1,729	1,702	8,676			
	04-Nov-87	2,200	702 900	3,722 4,100	2,882 3,500	14,376			
	02-Feb-88	6,200	1,000	6,500	4,000	19,000 54,000			
	02-May-88	6,800	7,100	1,300	5,400	53,000			
	21-Nov-88						Free Product		
	14-Feb-89	6,900	1,100	4,300	5,200	48,000	Film of Free Produc		
	02-May-89	6,100	2,100	8,800	16,000	110,000	Odor, Sheen		
	10-Aug-89	4,200	1,000	2,900	5,800	39,000	Odor, Sheen		
	08-Nov-89	3,700	740	1,500	2,200	45,000	Odor, Heavy Sheer		
	20-Feb-90	5,000	1,600	8,200	11,000	60,000	Odor, meary emeer		
	18-May-90	6,200	1,300	1,900	610	19,000			
	15-900-90	1,400	660	820	3,000	27,000			
		1,700		020	3,000	27,000	t in the second		
E-WN	16-Apr-87	1,371	472.3	2,438	2,617	9,967			
	23-Jun-87	646.2	320.9	822.9	1,280	16,824			
	06-Jul-87 06-Aug-87	340.3 441.9	116.5	384.2	420.2	3,395			
	06-Aug-87	320	118.2 74	436.3 280	417.3 250	3,107			
	02-Feb-88	2,200	500	2,300	2,300	2,600 44,000			
	02-May-88	1,600	840	450	1,700	14,000			
	21-Nov-88	1,200	560	220	810	8,100			
	14-Feb-89	1,500	220	220	500	5,500	Odor		
	02-May-89	910	530	310	1,900	13,000	Odor		
1	10-Aug-89	750	190	10	210	2,700	Odor Odor		
	08-Nov-89	370	90	ND(20)	58	2,400	Odor		
· ·	20-Feb-90	1,200	810	77	460	3,700	Juli		
·	18-May-90	980	330	ND(50)	250	2,300	•		
	45-1840-00	240	150	36	230	4,700			
	Mary Company		,50	30	200	7,700			

TABLE B

(continued)

SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

Beaco	n Station 7	20
	2000-000-000-000-00-00-00-00-00-00-00-00	w.paranagaran
Turr Ma	rina Boule	vard
San Lea	ndro Calife	amia:

San Leanuro, Camornia ETHYL									
WELL	DATE	BENZENE	BENZENE	TOLUENE	XYLENES	TPHg	COMMENTS		
ID.	SAMPLED	(ug/L)	(ug/L)	(ug/L)			COMMENTS		
		(4,3,12)	(nMc)	(ugr.)	(ug/L)	(Ug/L)			
MW-4	16 Apr 07	5 000	200.0	0.70-					
14144-4	16-Apr-87 23-Jun-87	5,896 4,030	893.9	3,797	4,106	19,309			
	06-Jul-87	2,710	850.0 308.2	1,842 1,247	3,254	31,429			
	06-Aug-87	3,992	447.9	1,589	1,312 1,611	8,117			
	04-Nov-87	9,500	2,800	17,000	11,000	10,464 55,000	•		
	02-Feb-88	11,000	1,400	7,400	6,200	47,000			
	02-May-88	9,200	6,100	1,300	6,400	58,000			
	21-Nov-88	5,700	3,100	1,600	7,600	48,000			
	14-Feb-89	8,700	900	2,500	3,800	29,000	Odor & Sheen		
	02-May-89	4,800	1,800	5,600	8,800	69,000	Odor, Slight Sheer		
	10-Aug-89	15,000	1,800	6,600	12,000	67,000	Odor, Slight Sheer		
	08-Nov-89	11,000	1,100	3,200	4,400	71,000	Odor, Slight Sheer		
	20-Feb-90	8,100	930	4,500	3,500	19,000	Oddr, Ongin Oncer		
	18-May-90	45,000	5,000	12,000	27,000	100,000			
	18-Suo-90	4,200	740	1,200	3,000	38,000			
		TAMES	740	1,200	3,000	30,000			
MW-5	16-Apr-87	2,267	921.2	3,277	4,536	17,733			
	23-Jun-87	2,239	516.8	953.9	1,587	19,555			
	06-Jul-87	1,335	313.7	799.2	923.9	5,631			
	06-Aug-87	1,890	576.8	881.2	93.4	6,450			
	04-Nov-87 02-Feb-88	1,300	270	500	640	4,600			
	02-May-88	3,100 4,400	550 1,200	1,500	1,400	24,000			
	21-Nov-88	5,600	870	490 590	1,500 2,200	17,000 19,000			
	14-Feb-89	4,300	410	810	1,300	13,000	Odor		
	02-May-89	2,900	690	1,500	3,200	24,000			
	10-Aug-89	6,700	860				Odor, Slight Sheer		
i	1	· · ·	1	2,300	4,700	36,000	Odor, Slight Sheer		
	08-Nov-89	5,300	460	860	600	30,000	Odor		
	20-Feb-90	1,700	120	220	370	3,400			
-	18-May-90	18,000	1,500	2,000	5,600	24,000	Charles (In Control of		
	15-3ep-90	2,600	1,000	2,200	4,900	42,000	A State of the second		

NOTES: 1) TPHg = Total Petroleum Hydrocarbons (as gasoline).
2) Odor refers to petroleum hydrocarbon odor.
3) All results are presented in parts per billion.

⁴⁾ Samples prior to February 1989 taken by Groundwater Technology, Inc.

APPENDIX A

GROUND-WATER SAMPLING PROCEDURES, LABORATORY TEST RESULTS, AND CHAIN-OF-CUSTODY FORMS

GROUND-WATER MONITORING AND SAMPLING PROCEDURES

Prior to sampling, the depth to water was measured in all monitoring wells using an electronic immersion probe. All measurements were read to the nearest 0.01 foot. If free product was present, the depth to free product and the depth to water were measured using an interface probe and an observation sample was collected with a clear teflon bailer for confirmation. No analytical samples were collected from monitoring wells containing more than 0.25 inch of free product.

The monitoring wells were sampled on September 15, 1990. Prior to purging, each well was checked with a clear teflon bailer in order to observe the possible presence of floating hydrocarbons. Purging was accomplished using a stainless steel or teflon bailer. The bailer was thoroughly cleaned prior to each sampling using a trisodium phosphate (TSP) solution followed by a 10% methyl alcohol solution, and then rinsed twice with potable water. The wells were purged prior to sampling until pH, conductivity, and temperature values stabilized. Generally, this resulted in the removal of approximately 3 to 5 well volumes of ground water from each well during the purging process. The water obtained from purging was placed in labeled 55-gallon drums and stored on-site. The bailer rope was replaced after each sampling. Samples recovered from each well were decanted into two appropriately prepared and labeled 40-ml volatile organic analysis (VOA) bottles. A travel blank (numbered as MW-A) and a duplicate sample from MW-5 were also submitted for quality assurance. One travel blank per site will be analyzed. Duplicate samples will only be analyzed by the laboratory when directed by Du Pont Environmental Remediation Services. The sample bottles were immediately placed in an ice chest and maintained at 4 °C until delivery to a State of California licensed laboratory. Routine chain-of-custody procedures were employed.

APPLIED ANALYTICAL

Environmental Laboratories

42501 Albrae St., Suite 100 Fremont, CA 94538 Bus: (415) 623-0775 Fax: (415) 651-8647

ANALYSIS REPORT

1020lab.frm Attention: Mr. S. Pierce Date Sampled: 09-15-90 **DuPont Environmental Remediation** Date Received: 09-17-90 7068 Koll Center Parkway #401 BTEX Analyzed: 09-20-90 Pleasanton, CA 94566 TPHg Analyzed: 09-20-90 Project: 90-Q13-153, 19505-L TPHd Analyzed: NR Matrix: Water

Detection Limit:	Benzene ppb 5.0	Toluene ppb 5.0	Ethyl- benzene <u>ppb</u> 5.0	Total Xylenes <u>ppb</u> 5.0	TPHg <u>ppb</u> 200	TPHd <u>ppb</u> 100
SAMPLE Laboratory Identificat	ion		•			
MW-1 W1009153	320	110	150	520	5200	NR
MW-4 W1009156	4200	1200	740	3000	38000	NR
MW-5 W1009157	2600	2200	1000	4900	42000	NR

ppb = parts per billion = μ g/L = micrograms per liter.

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not requested.

ANALYTICAL PROCEDURES

BTEX- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.

TPHg-Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.

TPHd-Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

Laboratory Representative

September 25, 1990

Date Reported

APPLIED ANALYTICAL

Environmental Laboratories

42501 Albrae St., Suite 100 Fremont, CA 94538 Bus: (415) 623-0775 Fax: (415) 651-8647

ANALYSIS REPORT

1020lab.frm Attention: Mr. S. Pierce Date Sampled: 09-15-90 **DuPont Environmental Remediation** Date Received: 09-17-90 7068 Koll Center Parkway #401 BTEX Analyzed: 09-20-90 Pleasanton, CA 94566 TPHg Analyzed: 09-20-90

Project: 90-Q13-153, 19505-L TPHd Analyzed: NR Matrix: Water

Detection Limit:	Benzene ppb 0.5	Toluene ppb 0.5	Ethyl- benzene ppb 0.5	Total Xylenes ppb 0.5	TPHg <u>ppb</u> 20	TPHd <u>ppb</u> 100
SAMPLE Laboratory Identificat	ion					
MW-3 W1009155	240	36	150	230	4700	NR
MW-A W1009158	ND	ND	ND	ND	ND	NR

ppb = parts per billion = μ g/L = micrograms per liter.

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.

NR = Analysis not requested.

ANALYTICAL PROCEDURES

BTEX- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.

TPHg-Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.

TPHd-Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

September 25, 1990 Date Reported

Laboratory Representative

APPLIED ANALYTICAL LABORATORY IS CERTIFIED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES AS A HAZARDOUS WASTE TESTING LABORATORY (Certification No. 153)

APPLIED ANALYTICAL

Environmental Laboratories

42501 Albrae St., Suite 100 Fremont, CA 94538 Bus: (415) 623-0775 Fax: (415) 651-8647

ANALYSIS REPORT

1020lab.frm Attention: Mr. S. Pierce Date Sampled: 09-15-90 **DuPont Environmental Remediation** Date Received: 09-17-90 7068 Koll Center Parkway #401 BTEX Analyzed: 09-20-90 Pleasanton, CA 94566 TPHg Analyzed: 09-20-90 Project: 90-Q13-153, 19505-L TPHd Analyzed: NR Matrix: Water Ethyl-Total Benzene Toluene benzene **Xylenes TPHg TPHd** <u>ppb</u> <u>ppb</u> <u>ppb</u> <u>ppb</u> <u>ppb</u> <u>ppb</u> **Detection Limit:** 10.0 10.0 10.0 10.0 400 100

SAMPLE Laboratory Identification

MW-2 W1009154

1400

820

660

3000

27000

NR

NR = Analysis not requested.

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020/602, which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID) and a flame-ionization detector (FID) in series.

TPHg-Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by analysis using modified EPA Method 8015, which utilizes a GC equipped with an FID.

TPHd-Total petroleum hydrocarbons as diesel (high boiling points) are measured by extraction using EPA Method 3550 for soils and EPA Method 3510 for water, followed by modified EPA Method 8015 with direct sample injection into a GC equipped with an FID.

Laboratory Representative

September 25, 1990

Date Reported

ppb = parts per billion = $\mu g/L$ = micrograms per liter.

ND = Not detected. Compound(s) may be present at concentrations below the detection limit.



Unramar

Ultramar inc.CHAIN OF CUSTODY REPORT

Beacon Station No.	Sampler (P	rint Name)			ì					Pate 9/15/90	Form N	p. /
720	Bil	1 Bas	sett	•	Н	\neg'	ANAL T	YSES	_	1/13/40	of /	·
Project No.	Sampler (Si	gnature),	1		1			e .		1 41 1 -	TAT	
90-Q13-153	Sampler (Si	el Ew	M						1	Normal Preserved Stored in w	ן אלן יינו	101
Project Location	Affiliation	. ~		-1 1	1		5			Freserved	ו אדועו	701 Luoi
San Leandro	Du Poi	at ba	/IVONY	iental		(gas	B B			3 Stored in W	etice a	776
Sample No./Identification	Date	Ti	ime	Lab No.	втех	E F			100 C		KS	
MW-1	9/15/90				ᅵᅥ					2		
MW-2			-		V	4			(2		
MW-3					4	4				2		
MW-4					4	7			5	2	<u>. 4 8 8 </u>	
MW-5					i	4				2		
MW-A Duplicate	1		-		4	4			2	2		-
Duplicate	V				2	7			6	2		
Relinquished by: (Signature/Affiliation) Duel Dawith Du Pont Guvi	ron, Date	Time 10:00 AM	<u> </u>	ed by: (Signature				pple	ēd	Analytical	Date 9/17/90	Time to'po
Relinquished by: (Signature/Affiliation)	Date	Time	Receiv	ed by: (Signature	e/Af	filia	tion)			7.7.	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Receiv	ed by: (Signature	e/Af	lilia	tion)		······································		Date	Time
Report To: Du Pout Environmental Remedia +>	on Service	<u> </u>	Bill to:	ULTRAMAR 525 West Th Hanford, CA Attention:	ird (Stre	eet Hev	an D)e W	1broff		

Du Pont Environmental Remediation Services

GROUND-WATER MONITORING WELL FIELD SAMPLING DATA SHEET

SITE: San Leandro

JOB# 90-013-153

DATE:

9-15-90

C

WELL #	17W-1
CASING DIAMETER	2"
DEPTH TO WATER	16.83
TOTAL DEPTH	28.01
WELL VOLUME	1.94 Gal.
PURGE METHOD	hand bail

WELL#	MW-2
CASING DIAMETER	2"
DEPTH TO WATER	16.52
TOTAL DEPTH	25.8'
WELL VOLUME	1.61 Gal
PURGE METHOD	hand bail

GALLONS PURGED	pН	Conduc- tivity	Temp.
	6.72	546	21.5
2	6.55	658	20.3
3	6.49	670	20.1
4	6.47	673	19-9
5	6.47	669	19-9

GALLONS PURGED	pН	Conduc- tivity	Temp.
エ	6.41	851	20.5
2	6.42	821	20.0
3	6-43	843	19.9
4	6.43	807	19.9
		·	

WELL# MW-3 CASING DIAMETER DEPTH TO WATER 16.07 TOTAL DEPTH 24.7 WELL VOLUME 1.50 Gal PURGE METHOD hand bail

WELL #	MW-4
CASING DIAMETER	2"
DEPTH TO WATER	16.79
TOTAL DEPTH	29.1'
WELL VOLUME	2.14601
PURGE METHOD	hand bail

GALLONS PURGED	pН	Conduc- tivity	Temp.
エ	6.72	546	21.5
2	6.55	658	20.3
3	6.49	670	20.1
4	6.47	673	19.9
5	6.47	669	19.9

рH	tivity	Тетр.
6.39	370	20.4
6.40	966	19.9
6.44	979	19.8
6.45	982	19-8
·		
		·
	6.40	6.40 966

Sampled by: B. Bessett

Du Pont Environmental Remediation Services

GROUND-WATER MONITORING WELL FIELD SAMPLING DATA SHEET

200	SITE: Jay	Leane		JOB# 90-(213-153	DATE:	9-15-	90
	CACINIC	WELL # DIAMETER	MW-5			WELL#		
	OFPTH T	O WATER	14.45	-/		DIAMETER	,	-
	TOT	AL DEPTH	27.91			TO WATER TAL DEPTH		-
		- VOLUME	1.966	- /	4	L VOLUME		<u>.</u>
	PURGE	METHOD	hand be	i (PURG	E METHOD		_
	GALLONS		Conduc-	Temp.	GALLONS			3 8000 - 1 000000000000000000000000000000000000
	PURGED	pН	tivity	i Cilip.	PURGED	рH	Conduc- tivity	Temp.
	工	6.41	631	20.4				
	૨	6.39	8/6	19.8				
	3	6.38	939	19.7			·	
	4	6.38	817	19.7				
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******					L		I	
	CACINO S	WELL#			L	WELL#		
	CASING D	IAMETER			1	DIAMETER		
	DEPTH T	NAMETER O WATER			DEPTH	DIAMETER TO WATER		
	DEPTH TOTA	IAMETER			DEPTH 1	DIAMETER O WATER AL DEPTH		
	DEPTH TOTA TOTA WELL	NAMETER O WATER AL DEPTH			DEPTH 1 TOT WELI	DIAMETER TO WATER		
	DEPTH T TOT/ WELL PURGE	O WATER AL DEPTH VOLUME METHOD	.Conduc-	Temo	DEPTH 1 TOT WELI PURGE	DIAMETER TO WATER AL DEPTH L VOLUME E METHOD	Candua	
	DEPTH TOTA TOTA WELL	O WATER AL DEPTH VOLUME METHOD	Conduc- tivity	Temp:	DEPTH 1 TOT WELI	DIAMETER TO WATER AL DEPTH L VOLUME E METHOD	Conduc-	Temp.
	DEPTH TOTAL WELL PURGE	O WATER O WATER AL DEPTH VOLUME METHOD		Temp.	DEPTH 1 TOT WELL PURGE	DIAMETER TO WATER AL DEPTH L VOLUME E METHOD		Temp
	DEPTH TOTAL WELL PURGE	O WATER O WATER AL DEPTH VOLUME METHOD		Temp.	DEPTH 1 TOT WELL PURGE	DIAMETER TO WATER AL DEPTH L VOLUME E METHOD		Temp.
	DEPTH TOTAL WELL PURGE	O WATER O WATER AL DEPTH VOLUME METHOD		Temp.	DEPTH 1 TOT WELL PURGE	DIAMETER TO WATER AL DEPTH L VOLUME E METHOD		Temp.
	DEPTH TOTAL WELL PURGE	O WATER O WATER AL DEPTH VOLUME METHOD		Temp.	DEPTH 1 TOT WELL PURGE	DIAMETER TO WATER AL DEPTH L VOLUME E METHOD		Temp
	DEPTH TOTAL WELL PURGE	O WATER O WATER AL DEPTH VOLUME METHOD		Temp:	DEPTH 1 TOT WELL PURGE	DIAMETER TO WATER AL DEPTH L VOLUME E METHOD		Temp
	DEPTH TOTAL WELL PURGE	O WATER O WATER AL DEPTH VOLUME METHOD		Temp:	DEPTH 1 TOT WELL PURGE	DIAMETER TO WATER AL DEPTH L VOLUME E METHOD		Temp
	DEPTH TOTAL WELL PURGE	O WATER O WATER AL DEPTH VOLUME METHOD		Temp:	DEPTH 1 TOT WELL PURGE	DIAMETER TO WATER AL DEPTH L VOLUME E METHOD		Temp
	DEPTH TOTAL WELL PURGE	O WATER O WATER AL DEPTH VOLUME METHOD		Temp.	DEPTH 1 TOT WELL PURGE	DIAMETER TO WATER AL DEPTH L VOLUME E METHOD		Temp.

Sampled by: B. Bessett