EXON COMPANY, U.S.A.

POS OFFICE BOX 4032 ● CONCORD, CA 94524-2032

ENVIRONMENTAL ENGINEERING

G. D. GIBSON SENIOR ENVIRONMENTAL ENGINEER

March 4, 1991

Exxon RAS 7-0104 1725 Park Street Alameda, California

Ms. Katherine Chesick Alameda County Health Agency Division of Hazardous Materials 80 Swan Way, Suite 200 Oakland, California 94621

Dear Ms. Chesick:

Per our meeting on February 26, attached for your review and comment is the letter report on Groundwater Monitoring Results, Fourth Quarter 1990 for the above referenced Exxon Company, U.S.A. facility in the City of Alameda. This report, by Harding Lawson Associates of Novato, California, presents the results of the groundwater sampling event performed in December, 1990.

Detectable levels of dissolved hydrocarbons continue to be detected in all wells at this site. A workplan for the installation of an interim remediation system will be submitted by April 15. Additionally, further investigation into the extent of soil and groundwater impact will continue. Should you have any questions or concerns after your review, please contact me at (415) 246-8768. Thank you.

Allicel Ely

Gary D. Gibson

41 MAR -5 AM 11: 07

GDG:hs 0256E Attachment

c - w/attachment:

Mr. L. Feldman - San Francisco Bay Region Water Quality Control Board

w/o attachment:

Mr. D. J. Bertoch

Mr. P. J. Brininstool

Ms. J. E. Folger

Mr. J. R. Hastings

Ms. S. M. Watson - Harding Lawson Associates

EXON COMPANY, U.S.A.

POST OFFICE BOX 4032 - CONCORD, CA. 94524-2032 - (415) 246-8700

90 MAY 25 PM 12: 40

MARKETING DEPARTMENT

ENVIRONMENTAL ENGINEERING

G. D. GIBSON SENIOR ENVIRONMENTAL ENGINEER

May 18, 1990

Various Exxon Sites Alameda County, California

Alameda County Environmental Health Department 80 Swan Way, Suite 200 Oakland, California 94621

Dear Sirs:

Please find the attached certifications of Red Jacket line leak detector tests which were performed at the Exxon Company, U.S.A. facilities in your area of authority. These leak detector tests are being performed annually in compliance with the California Underground Storage Tank Regulations. Also attached is the 3 page test procedure which was followed by the contractors performing these tests.

Should you have any questions after your review, please contact me at (415) 246-8768. Thank you.

Sincerely,

Gary D. Gibson

GDG:vv 1126E/1145E Attachments

c - w/o attachment:

Ms. S. K. Halsted

Mr. J. R. Hastings

Mr. L. W. Lindeen

Mr. M. Thomson - Alameda County District Attorney's Office

Mr. E. E. Villasenor

RAS # 7-8932
Address 1790 Maring Rlud

UBK-14

The leak detectors (piston type and/or diaphram type) were tested on a date between 09/01/89 and 10/30/89 according to the attached testing procedure. Each leak detector either:

1) Passed and was sealed, or

(2) Failed, was replaced, retested, passed and sealed.

Contractor: <u>EA Nemediator</u> tech. inc. Date: <u>11/29/89</u>

> EA/RTI EA BECKER DIVISION P.O. BOX 5058 NAPA, CA 94581



January 25, 1991

4167,326,02

Exxon Company, U.S.A. Post Office Box 4032 Concord, California 94520

Attention:

Mr. Gary D. Gibson

Senior Environmental Engineer

Gentlemen:

Groundwater Monitoring Results, Fourth Quarter 1990 Exxon Station #7-0104 Alameda, California

This letter presents the results of Harding Lawson Associates' (HLA) December 1990 sampling of seven groundwater monitoring wells at Exxon Station #7-0104, 1725 Park Street, Alameda, California (site). The site history and detailed monitoring well sampling procedures are described in HLA report *Phase II Evaluation of Petroleum Hydrocarbons, Exxon Service Station R/S #7-0104, 1725 Park Street, Alameda, California*, dated March 21, 1989. This sampling event was conducted on December 17, 1990, and represents HLA's sixth round of sampling and the third of the current year-long monitoring program.

Groundwater-Level Monitoring and Groundwater Sampling

HLA has obtained monthly groundwater-level and free-phase hydrocarbon measurements from seven onsite monitoring wells since September 1989. All measurements were performed with an electric oil-water interface probe. During monthly groundwater monitoring, the groundwater collected from each well was visually inspected for the presence of free-phase petroleum product using a clear Lucite bailer. No free-phase petroleum product was observed in any of the wells during the course of this investigation.

Prior to groundwater sample collection on December 17, 1990, the seven monitoring wells were purged a minimum of three well volumes. The wells were purged with a PVC bailer or centrifugal pump. The purged water was stored onsite in 55-gallon drums. Measurements of pH, conductivity, and temperature of the purged water were monitored and recorded during purging of the wells. Copies of HLA's Groundwater Sampling Forms documenting sampling activities are attached to this letter.

January 25, 1991 4167,326.02 Exxon Company, U.S.A. Mr. Gary D. Gibson Page 2

Groundwater samples were collected from each of the monitoring wells using a stainless steel bailer and decanted into 40-milliliter volatile organic analysis (VOA) vials. A quality assurance/quality control (QA/QC) field blank water sample was prepared in the field by decanting deionized water into appropriate sample containers. The groundwater samples and QA/QC field blank were labeled, placed in a cooler with blue ice, and transported under chain of custody procedures to NET Pacific Laboratory (NET), Santa Rosa, California. NET is a state-certified hazardous waste laboratory.

To help prevent potential cross-contamination, all water-level measurement and sampling equipment was decontaminated prior to use by steam cleaning.

Laboratory Analyses

The groundwater samples and field blank were analyzed for total petroleum hydrocarbons (TPH) calibrated as gasoline, and for benzene, toluene, ethylbenzene, and xylenes (BTEX). Groundwater analytical results are summarized in Table 1, along with analytical results from HLA's previous groundwater sampling rounds. Copies of laboratory reports from the December 17, 1990, sampling are attached to this letter.

Groundwater Gradient and Flow Direction

Potentiometric surface elevations from the December 1990 groundwater-level survey are presented in Table 2, along with previously measured potentiometric surface elevations. Potentiometric surface elevations at the site have increased slightly over the past three months from the previous measurements. The groundwater table appears to be fluctuating in response to changes in precipitation induced recharge. Plate 1 presents a generalized potentiometric surface map for the site. As shown on Plate 1, the generalized local direction of groundwater flow is toward the east at an approximate gradient of 0.01 ft/ft. This flow direction is consistent with previous potentiometric surface data obtained during this investigation.

Laboratory Analytical Results

Laboratory analytical results from the December sampling indicate that petroleum hydrocarbon constituents were detected in all seven wells onsite. Detected concentrations of TPH as gasoline ranged from 2.1 to 140 milligrams per liter (mg/l). The highest concentrations of petroleum hydrocarbon constituents were detected in groundwater samples collected from Monitoring Wells MW-2, MW-6 and MW-7, located adjacent to and downgradient of the fuel storage and distribution systems. No petroleum hydrocarbons were detected in the field blank submitted to the laboratory for analysis.

January 25, 1991 4167,326.02 Exxon Company, U.S.A. Mr. Gary D. Gibson Page 3

Review of chemical analyses reveals that concentrations of petroleum constituents have increased in monitoring wells MW-1, MW-2, MW-4, MW-5 and MW-7 and have decreased in wells MW-3 and MW-6. The concentration of benzene detected in all monitoring wells at the site exceeds the California State Department of Health Services (DHS) action level of 0.7 microgram per liter (μ g/l). Concentrations of toluene and total xylenes detected in wells MW-2, MW-4, MW-5, MW-6, and MW-7 exceed DHS action levels of 100 and 620 μ g/l, respectively. Ethylbenzene concentrations detected in wells MW-2, MW-6, and MW-7 are in excess of the DHS action level of 680 μ g/l.

HLA plans to continue quarterly sampling and monthly groundwater level monitoring and is currently developing site soil and groundwater remediation programs. The next quarterly sampling event is scheduled for March 1991.

We trust that this is the information Exxon requires at the present time. HLA recommends that copies of this report be submitted to the Regional Water Quality Control Board and the Alameda County Health Department for their review.

Please call us at 415/892-0821 if you have any questions.

Yours very truly,

HARDING LAWSON ASSOCIATES

5 Michelle L'atson

S. Michelle Watson Project Geologist

Michael L. Siembieda

Attachments:

Associate Geologist - RG 4007

SMW/MLS/yml/D15140-H

Table 1 - Summary of Chemical Results of Groundwater Samples

No: 400

Table 2 - Potentiometric Surface Elevations and Product Thickness

Measurements

Plate 1 - Generalized Potentiometric Surface Contour Map,

December 17, 1990

Groundwater Sampling Forms Laboratory Analytical Reports

Table 1. Summary of Chemical Results of Groundwater Samples

Well Number	Date	TPH Gasoline mg/l ¹	Benzene µg/l²	Toluene μg/l	Ethyl- benzene μg/l	Xylenes μg/l	Total Dissolved Solids mg/l
DHS Acti	on Levels		0.7	100	680	620	
MW-1	06/07/88	27	5,000	77	1,100	2,700	NT³
IVI W - I	• •	6.8	2,000	91	800	1,600	NT
	01/17/89 06/01/89	1.7	170	6.9	13	230	NT
	09/18/89	2.1	9.0	53	18	130	NT
	12/11/89	5.8	200	42	290	330	NT
	03/07/90	NT	NT	NT	NT	NT	910
	03/07/90	2.3	430	14	16	220	NT
	06/14/90	32	1,400	19	<5 ⁴	120	NT
	09/19/90	0.95	290	2.9	<0.5	27	NT
	12/17/90	2.1	550	13	350	110	NT
MW-2	06/07/88	110	12,000	12,000	2,100	12,000	NT
1.1.	01/17/89	30	6,600	3,300	1,600	7,700	NT
	06/01/89	8.7	330	280	680	1,200	NT
	09/18/89	17	580	280	570	220	NT
	12/11/89	32	1,000	850	310	1,200	NT
	03/13/90	39	3,500	1,500	2,100	3,900	NT
	06/14/90	34	3,800	730	1,600	3,900	NT
	09/19/90	63	670	180	390	1,000	NT
	12/17/90	140	3,700	2,500	3,000	8,300	NT
MW-3	06/07/88	28	6,000	80	940	1,900	NT
	01/17/89	5.3	2,500	230	590	1,100	NT
	06/01/89	5.4	² 330	300	570	680	NT
	09/18/89	12	680	170	350	860	NT
	12/11/89	14	1,100	150	670	690	NT
	03/13/90	18	6,300	200	1,100	1,100	NT
	06/14/90	9.5	1,300	880	310	1,800	NT
	09/19/90	16	5,000	65	1,500	450	NT
	12/17/90	6.7	1,500	64	650	460	NT

Table 1. Summary of Chemical Results of Groundwater Samples (continued)

Well Number	Date	TPH Gasoline mg/l	Benzene µg/l	Toluene µg/l	Ethyl- benzene μg/l	Xylenes μg/l	Total Dissolved Solids mg/l
DHS Acti	on Levels		0.7	100	680	620	
MW-4	01/17/89	19	1,000	1,500	360	2,200	NT
11111 7	06/01/89	3.6	180	240	63	810	NT
	09/18/89	6.0	290	200	28	510	NT
	12/11/89	13	750	910	510	1,200	NT
	03/07/90	NT	NT	NT	NT	NT	370
	03/13/90	12	1,500	1,500	470	2,800	NT
	06/14/90	12	5,700	400	1,300	760	NT
	09/19/90	5.5	670	180	390	1,000	NT
	12/17/90	14	1,400	620	540	2,100	NT
MW-5	01/17/89	26	8,700	3,900	990	5,900	NT
	06/01/89	5.2	240	220	130	690	NT
	09/18/89	8.0	340	150	140	460	NT
	12/11/89	15	720	320	450	870	NT
	03/13/90	10	3,400	220	280	800	NT
	06/14/90	12	3,300	160	350	730	NT
	09/19/90	8.5	1,800	85	120	460	NT
	12/17/90	18	2,300	810	430	1,400	NT
MW-6	01/17/89	38	7,400	9,300	2,000	9,900	NT
	06/01/89	23	1,900	2,500	2,000	6,000	NT
	09/18/89	17	650	410	650	320	NT
	12/11/89	29	1,100	810	330	1,500	NT
	03/13/90	38	12,000	15,000	2,500	12,000	NT
	06/14/90	38	9,100	7,800	2,900	12,000	NT
	09/19/90	22	4,200	300	1,400	3,400	NT
	12/17/90	20	3,100	4,100	890	2,700	NT
MW-7	01/09/90	17	380	180	330	1,300	NT
	03/13/90		360	270	83	460	NT
	06/14/90		1,200	2,800	75	930	NT
	09/19/90		2,800	95	2,500	1,700	NT
	12/17/90	75	2,600	7,000	3,300	14,000	NT

Table 1. Summary of Chemical Results of Groundwater Samples (continued)

Well Number	Date	TPH Gasoline mg/l	Benzene µg/l	Toluene µg/l	Ethyl- benzene µg/l	Xylenes μg/l	Total Dissolved Solids mg/l
Field			•	-"			
Blank	12/11/89	< 0.05	0.88	0.95	0.62	1.7	NT
	12/17/90	<0.05	<0.05	<0.05	<0.05	<0.05	NT
Trip							2.77
Blank	06/14/90	<0.05	<0.5	<0.5	<0.5	<0.5	NT
	09/19/90	<0.05	0.8	<0.5	0.6	1.0	NT

¹ mg/l: milligrams per liter (parts per million)

² μ g/l: micrograms per liter (parts per billion)

³ NT: Not tested

^{4 &}lt;: Numbers preceded by "<" indicate that sample was below the indicated detection limit.

Table 2. Potentiometric Surface and Product Thickness Measurements

Well Number	Elevation Top of Well Casing ¹	Date	Depth to Water BTOC ² (feet)	Depth to Product BTOC (feet)	Product Thickness (feet)	Potentiometric Surface Elevation (feet above MSL)
MW-1	17.35	06-10-88	6.35	NP^3	NP	11.00
		01-17-89	5.81	NP	NP	11.54
		01-24-89	5.16	NP	NP	12.19
		06-01-89	6.27	NP	Sheen	11.08
		09-18-89	7.11	NP	NP	10.24
		10-20-89	7.28	NP	NP	10.07
		11-22-89	7.02	NP	NP	10.33
		12-11-89	6.60	NP	NP	10.75
		02-13-90	6.02	NP	NP	11.33
		03-13-90	5.91	NP	NP	11.44
		04-18-90	6.18	NP	NP	11.17
		05-23-90	6.29	NP	NP	11.06
		06-14-90	6.19	NP	NP	11.28
		08-21-90	7.03	NP	NP	10.32
		09-19-90	7.26	NP	NP	10.09
		12-17-90	6.75	NP	NP	10.60
MW-2	16.67	06-10-88	6.20	NP	NP	10.47
		01-17-89	5.96	NP	NP	10.71
		01-24-89	5.04	NP	NP	11.63
		06-01-89	6.32	NP	Sheen	10.35
		09-18-89	6.73	NP	NP	9.94
		10-20-89	6.87	NP	NP	9.80
		11-22-89	6.80	NP	NP	9.87
		12-11-89	6.57	NP	NP	10.10
		02-13-90	6.12	NP	NP	10.55
		03-13-90	6.02	NP	NP	10.65
		04-18-90	6.35	NP	NP	10.32
		05-23-90	6.28	NP	NP	10.39
		06-14-90	6.14	NP	NP	10.53
		08-21-90	6.70	NP	NP	9.97
		09-19-90	6.84	NP	NP	9.83
		12-17-90	6.46	NP	NP	10.21

Table 2. Potentiometric Surface and Product Thickness Measurements (continued)

Well Number	Elevation Top of Well Casing ¹	Date	Depth to Water BTOC ² (feet)	Depth to Product BTOC (feet)	Product Thickness (feet)	Potentiometric Surface Elevation (feet above MSL)
MW-3	17.11	06-10-88	6.05	NP	NP	11.06
		01-17-89	5.49	NP	NP	11.62
		01-24-89	5.38	NP	NP	11.73
		06-01-89	5.96	NP	NP	11.15
		09-18-89	6.65	NP	NP	10.46
		10-20-89	6.88	NP	NP	10.23
		11-22-89	6.74	NP	NP	10.37
		12-11-89	6.37	NP	NP	10.74
		02-13-90	5.58	NP	NP	11.53
		03-13-90	5.48	NP	NP	11.63
		04-18-90	6.01	NP	NP	11.10
		05-23-90	6.14	NP	NP	10.97
		06-14-90	5.83	NP	NP	11.28
		08-21-90	6.67	NP	NP	10.44
		09-19-90	6.88	NP	NP	10.23
		12-17-90	6.46	NP	NP	10.65
MW-4	17.34	01-17-89	5.36	NP	NP	11.98
		01-24-89	5.46	NP	NP	11.88
		06-01-89	6.01	NP	NP	11.33
		09-18-89	6.80	NP	NP	10.54
		10-20-89	7.08	NP	NP	10.26
		11-22-89	6.82	NP	NP	10.52
		12-11-89	6.37	NP	NP	10.97
		02-13-90	5.49	NP	NP	11.85
		03-13-90	5.44	NP	NP	11.90
		04-18-90	6.14	NP	NP	11.20
		05-23-90	6.22	NP	NP	11.12
		06-14-90	5.92	NP	NP	11.42
		08-21-90	6.83	NP	NP	10.51
		09-19-90	7.07	NP	NP	10.27
		12-17-90	6.50	NP	NP	10.84
MW-5	16.71	01-17-89	5.39	NP	NP	11.32
-		01-24-89	5.51	NP	NP	11.20
		06-01-89	5.83	NP	Sheen	10.88

Table 2. Potentiometric Surface and Product Thickness Measurements (continued)

Well Number	Elevation Top of Well Casing ¹	Date	Depth to Water BTOC ² (feet)	Depth to Product BTOC (feet)	Product Thickness (feet)	Potentiometric Surface Elevation (feet above MSL)
		<u> </u>				
MW-5	16.71	09-18-89	6.52	NP	NP	10.19
		10-20-89	6.72	NP	NP	9.99
		11-22-89	6.54	NP	NP	10.17
		12-11-89	6.21	NP	NP	10.50
		02-13-90	5.60	NP	NP	11.11
		03-13-90	5.54	NP	NP	11.17
		04-18-90	5.75	NP	NP	10.76
		05-23-90	5.98	NP	NP	10.73
		06-14-90	5.81	NP	NP	10.90
		08-21-90	6.51	NP	NP	10.20
		09-19-90	6.70	NP	NP	10.01
		12-17-90	6.24	NP	Sheen	10.47
MW-6	17.56	01-17-89	5.59	NP	NP	11.97
11111	17.50	01-24-89	5.27	NP	NP	12.29
		06-01-89	6.25	NP	Sheen	11.31
		09-18-89	6.95	NP	NP	10.61
		10-20-89	7.24	NP	NP	10.32
		11-22-89	7.05	NP	NP	10.51
		12-11-89	6.63	NP	NP	10.93
		02-13-90	5.70	NP	NP	11.86
		03-13-90	5.63	NP	NP	11.93
		04-18-90	6.26	NP	NP	11.30
		05-23-90	6.42	NP	NP	11.14
		05-25-90	6.19	NP	NP	11.37
		08-14-90	7.01	NP	NP	10.55
		08-21-90	7.01	NP	NP	10.33
		12-17 - 90	6.66	NP	NP	10.90
		12-1/-70	0.00	141	141	
MW-7	17.12	02-13-90	4.98	NP	NP	12.14
TAT AA - \	17.14	03-13-90	4.94	NP	NP	12,18
		05-23-90	5.87	NP	NP	11.25

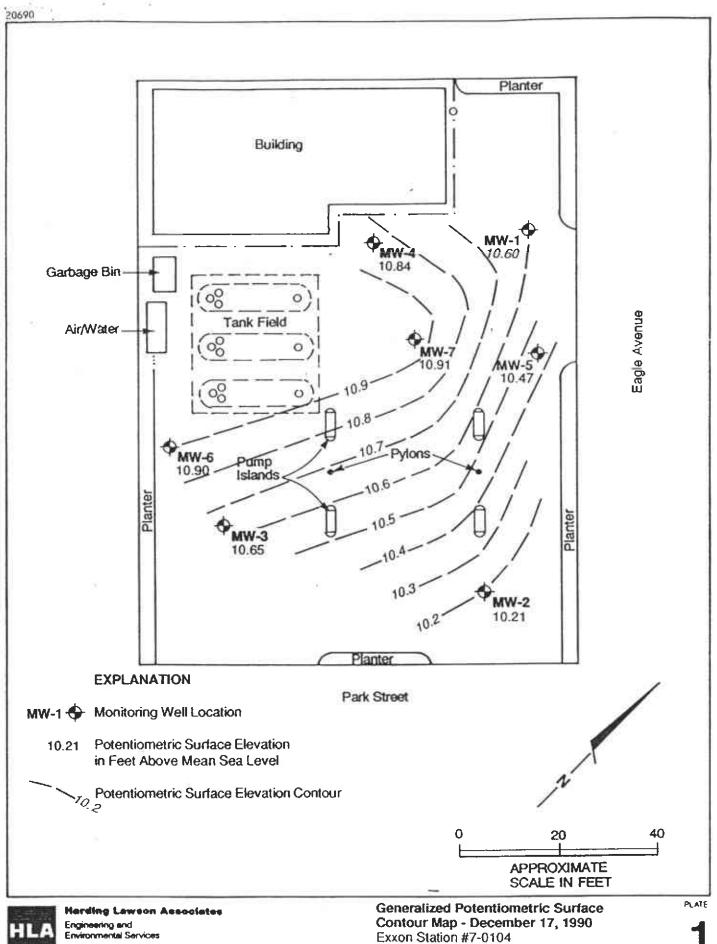
Table 2. Potentiometric Surface and Product Thickness Measurements (continued)

Weil Number	Elevation Top of Well Casing ¹	Date	Depth to Water BTOC ² (feet)	Depth to Product BTOC (feet)	Product Thickness (feet)	Potentiometric Surface Elevation (feet above MSL)
MW-7	17.12	06-14-90 09-19-90 12-17-90	5.55 6.79 6.15	NP NP NP	NP NP NP	11.57 10.33 10.97

¹ Elevations surveyed to mean sea level.

² BTOC - Below top of casing.

NP: No product.



Alameda, California

CVD JOB NUMBER DATE PEVISED DATE APPROVED 04167,326.02 1/91

GROUND-WATER SAMPLING FORM Harding Lawson Associates Engineers and Geoscientists NLW-1 Well No. Well Type: Monitor □ Extraction □ Other ExperAlameda Well Material: ☑PVC ☐ St. Steel ☐ Other _ Date 18-15-190 Time 1155 Job Number _ WELL PURGING PURGE METHOD PURGE VOLUME PVC Bailer - Type: ____ Casing Diameter (D in inches): 2-inch 24-inch 6-inch Other Submersible ☐ Centrifugal ☐ Bladder; Pump No.: __ Total Depth of Casing (TD in feet BTOC): 20,5 Other - Type: __ PUMP INTAKE SETTING Water Level Depth (WL in feet BTOC): ____ ☐ Near Bottom ☐ Near Top Other _ Number of Well Volumes to be purged (# Vols) Depth in feet (BTOC): _____ Screen-Interval in feet (BTOC): PURGE VOLUME CALCULATION: from _ # Vols = Vols Calculated Purge Volume ACTUAL PURGE VOLUME PURGE TIME PURGE RATE 1030 Start 1046 Stop _ _ Elapsed Initial gpm Final == FIELD PARAMETER MEASUREMENT Minutes Since Pumping Began Minutes Since Cond. (µmhos/cm) Cond. Other VIII Other_ pH Pumping Began 10 6.3 5100 21,5 >100 PH 4666 Coxed 3385 Tu 339 Observations During Purging (Well Condition, Turbidity, Color, Odor): Clear, very slight alov Discharge Water Disposal: Sanitary Sewer Storm Sewer 💆 Other ... WELL SAMPLING SAMPLING METHOD Same As Above Bailer - Type: ___ Grab - Type: ___ Submersible ☐ Contrifugal ☐ Bladder; Pump No.: _ ☐ Other - Type: — SAMPLE DISTRIBUTION Sample Series: 90/2 Comments Sample No. Volume/Cont. Analysis Requested Preservatives NOWE

QUALITY CONTROL SAMPLES

	Samples -
Original Sample No.	Duplicate Sample No

ыалк	Samples
Туре	Sample No.

Other Samples

gallons

GROUND-WATER SAMPLING FORM Harding Lawson Associates Engineers and Geoscientists Well No. MW-2 Well Type: ☐ Monitor ☐ Extraction ☐ Other Well Material: MPVC ☐ St. Steel ☐ Other _ Job Name Exxon ALAMED A Date 12-17-90 Time 1210 Job Number 4167, 326.02 Sampled by Tom Durkens WELL PURGING PURGE METHOD PURGE VOLUME D Bailer - Type: PV (Casing Diameter (D in inches): Submersible ☐ Centrifugal ☐ Bladder; Pump No.: ___ 2-inch 1 4-inch 6-inch Other Total Depth of Casing (TD in feet BTOC): 16.0 Other - Type: Water Level Depth (WL in feet BTOC): ____ PUMP INTAKE SETTING Other ___ ☐ Near Bottom ☐ Near Top Number of Well Volumes to be purged (# Vols) Depth in feet (BTOC): _____ Screen Interval in feet (BTOC): 1 3 4 5 10 0ther ■ PURGE VOLUME CALCULATION: U 2 X 3 X 0.0408 = 18-7 D (inches) # Vols Calculated Purge Volume ACTUAL PURGE VOLUME PURGE TIME PURGE RATE 1133 Start | 200 Stop _____ Elapsed Initial ____ gpm Final ____ FIELD PARAMETER MEASUREMENT Minutes Since Pumping Began Cond. (µmhos/cm) Minutes Since Cond. Other NTU рΗ Pumping Began (µmhos/cm) 625 650 7100 70.2 7100 7100 20.3 Meter Nos. Observations During Purging (Well Condition, Turbidity, Color, Odor): SHEEN, SMONG GREELING ONOR Other Drum Storm Sewer Discharge Water Disposal: Sanitary Sewer WELL SAMPLING SAMPLING METHOD ☐ Same As Above Y Bailer - Type: S- S-Grab - Type: .. ☐ Submersible ☐ Centrifugal ☐ Bladder; Pump No.: _ Other - Type: Sample Series: 90/7 SAMPLE DISTRIBUTION Lab Comments Sample No. Volume/Cont. Analysis Requested Preservatives 7PH (645); BTEX 1707 3V095 NONZ NET

QUALITY CONTROL SAMPLES

Г	- Duplicate Samples	вынк	Samples	Other Samples	
l	Original Sample No. Duplicate Sample No.	Туре	Sample No.	Туре	Sample No.
			1		
L					

Other Complet

_ gallons

_ gallons

Other_

GROUND-WATER SAMPLING FORM Harding Lawson Associates Engineers and Geoscientists Well No. Mw-3 Well Type: ☐Monitor ☐ Extraction ☐ Other _ Well Material: MPVC □ St. Steel □ Other -Job Name Exx on ALAMEDA Date 12-17-90 Time 1005 Job Number 4167.326.02 Sampled by TMD OME Recorded by Ton Anhand WELL PURGING PURGE METHOD PURGE VOLUME 🖺 Bailer - Type: PVC Casing Diameter (D in inches): ☐ Submersible ☐ Centrifugal ☐ Bladder; Pump No.: ____ Total Depth of Casing (TD in feet BTOC): 14. 2 Other - Type: ___ Water Level Depth (WL in feet BTOC): 6.46 PUMP INTAKE SETTING ☐ Near Bottom ☐ Near Top Other_ Number of Well Volumes to be purged (# Vols) Depth in feet (BTOC): _____ Screen Interval in feet (BTOC): from ______ to _____ PURGE VOLUME CALCULATION: 1 X 3 X 0.0408 = 15, 2 (inches) # Vols Calculated Purge Volume gations TD (feet) ACTUAL PURGE VOLUME PURGE RATE PURGE TIME 15.5 gallons 0944 Start | 000 Stop _____ Elapsed Initial _____ gpm Final _____ gpm FIELD PARAMETER MEASUREMENT Minutes Since Pumping Began Minutes Since Cond. Cond. (µmhos/cm) Other MTU ρН Other_ Pumping Began (µmhos/cm) 0 gals 7.0 650 20.0 16 6.8 675 19.7 7100 5 675 19.5 6.7 7100 10 19.5 7100 675 15.5 Meter Nos. Observations During Purging (Well Condition, Turbidity, Color, Odor): SLIGHT 64301 INF 64301 M Other _ 124-1 ☐ Storm Sewer Discharge Water Disposal: Sanitary Sewer WELL SAMPLING SAMPLING METHOD Same As Above Grab - Type: __ Submersible Centrifugal Bladder; Pump No.:. Other - Type:_ Sample Series: 9012 SAMPLE DISTRIBUTION Comments Lab Volume/Cont. Analysis Requested Preservatives Sample No. 1701 3 4045 TOH (6 AS); BTEX NONE NET

QUALITY CONTROL SAMPLES

Duplicate Samples		Blank	Samples	Other Samples		
Original Sample No.	Duplicate Sample No.	Туре	Sample No.	Туре	Sample No.	
	<u> </u>					
					-	

GROUND-WATER SAMPLING FORM Harding Lawson Associates Engineers and Geoscientists 14W-4 Well No. -Well Type: Monitor □ Extraction □ Other □ Well Material: PVC □ St. Steel □ Other □ Job Name Date 12/17/90 Time 16/5 Job Number Sampled by -Recorded by . WELL PURGING PURGE METHOD PURGE VOLUME Bailer - Type: ____ Casing Diameter (D in inches): ☐ Submersible ☐ Centrifugal ☐ Bladder; Pump No.: — 2-inch \$4-inch 6-inch Other_ Total Depth of Casing (TD in feet BTOC): 156 Other - Type: ___ Water Level Depth (WL in feet BTOC): 6-50 PUMP INTAKE SETTING ☐ Near Bottom ☐ Near Top Other __ Number of Well Volumes to be purged (# Vols) Screen Interval in feet (BTOC): Depth in feet (BTGC):___ 3 4 5 10 Other PURGE VOLUME CALCULATION: $\left(\frac{18.0}{10 \text{ (feet)}} - \frac{6.50}{\text{WL (feet)}}\right) \times \frac{4}{0 \text{ (inches)}}^2 \times \frac{3}{4 \text{ Vols}} \times 0.0408 =$ Calculated Purge Volume PINITE (CHE TRIMITE AGREALER RESTORING PURCE BATE ___Stop _____Elapsed gallons 0254 Start Initial _____gpm Final ____gpm FIELD PARAMETER MEASUREMENT Minutes Since Pumping Began Cond. (µmhos/cm) Minutes Since Other 14TEL Other. Pumping Began (µmhos/cm) 11 600 2100 20,5 7100 1444 Covid3355 Meter Nos. Observations During Purging (Well Condition, Turbidity, Color, Odor): Cleans Slight below Discharge Water Disposal: Sanitary Sewer Storm Sewer WELL SAMPLING SAMPLING METHOD ☐ Same As Above Grab - Type; ___ KLBaller - Type; ____ ☐ Submersible ☐ Centrifugal ☐ Bladder; Pump No.: Other - Type:__ Sample Series: 90/2 SAMPLE DISTRIBUTION Comments Volume/Cont. Analysis Requested Preservatives Sample No. NONE QUALITY CONTROL SAMPLES Other Samples Duellasta Camples Plank Samples

Cupinouse Charipion	Ber 1901 111	Control of the Control		
Original Sample No. Duplicate Sample No.	Туре	Sample No.	Туре	Sample No.

0746

GROUND-WATER SAMPLING FORM Harding Lawson Associates MW-5 Engineers and Geoscientists Well No. ___ Well Type: ☐Monitor ☐Extraction ☐ Other __ Well Material: MPVC □ St. Steel □ Other _____ Job Name Date 12/17/90 Time 1140 Job Number . Sampled by Recorded by WELL PURGING PURGE METHOD PURGE VOLUME Bailer - Type: _ Casing Diameter (D in inches): ☐ Submersible ☐ Centrifugal ☐ Bladder; Pump No.: __ 2-inch (4-inch 6-inch Other __ Other - Type: ___ Total Depth of Casing (TD in feet BTOC):____ PUMP INTAKE SETTING Water Level Depth (WL in feet BTOC):_____ Near Bottom Near Top Other_ Number of Well Volumes to be purged (# Vols) Screen Interval in feet (BTOC): Depth in feet (BTOC): ____ M3 □4 □5 □10 □ Other. PURGE VOLUME CALCULATION: Ψ 2 D (inches) X 3 X 0.0408 = 25 Calculated Purge Volume ACTUAL PURGE VOLUME PURGE RATE PURGE TIME 1/16 Start 1/25 Stop _ ___ Elapsed Final ___ FIELD PARAMETER MEASUREMENT Minutes Since Pumping Began Minutes Since Pumping Began Cond. (µmhos/cm) Other NTU (µmhos/cm) PH466 Coud 3385 Tur 3399 Meter Nos. Observations During Purging (Well Condition, Turbidity, Color, Odor): = Discharge Water Disposal: Sanitary Sewer Storm Sewer Other 553dldwww ous WELL SAMPLING ☐ Same As Above SAMPLING METHOD Grab - Type: __ ⊠ Bailer - Type:__ Other - Type:_ ☐ Submersible ☐ Centrifugal ☐ Bladder; Pump No.: _ Sample Series: 90 / K SAMPLE DISTRIBUTION Comments Preservatives Lab Volume/Cont. Analysis Requested Sample No. NONE

QUALITY CONTROL SAMPLES

Blank San	nples	Other Samples			
Туре	Sample No.	Туре	Sample No.		
Field Bleut	1708		-		
			Type Sample No. Type		

Other_

Harding Lawson Associates

Engineers and Geoscientists

	rs and G	030101111010			Well No	MW-	2		
							or DExtract	ion 🗆 Ot	her
ob Name <u>Ex</u>	Vana	Arantoa			41		/C ☐ St. Ste		
ob Number		•					70		
ecorded by	700	Duha	M		Sampled b		1		
	0.50	(Sign	aiure)			- 00		(Inklais)	
位于1.有种增生	具性性			WEL	L PURGING			新加思	
PURGE VOLU	ME				PURGE M	and the same of th			
Casing Diameter ((D in incl	hes):			🕅 Bailer - Ty				
🗋 2-inch 🏻 💆 4-ir						le 🗌 Cen	trifugal Blade	der; Pump	No.:
Total Depth of Ca						-	THE PERSON NAMED IN COLUMN 1		
Water Level Depti	h (WL in	feet BTOC):_	6-66		University of a solution of the second	THE OWNER WHEN	Maria Maria Cara		
Number of Well V	olumes 1	to be purged ((# Vols)		☐ Near Botto		•	her	
№3 🗆4 🗆5		CONTRACTOR	579		Depth in feet	(BTOC): _			in feet (BTOC):
PURGE VOLU	ME CA	LCULATION	1	2					to
18.6 -	6.6	(L) X_	9	x_3	X 0.0408	2	3.9 Calculated P	woe Volum	gallon
		teet) / D	(inches)						
PURGE TIME	To the second	192		Print Street	ERATE		2/	-	E VOLUME
1018 Start 10	and the second second	Contraction of the Contract of	Charles and Artist and	Initial	gpm Final_	gpr	n	7	gallon
FIELD PARAM	PROGRAMMA TO MATERIA	CHARGERSTONESCHEREIGEN	Material State of the State of		I Minutes Sing		Cond	□°C	
Minutes Since Pumping Began	Vinutes Since pH Cond. Τ΄ Δ΄ °C Ot (μπλος/cm)		Other ~ T	Minutes Since Pumping Bega		Cond. (µmhos/cm)	τ D:c	Other	
0 gals	7.0	500	18.9	7100					
\$ 8	6.6	525	19.4	>100					
16	6.6	525	19.5	7100		4-			
24	6.6	525	19.4	7100		-			
					Meter Nos.				
Observations Duri	ing Purg	ing (Well Con-	dition, Turbi	dity, Color, (Odor): TURBID,	<u> </u>	SLILIFT O	1500 IN	UE BOOK
Discharge Water I	Disposal	: Sanitary	Sewer [Storm Sew		eun			
是可以而共命			s arries	WELL	SAMPLING	(市) 表现	學學學		以
SAMPLING M	ETHOD	Ď			Same As	Above			
☑ Bailer - Type:_					Grab - Туј	oe;			
☐ Submersible [Centrif	ugal [] Bladd	er; Pump N	o.:	Other - Ty	pe:			
SAMPLE DIST	DIDLIT	Salar Stirry (May		9 MID					
British Commission Control St.	HIBUT	ION San	npl e Series;						And the second second second second
Sample No.	Volu	me/Cont.	Analysis Re	quested	Preservatives		Lab	C	omments
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Sample No.	Volu	me/Cont.	Analysis Re	quested	100000000000000000000000000000000000000	٠,		0	omments
Sample No.	Volu	me/Cont.	Analysis Re	quested	100000000000000000000000000000000000000	٠,		C	omments
Sample No.	Volu	me/Cont.	Analysis Re	quested	100000000000000000000000000000000000000	٧,		C	omments
Sample No.	Volu	me/Cont.	Analysis Re	quested	100000000000000000000000000000000000000	<i></i>		C	omments
Sample No.	Volu	me/Cont.	Analysis Re	quested	100000000000000000000000000000000000000	<i></i>		C	omments
Sample No.	Volu	me/Cont.	Analysis Re	quested	100000000000000000000000000000000000000	<i></i>		C	omments
Sample No.	Vote 3	ume/Cont.	Analysis Re	quested	100000000000000000000000000000000000000	سر		Č	omments
Sample No. 1703	Vote 3:	SAMPLES	Analysis Re	quested); i37EX	Nore	<i></i>	·e7		
Sample No. 1703 QUALITY CON	Volu 3.1	SAMPLES imples	Analysis Re №H (645	quested); i37EX	100000000000000000000000000000000000000		·e7	ner Sample	
Sample No. 1703	Volu 3.1	SAMPLES imples	Analysis Re №H (645	quested);i37Ex	Nore		~ Ott	ner Sample	\$
Sample No. 1703 QUALITY CON	Volu 3.1	SAMPLES imples	Analysis Re №H (645	quested);i37Ex	Nore		~ Ott	ner Sample	\$
Sample No. 1703 QUALITY CON	Volu 3.1	SAMPLES imples	Analysis Re №H (645	quested);i37Ex	Nore		~ Ott	ner Sample	\$

GROUND-WATER SAMPLING FORM Harding Lawson Associates Engineers and Geoscientists Well No. Au-7 Well Type: ☑Monitor ☐Extraction ☐ Other Well Material: ☑PVC ☐ St. Steel ☐ Other___ Job Name Exxon Alam Goa Date 12-17-90 Time //10 Job Number 4167, 326.02 Recorded by Ton Inhand Sampled by TMD WELL PURGING PURGE METHOD PURGE VOLUME 🛭 Bailer - Type: _ PV C_ Casing Diameter (D in inches): ☐ Submersible ☐ Centrifugal ☐ Bladder; Pump No.: — 2-inch St4-inch 6-inch Other Total Depth of Casing (TD in feet BTOC): 17 Other - Type: _ Water Level Depth (WL in feet BTOC): ___ 6.15 PUMP INTAKE SETTING ☐ Near Bottom ☐ Near Top ☐ Other __ Number of Well Volumes to be purged (# Vols) 12 3 □ 4 □ 5 □ 10 □ Other = Depth in feet (BTOC): ______ Screen Interval in feet (BTOC): from _____ to ___ PURGE VOLUME CALCULATION: $- \underbrace{6.15}_{WL \text{ (feet)}} \times \underbrace{4^2}_{D \text{ (inches)}} \times \underbrace{3}_{Vols} \times 0.0408 = \underbrace{21.2}_{Calculated Purge Volume}$ ACTUAL PURGE VOLUME PURGE TIME PURGE RATE 1055 Start 1105 Stop 10 Elapsed Initial _____gpm Final ____gpm FIELD PARAMETER MEASUREMENT Minutes Since Cond. Minutes Since Pumping Began Cond. (µmhos/cm) Other_ Other MIA Pumping Began 600 575 7100 2100 16 575 19-5 7100 23 Meter Nos. Observations During Purging (Well Condition, Turbidity, Color, Odor): SILTI, TURBINE SILILAT 64001 PC Other Dau~ Discharge Water Disposal: Sanitary Sewer Storm Sewer WELL SAMPLING SAMPLING METHOD ☐ Same As Above 12 Baller - Type: 5.5. Grab - Type: ___ ☐ Submersible ☐ Centrifugal ☐ Bladder; Pump No.: _____ Other - Type:___ Sample Series: 90/2 SAMPLE DISTRIBUTION Volume/Cont. Analysis Requested Comments Sample No. Preservatives 1705 3 VO95 NET NONE

QUALITY CONTROL SAMPLES

Duplicate Samples

an ingeriorist		MIN 2011/22	Company of the Compan	11,750,1853	- 1 1 1 2 1 W. 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Original Sample No.	Duplicate Sample No.	Туре	Sample No.	Туре	Sample No.

Blank Samples

Other Samples



NET Pacific, Inc. 435 Tesconi Circle Santa Rosa, CA 95401

Tel: (707) 526-7200 Fax: (707) 526-9623

Michelle Watson
Harding Lawson Associates
200 Rush Landing
Novato, CA 94947

Date: 01-07-91

NET Client Acct No: 281 NET Pacific Log No: 5366 Received: 12-17-90 1500

Client Reference Information

Exxon, Alameda; Job: 4167,326.02

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Jules Skamarack Laboratory Manager

JS:rct
Enclosure(s)



Client No: 281

Client Name: Harding Lawson Associates

NET Log No: 5366

Date: 01-07-91

Page: 2

Ref: Exxon, Alameda; Job: 4167,326.02

		_	90121701 12-17-90 1005	90121702 12-17-90 1015	
Parameter	Method	Reporting Limit	70949	70950	Units
PETROLEUM HYDROCARBONS				-	
VOLATILE (WATER)				- -	
DILUTION FACTOR *			10	10	
DATE ANALYZED			12-27-90	12-21-90	
METHOD GC FID/5030					
as Gasoline		0.05	6.7	14	mg/L
METHOD 602					
DILUTION FACTOR *			100	100	
DATE ANALYZED			12-20-90	12-28-90	
Benzene		0.5	1,500	1400	ug/L
Ethylbenzene		0.5	650	540	ug/L
Toluene		0.5	64	620	ug/L
Xylenes, total		0.5	460	2100	ug/L



® Client No: 281

Client Name: Harding Lawson Associates

NET Log No: 5366 Date: 01-07-91

Page:

Ref: Exxon, Alameda; Job: 4167,326.02

			90121703 12-17-90 1040	90121704 12-17-90 1055	
		Reporting			
Parameter	Method	Limit	70951	70952	Units
PETROLEUM HYDROCARBONS					
VOLATILE (WATER)					
DILUTION FACTOR *			10	1	
DATE ANALYZED			12-21-90	12-20-90	
METHOD GC FID/5030					
as Gasoline ´		0.05	20	2.1	mg/L
METHOD 602					
DILUTION FACTOR *			100	1	
DATE ANALYZED			12-28-90	12-20-90	
Benzene		0.5	3100	550	ug/L
Ethylbenzene		0.5	890	350	ug/L
Toluene		0.5	4100	13	ug/L
Xylenes, total		0.5	2700	110	ug/L



Client No:

281

Client Name: Harding Lawson Associates

NET Log No:

5366

Date: 01-07-91

Page:

Ref: Exxon, Alameda; Job: 4167,326.02

			90121705	90121706 12-17-90	
			12-17-90 1110	1140	
		Reporting	1110		
Parameter	Method	Limit	70953	70954	Units
PETROLEUM HYDROCARBONS					
VOLATILE (WATER)					
DILUTION FACTOR *			50	10	
DATE ANALYZED			12-20-90	12-21-90	
METHOD GC FID/5030					
as Gasoline		0.05	75	18	mg/L
METHOD 602					
DILUTION FACTOR *			200	100	
DATE ANALYZED	4		12-21-90	12-28-90	
Benzene		0.5	2600	2300	ug/L
Ethylbenzene		0.5	3300	430	ug/L
Toluene		0.5	7000	810	ug/L
Xylenes, total		0.5	14,000	1400	ug/L



281 Client No:

Client Name: Harding Lawson Associates

NET Log No: 5366 Date:

5 Page:

01-07-91

Ref: Exxon, Alameda; Job: 4167,326.02

			•		
			90121707 12-17-90 1210	90121708 12-17-90 1159	
		Reporting			
Parameter	Method	Limit	70955	70956	Units
PETROLEUM HYDROCARBONS					
VOLATILE (WATER)					
DILUTION FACTOR *			100	1	
DATE ANALYZED			12-20-90	12-20-90	
METHOD GC FID/5030					
as Gasoline		0.05	140	ND	mg/L
METHOD 602					
DILUTION FACTOR *			100	1	
DATE ANALYZED			12-20-90	12-20-90	
Benzene		0.5	3700	ND	ug/L
Ethylbenzene		0.5	3000	ND	ug/L
Toluene		0.5	2500	ND	ug/L
Xylenes, total		0.5	8300	ND	ug/L



® Client Acct: 281

Client Name: Harding Lawson Associates

Page: 6

NET Log No: 5366

Ref: Exxon, Alameda; Job: 4167,326.02

QUALITY CONTROL DATA

Date: 01-04-91

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Gasoline	0.05	mg/L	88	ND	93	90	3.3
Benzene Toluene Gasoline	0.5 0.5 0.05	ug/L ug/L mg/L	98 104 111	ND ND	100 101 107	109 109 118	9.0 7.8 9.6
Gasoline Benzene Toluene	0.05 0.5 0.5	mg/L ug/L ug/L	123 114 107	ND ND ND	117 87 97	118 90 99	< 1 3.4 2.0

COMMENT: Blank Results were ND on other analytes tested.



KEY TO ABBREVIATIONS and METHOD REFERENCES

<	:	Less than; When appearing in results co	olumn indicates analyte
		not detected at the value following.	This datum supercedes
		the listed Reporting Limit.	

Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).

ICVS : Initial Calibration Verification Standard (External Standard).

mean : Average; sum of measurements divided by number of measurements.

mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram

of sample, wet-weight basis (parts per million).

mg/L : Concentration in units of milligrams of analyte per liter of

sample.

mL/L/hr : Milliliters per liter per hour.

MPN/100 mL : Most probable number of bacteria per one hundred milliliters

of sample.

N/A : Not applicable.

NA : Not analyzed.

ND : Not detected; the analyte concentration is less than applicable

listed reporting limit.

NTU : Nephelometric turbidity units.

RPD : Relative percent difference, 100 [Value 1 - Value 2]/mean value.

SNA : Standard not available.

ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram

of sample, wet-weight basis (parts per billion).

ug/L : Concentration in units of micrograms of analyte per liter of

sample.

umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 16th Edition, APHA, 1985.

Harding Lawson Associates 7655 Redwood Boulevard P.O. Box 578 Novato, California 94948

506 CHAIN OF CUSTODY FORM

Lab: NET

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