

EXON COMPANY, U.S.A.

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ENVIRONMENTAL ENGINEERING

W. Y. WANG
SENIOR ENVIRONMENTAL ENGINEER

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Alameda Co DEH
HHW DIV

21 November, 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

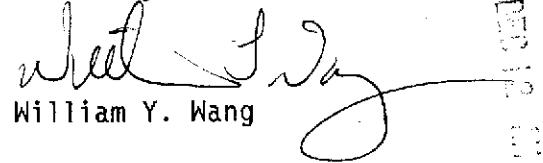
Dear Ms. Chesick:

Attached for your review and comment is a report entitled **Groundwater Monitoring Results, Fourth Quarter 1991** for the above referenced Exxon station in Alameda. This report, prepared by Harding Lawson Associates of Novato, California, presents the results of the ground water sampling event performed in October, 1991.

The results of this sampling event indicate that petroleum hydrocarbons were detected in all wells at the site. Please note that Exxon has submitted a work plan for remedial action to the County on 23 September, 1991.

Should you have any questions or require additional information, please do not hesitate to call me at (510) 246-8768.

Sincerely,


William Y. Wang

WYW:hs
0559E.5
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
Mr. G. DeMarzo
Mr. J. R. Hastings
Ms. S. M. Watson - Harding Lawson Associates

Harding Lawson Associates



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November 8, 1991

4167,416.02

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

Attention: Mr. Bill Wang

Gentlemen:

Groundwater Monitoring Results, Fourth Quarter 1991
Exxon Station #7-0104
Alameda, California

This letter presents the results of Harding Lawson Associates' (HLA) fourth quarter of 1991 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's 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 October 22, 1991, and represents HLA's second sampling event authorized by Exxon Company, U.S.A. (Exxon) Work Authorization #90066058.

Groundwater-Level Monitoring and Groundwater Sampling

HLA has obtained monthly groundwater-level and free-phase hydrocarbon measurements from the monitoring wells since September 1989. All measurements were performed with an electric oil-water interface probe or a chalked steel tape. 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 measurable free-phase petroleum product has been observed in any of the wells during the course of this investigation.

Prior to groundwater sample collection on October 22, 1991, the monitoring wells were purged a minimum of three well volumes 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.

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Harding Lawson Associates

Groundwater samples were collected from each of the monitoring wells using a stainless steel bailer and decanted into pre-acidified 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 VOA vials. 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 PACE, Inc., Novato, California. PACE 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 or washing in a low phosphorous soap solution.

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 October 22, 1991, sampling are attached to this letter.

Groundwater Gradient and Flow Direction

Potentiometric surface elevations from the October 1991 groundwater-level survey are presented in Table 2, along with previously measured potentiometric surface elevations. Potentiometric surface elevations at the site have decreased over the past three months, most likely as a result of the lack of precipitation. 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 0.008 to 0.02 ft/ft. This flow direction is consistent with previous potentiometric surface data obtained during this investigation.

Laboratory Analytical Results

Laboratory analytical results from the October sampling indicate that petroleum hydrocarbon constituents were detected in all seven wells onsite. Detected concentrations of TPH as gasoline ranged from 0.540 to 34 milligrams per liter (mg/l). The highest concentrations of petroleum hydrocarbon constituents were detected in the groundwater sample collected from Monitoring Well MW-2, located downgradient of the fuel storage and distribution systems. No petroleum hydrocarbons were detected in the field blank submitted to the laboratory for analysis.

Review of chemical analyses reveals that concentrations of petroleum constituents have decreased in all monitoring wells during the past quarter. The concentration of benzene exceeds the California State Department of Health Services (DHS) action level

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of 0.7 micrograms per liter ($\mu\text{g/l}$) in all monitoring wells at the site. The DHS action levels for toluene (100 $\mu\text{g/l}$), ethylbenzene (680 $\mu\text{g/l}$) and xylenes (620 $\mu\text{g/l}$) were exceeded in Wells MW-2, MW-3, and MW-6.

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 January 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

Gary A. Lieberman

Gary A. Lieberman

Staff Geologist

Michael L. Siembieda

Michael L. Siembieda

Associate Geologist - RG 4007

SMW/MLS/amw/T19020-H



Attachments: Table 1 - Summary of Chemical Results of Groundwater Samples
 Table 2 - Potentiometric Surface Elevations and Product Thickness Measurements
 Plate 1 - Generalized Potentiometric Surface Contour Map,
 October 22, 1991
 Groundwater Sampling Forms
 Laboratory Analytical Reports

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Table 1. Summary of Chemical Results
of Groundwater Samples

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Well Number	Date	TPH Gasoline mg/l ¹	Benzene µg/l ²	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	Total Dissolved Solids mg/l
DHS Action Levels		0.7		100	680	620	
MW-1	06/07/88	27	5,000	77	1,100	2,700	NT ³
	01/17/89	6.8	2,000	91	800	1,600	NT
	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
	03/13/90	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
	03/19/91	1.4	900	45	390	150	NT
	07/24/91	9.7	1,300	670	950	2,100	NT
	10/22/91	(0.540)	220	1.8	110	7.8	NT
MW-2	06/07/88	110	12,000	12,000	2,100	12,000	NT
	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
	03/19/91	48	4,500	1,600	2,100	5,500	NT
	07/24/91	49	3,500	2,200	2,000	6,400	NT
	10/22/91	(34)	3,700	1,100	1,800	5,200	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	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
	03/19/91	18	4,200	2,100	1,100	1,200	NT
	07/24/91	38	6,200	990	2,900	9,600	NT
	10/22/91	(23)	3,400	150	2,500	4,400	NT

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

Harding Lawson Associates

Well Number	Date	TPH Gasoline mg/l ¹	Benzene μg/l ²	Toluene μg/l	Ethyl-benzene μg/l	Xylenes μg/l	Total Dissolved Solids mg/l
DHS Action Levels		0.7		100	680	620	
MW-4	01/17/89	19	1,000	1,500	360	2,200	NT
	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
	03/19/91	11	1,500	740	620	2,100	NT
	07/24/91	10	1,200	440	410	1,200	NT
	10/22/91	4.6	750	190	350	780	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
	03/19/91	17	2,900	610	580	1,200	NT
	07/24/91	16	3,200	320	690	1,100	NT
	10/22/91	6.6	2,000	64	320	480	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
	03/19/91	180	11,000	55,000	5,600	28,000	NT
	07/24/91	48	5,400	2,300	2,000	9,000	NT
	10/22/91	18	3,100	700	1,400	2,900	NT
MW-7	01/09/90	17	380	180	330	1,300	NT
	03/13/90	16	360	270	83	460	NT
	06/14/90	14	1,200	2,800 ⁷⁵	75	930	NT

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

Harding Lawson Associates

Well Number	Date	TPH Gasoline mg/l ¹	Benzene μg/l ²	Toluene μg/l	Ethyl-benzene μg/l	Xylenes μg/l	Total Dissolved Solids mg/l
DHS Action Levels		0.7		100	680	620	
MW-7	09/19/90	16	2,800	95	2,500	1,700	NT
(cont.)	12/17/90	75	2,600	7,000	3,300	14,000	NT
	03/19/91	44	1,600	740	3,400	8,600	NT
	07/24/91	18	1,300	160	2,700	1,000	NT
	10/22/91	(T0)	990	26	1,900	490	NT
Field Blank	12/11/89	<0.05	0.88	0.95	0.62	1.7	NT
	12/17/90	<0.05	<0.5	<0.5	<0.5	<0.5	NT
	03/19/91	<0.05	<0.5	<0.5	<0.5	<0.5	NT
	07/24/91	<0.05	<0.5	<0.5	<0.5	<0.6	NT
	10/22/91	<0.05	<0.5	<0.5	<0.5	<0.5	NT
Trip 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

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

2 μg/l: micrograms per liter (parts per billion)

3 NT: Not tested

4 <: Numbers preceded by "<" indicate that sample was below the indicated detection limit.

**Table 2. Potentiometric Surface
and Product Thickness Measurements**

Harding Lawson Associates

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
		01-31-91	6.78	NP	NP	10.57
		02-25-91	6.59	NP	NP	10.76
		03-19-91	5.85	NP	NP	11.50
		04-22-91	5.72	Sheen	Sheen	11.63
		05-17-91	6.00	NP	NP	11.35
		07-24-91	6.79	NP	NP	10.56
		09-10-91	7.25	NP	NP	10.10
		09-23-91	7.33	NP	NP	10.02
		10-21-91	7.53	NP	NP	9.82
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
		01-31-91	6.66	Sheen	Sheen	10.01

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

Harding Lawson Associates

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-2 (cont.)		02-25-91	6.50	NP	NP	10.17
		03-19-91	5.76	Sheen	Sheen	10.91
		04-22-91	5.78	NP	NP	10.89
		05-17-91	6.01	NP	NP	10.66
		07-24-91	6.43	NP	NP	10.24
		09-10-91	6.81	NP	NP	9.86
		09-23-91	6.82	NP	NP	9.85
		10-21-91	7.01	NP	NP	9.66
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
		01-31-91	6.24	NP	NP	10.87
		02-25-91	6.18	NP	NP	10.93
RECEIVED NOV 26 1991 Alameda Co DEH HHW DIV		03-19-91	5.35	NP	NP	11.76
		04-22-91	5.72	NP	NP	11.39
		05-17-91	5.55	NP	NP	11.56
		07-24-91	6.41	NP	NP	10.70
		09-10-91	6.80	NP	NP	10.31
		09-23-91	6.80	NP	NP	10.31
		10-21-91	7.09	NP	NP	10.02
		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
MW-4	17.34	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

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

Harding Lawson Associates

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-4 (cont.)	03-13-90	5.44	NP	NP	NP	11.90	
	04-18-90	6.14	NP	NP	NP	11.20	
	05-23-90	6.22	NP	NP	NP	11.12	
	06-14-90	5.92	NP	NP	NP	11.42	
	08-21-90	6.83	NP	NP	NP	10.51	
	09-19-90	7.07	NP	NP	NP	10.27	
	12-17-90	6.50	NP	NP	NP	10.84	
	01-31-91	6.66	NP	NP	NP	10.68	
	02-25-91	6.21	NP	NP	NP	11.13	
	03-19-91	5.29	NP	NP	NP	12.05	
	04-22-91	5.26	NP	NP	NP	12.08	
	05-17-91	5.60	NP	NP	NP	11.74	
	07-24-91	6.54	NP	NP	NP	10.80	
	09-10-91	7.04	NP	NP	NP	10.10	
	09-23-91	7.14	NP	NP	NP	10.20	
	10-21-91	7.30	Sheen	Sheen	Sheen	10.04	
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	
		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	
RECEIVED NOV 26 1991 Alameda Co DEH HHW DIV		09-19-90	6.70	NP	NP	10.01	
		12-17-90	6.24	NP	Sheen	10.47	
		01-31-91	6.31	NP	NP	10.40	
		02-25-91	6.13	NP	NP	10.58	
		03-19-91	5.32	NP	NP	11.39	
		04-22-91	5.30	Sheen	Sheen	11.41	
		05-17-91	5.59	NP	NP	11.12	
		07-24-91	6.33	NP	NP	10.38	
		09-10-91	6.66	NP	NP	10.05	
		09-23-91	6.75	NP	NP	9.96	
		10-21-91	6.92	Sheen	Sheen	9.79	

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

Harding Lawson Associates

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-6	17.56	01-17-89	5.59	NP	NP	11.97
		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
		06-14-90	6.19	NP	NP	11.37
		08-21-90	7.01	NP	NP	10.55
		09-19-90	7.23	NP	NP	10.33
		12-17-90	6.66	NP	NP	10.90
		01-31-91	6.39	NP	NP	11.17
		02-25-91	6.39	NP	NP	11.17
		03-19-91	5.57	NP	NP	11.99
		04-22-91	5.42	NP	NP	12.14
		05-17-91	5.73	NP	NP	11.83
MW-7	17.12	07-24-91	6.72	NP	NP	10.84
		09-10-91	7.15	NP	NP	10.41
		09-23-91	7.25	NP	NP	10.31
		10-21-91	7.42	NP	NP	10.14
		02-13-90	4.98	NP	NP	12.14
		03-13-90	4.94	NP	NP	12.18
		05-23-90	5.87	NP	NP	11.25
		06-14-90	5.55	NP	NP	11.57
		09-19-90	6.79	NP	NP	10.33
		12-17-90	6.15	NP	NP	10.97
		01-31-91	6.64	NP	NP	10.48

MW-7	17.12	02-13-90	4.98	NP	NP	12.14
		03-13-90	4.94	NP	NP	12.18
		05-23-90	5.87	NP	NP	11.25
		06-14-90	5.55	NP	NP	11.57
		09-19-90	6.79	NP	NP	10.33
		12-17-90	6.15	NP	NP	10.97
		01-31-91	6.64	NP	NP	10.48
		02-25-91	5.80	NP	NP	11.32
		03-19-91	4.96	NP	NP	12.16
		04-22-91	4.82	Sheen	Sheen	12.30
		05-17-91	5.18	NP	NP	11.94

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

Harding Lawson Associates

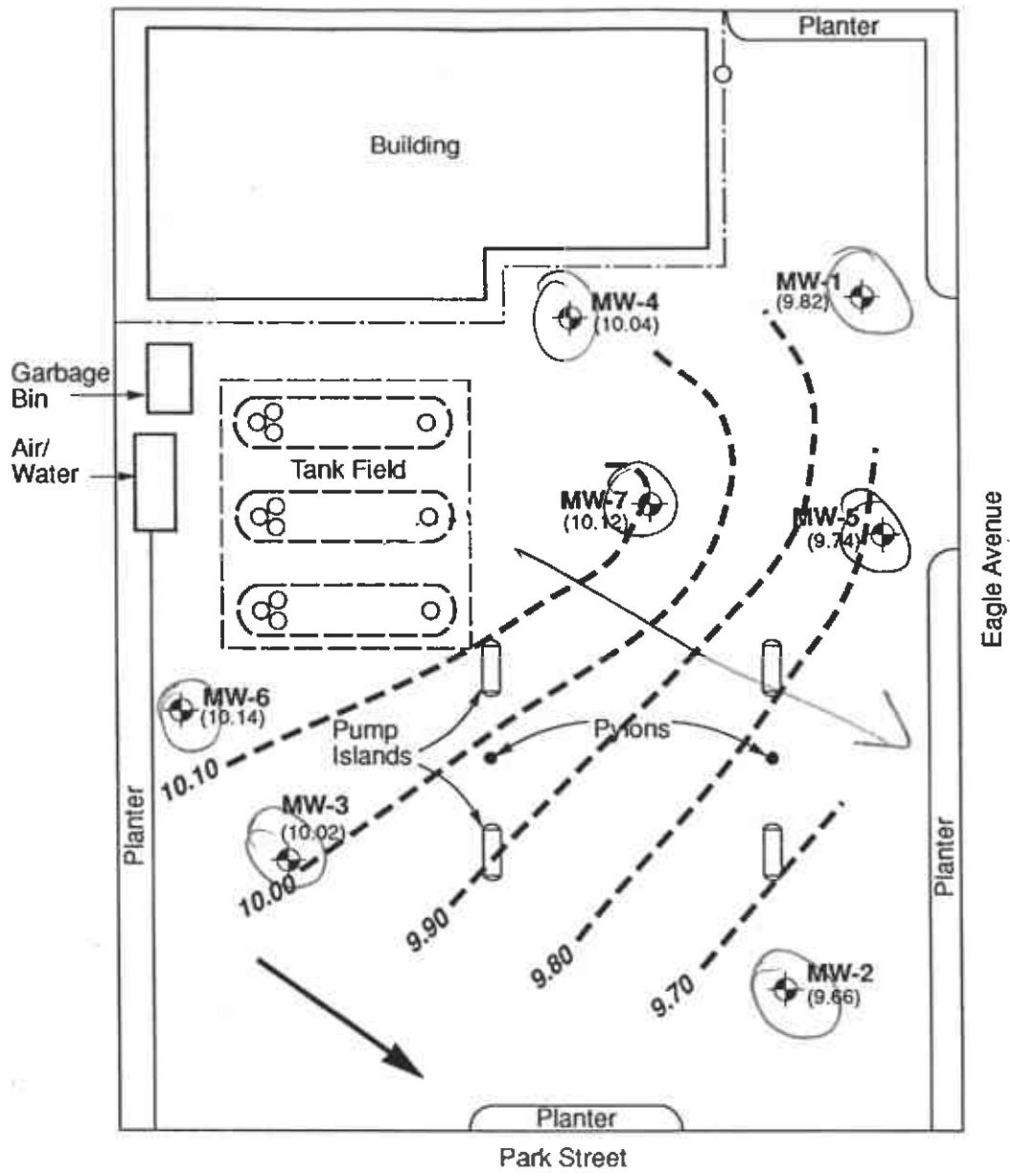
Well Number	Elevation Top of Well Casing ¹	Date	Depth to Water BTOC ² (feet)	Depth to Product BTOC (feet)	Product Thickness (feet)	Potentiometric Surface Elevation (feet above MSL)
MW-7 (cont.)	07-24-91		6.22	NP	NP	10.90
	09-10-91		6.71	NP	NP	10.41
	09-23-91		6.84	NP	NP	10.28
	10-21-91		7.00	NP	NP	10.12

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- 1 Elevations surveyed to mean sea level.
- 2 BTOC - Below top of casing.
- 3 NP: No product.

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MW-6
(10.14)

EXPLANATION

Monitoring well location

Potentiometric surface elevation
in feet above Mean Sea Level

Potentiometric surface elevation
contour

Approximate groundwater
flow direction

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0 20 40

APPROXIMATE
SCALE IN FEET



Harding Lawson Associates

Engineering and
Environmental Services

DRAWN
PGc

JOB NUMBER
4167,416.02

Potentiometric Surface Contours

October 22, 1991

Exxon Station #7-0104
Alameda, California

APPROVED

DATE
11/91

REVISED DATE

PLATE

1



Job Name Exxon ALAMEDA
Job Number 04167, 326, 02
Recorded by Karl J. Gross
(Signature)

GROUND-WATER SAMPLING FORM

Well No. MW - 1
Well Type: Monitor Extraction Other _____
Well Material: PVC St. Steel Other _____
Date 10-22-91 Time 905
Sampled by KJG (Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC): 20.5

Water Level Depth (WL in feet BTOC): 7.53

Number of Well Volumes to be purged (# Vols)

3 4 5 10 Other _____

PURGE VOLUME CALCULATION

$$\left(\frac{20.5}{\text{TD (feet)}} - \frac{7.53}{\text{WL (feet)}} \right) \times \frac{4}{\text{D (inches)}}^2 \times \frac{3}{\# \text{ Vols}} \times 0.0408 = 25.4 \text{ gallons}$$

Calculated Purge Volume

PURGE TIME

850 Start 900 Stop _____ Elapsed

PURGE RATE

Initial _____ gpm Final _____ gpm

AVERAGE PURGE VOLUME

26 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. ($\mu\text{mhos/cm}$)	T <input checked="" type="checkbox"/> $^{\circ}\text{C}$ <input type="checkbox"/> $^{\circ}\text{F}$	Other <u>THICK</u>
0	6.5	600	19	>100
8	6.7	600	20	>100
16	6.8	600	21	50NTU
26	6.8	550	21	33.

Minutes Since Pumping Began	pH	Cond. ($\mu\text{mhos/cm}$)	T <input type="checkbox"/> $^{\circ}\text{C}$ <input checked="" type="checkbox"/> $^{\circ}\text{F}$	Other
Meter Nos.	1566	16097	2969	

Observations During Purging (Well Condition, Turbidity, Color, Odor): BLW. SLIGHT ODOR, NO SHEEN, TURBID, CLEARING

Discharge Water Disposal: Sanitary Sewer Storm Sewer Other DRUM ON SITE

WELL SAMPLING

SAMPLING METHOD

Bailer - Type: S.S.

Submersible Centrifugal Bladder; Pump No.: _____

Same As Above

Grab - Type: _____

Other - Type: _____

SAMPLE DISTRIBUTION

Sample Series: 9110

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
2201	3 VOLAS	TPH/GAS, BTEX	HCl	PACE	
					RECEIVED
					NOV 26 1991
					Alameda Co DEM HHW DIV

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.



GROUND-WATER SAMPLING FORM

Job Name Exxon Alameda
Job Number 04167 326
Recorded by Karl J. Gram
(Signature)

Well No. 1MW-3
Well Type: Monitor Extraction Other _____
Well Material: PVC St. Steel Other _____
Date _____ Time 1045
Sampled by _____ (Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other _____
Total Depth of Casing (TD in feet BTOC): 14.00
Water Level Depth (WL in feet BTOC): 7.10
Number of Well Volumes to be purged (# Vols)
 3 4 5 10 Other _____

PURGE METHOD

Bailer - Type: _____
 Submersible Centrifugal Bladder; Pump No.: _____
 Other - Type: _____

PUMP INTAKE SETTING

Near Bottom Near Top Other _____
Depth in feet (BTOC): _____ Screen Interval in feet (BTOC):
from _____ to _____

PURGE VOLUME CALCULATION

$$\left(\frac{14.0}{\text{TD (feet)}} - \frac{7.10}{\text{WL (feet)}} \right) \times \frac{4}{\text{D (inches)}}^2 \times \frac{3}{\text{# Vols}} \times 0.0408 = \frac{13.5}{\text{Calculated Purge Volume}} \text{ gallons}$$

PURGE TIME

1034 Start 1038 Stop _____ Elapsed _____

PURGE RATE

Initial _____ gpm Final _____ gpm

FACTUAL PURGE VOLUME

10 _____ gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. ($\mu\text{mhos/cm}$)	T <input checked="" type="checkbox"/> $^{\circ}\text{C}$ <input type="checkbox"/> $^{\circ}\text{F}$	Other TGRS
0	7.3	500	22	28 NTU
5	7.0	900	22	>100
10	6.9	450	22	>100
15 DRY	10	10	GAL	

Minutes Since Pumping Began	pH	Cond. ($\mu\text{mhos/cm}$)	T <input type="checkbox"/> $^{\circ}\text{C}$ <input checked="" type="checkbox"/> $^{\circ}\text{F}$	Other
Meter Nos.	1566	16097	2969	

Observations During Purging (Well Condition, Turbidity, Color, Odor): GREY, STRONG ODOR, NO SHEEN, TURBID FIBRIL

Discharge Water Disposal: Sanitary Sewer Storm Sewer Other DRAINS ON SITE

WELL SAMPLING

SAMPLING METHOD

Bailer - Type: SS
 Submersible Centrifugal Bladder; Pump No.: _____

Same As Above

Grab - Type: _____

Other - Type: _____

SAMPLE DISTRIBUTION

Sample Series: 9110

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
2203	3100 AS	TPH/GAS, BTEX	HCL	PACE	
					RECEIVED
					NOV 26 1991
					Alameda Co DEH HHW DIV

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.

Other Samples

Type	Sample No.

GROUND-WATER SAMPLING FORM

Job Name Ethel Alameda
Job Number 04167 326 oz
Recorded by WJL

(Signature)

Well No. M-4
Well Type: Monitor Extraction Other _____
Well Material: PVC St. Steel Other _____
Date 10/22/91 Time 0940
Sampled by WJK (Initials)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC): 18.0

Water Level Depth (WL in feet BTOC): 7.30

Number of Well Volumes to be purged (# Vols):

3 4 5 10 Other _____

PURGE VOLUME CALCULATION

$$\left(\frac{18}{\text{TD (feet)}} - \frac{7.30}{\text{WL (feet)}} \right) \times \frac{4}{\text{D (inches)}}^2 \times \frac{3}{\# \text{ Vols}} \times 0.0408 = \frac{21}{\text{Calculated Purge Volume}} \text{ gallons}$$

PURGE TIME

0914 Start 0930 Stop 16 Elapsed

PURGE RATE

Initial W/M gpm Final _____ gpm

ACTUAL PURGE VOLUME

21 gallons

FIELD PARAMETER MEASUREMENT

Minutes Since Pumping Began	pH	Cond. ($\mu\text{mhos}/\text{cm}$)	T <input checked="" type="checkbox"/> $^{\circ}\text{C}$ <input type="checkbox"/> $^{\circ}\text{F}$	Other <u>NTU</u>
0914	6.7	700	20.5	60
0916	6.6	725	21.0	97
0917	6.5	725	20.5	>100
0918	6.5	725	20.5	>100

Note: Nearly dry by end - Take Sample to Lab

Minutes Since Pumping Began	pH	Cond. ($\mu\text{mhos}/\text{cm}$)	T <input checked="" type="checkbox"/> $^{\circ}\text{C}$ <input type="checkbox"/> $^{\circ}\text{F}$	Other

Meter Nos.

Observations During Purging (Well Condition, Turbidity, Color, Odor): mod-stagn, odor - hydrogen, mod-stagn, clear

Discharge Water Disposal: Sanitary Sewer Storm Sewer Other Drum onsite

WELL SAMPLING

SAMPLING METHOD

Bailer - Type: S.S.

Submersible Centrifugal Bladder; Pump No.: _____

Same As Above

Grab - Type: _____

Other - Type: _____

SAMPLE DISTRIBUTION

Sample Series: 9110

Sample No.	Volume/Cont.	Analysis Requested	Preservatives	Lab	Comments
91104	3404	BIXC-70464	No HCl	PAC	
					RECEIVED
					NOV 26 1991
					Alameda Co DEH HHW DIV

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.

Blank Samples

Type	Sample No.
Fid	91102208

Taylor
O110

Other Samples

Type	Sample No.

October 28, 1991

30 OCT 91 9:17

Mr. Gary Leiberman
Harding Lawson Associates
7655 Redwood Boulevard
Novato, CA 94948

RE: PACE Project No. 411022.507
Client Reference: Exxon 7-0104

Dear Mr. Leiberman:

Enclosed is the report of laboratory analyses for samples received October 22, 1991.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

Carol Reid

Carol Reid
Project Manager

Enclosures

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HHW DIV

REPORT OF LABORATORY ANALYSIS

Harding Lawson Associates
 7655 Redwood Boulevard
 Novato, CA 94948

October 28, 1991
 PACE Project Number: 411022507

Attn: Mr. Gary Leiberman
 CC: Client Reference: Exxon 7-0104

PACE Sample Number:	70 0106680
Date Collected:	10/22/91
Date Received:	10/22/91
Client Sample ID:	2206

Parameter	Units	MDL	DATE ANALYZED
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ORGANIC ANALYSIS

TPH GASOLINE/BTEX

TOTAL FUEL HYDROCARBONS, (LIGHT): Purgeable Fuels, as Gasoline (EPA 8015)	ug/L	2500	18000	10/23/91
PURGEABLE AROMATICS (BTXE BY EPA 8020):			-	10/23/91
Benzene	ug/L	25	3100	10/23/91
Toluene	ug/L	25	700	10/23/91
Ethylbenzene	ug/L	25	1400	10/23/91
Xylenes, Total	ug/L	25	2900	10/23/91

MDL Method Detection Limit

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 HHW DIV

REPORT OF LABORATORY ANALYSIS

Mr. Gary Leiberman
 Page 2

October 28, 1991
 PACE Project Number: 411022507

Client Reference: Exxon 7-0104

PACE Sample Number:	70 0106699
Date Collected:	10/22/91
Date Received:	10/22/91
Client Sample ID:	2205

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

TPH GASOLINE/BTEX				
TOTAL FUEL HYDROCARBONS, (LIGHT):		-		10/23/91
Purgeable Fuels, as Gasoline (EPA 8015)	ug/L	1200	6600	10/23/91
PURGEABLE AROMATICS (BTXE BY EPA 8020):			-	10/23/91
Benzene	ug/L	12	2000	10/23/91
Toluene	ug/L	12	64	10/23/91
Ethylbenzene	ug/L	12	320	10/23/91
Xylenes, Total	ug/L	12	480	10/23/91

MDL Method Detection Limit

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REPORT OF LABORATORY ANALYSIS

Mr. Gary Leiberman
 Page 3

October 28, 1991
 PACE Project Number: 411022507

Client Reference: Exxon 7-0104

PACE Sample Number:

70 0106702

Date Collected:

10/22/91

Date Received:

10/22/91

Client Sample ID:

2203

Parameter

Units MDL DATE ANALYZED

ORGANIC ANALYSIS

TPH GASOLINE/BTEX

TOTAL FUEL HYDROCARBONS, (LIGHT):

10/23/91

Purgeable Fuels, as Gasoline (EPA 8015) ug/L 5000 23000 10/23/91

PURGEABLE AROMATICS (BTXE BY EPA 8020):

10/23/91

Benzene

ug/L 50 3400 10/23/91

Toluene

ug/L 50 150 10/23/91

Ethylbenzene

ug/L 50 2500 10/23/91

Xylenes, Total

ug/L 50 4400 10/23/91

MDL Method Detection Limit

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 HHW DIV

Mr. Gary Leiberman
 Page 4

October 28, 1991
 PACE Project Number: 411022507

Client Reference: Exxon 7-0104

PACE Sample Number:	70 0106710		
Date Collected:	10/22/91		
Date Received:	10/22/91		
Client Sample ID:	2208		
<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>

ORGANIC ANALYSIS

TPH GASOLINE/BTEX				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	10/23/91
Purgeable Fuels, as Gasoline (EPA 8015)	ug/L	50	ND	10/23/91
PURGEABLE AROMATICS (BTXE BY EPA 8020):			-	10/23/91
Benzene	ug/L	0.5	ND	10/23/91
Toluene	ug/L	0.5	ND	10/23/91
Ethylbenzene	ug/L	0.5	ND	10/23/91
Xylenes, Total	ug/L	0.5	ND	10/23/91

MDL Method Detection Limit
 ND Not detected at or above the MDL.

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 HHW DIV

Mr. Gary Leiberman
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October 28, 1991
 PACE Project Number: 411022507

Client Reference: Exxon 7-0104

PACE Sample Number:	70 0106729
Date Collected:	10/22/91
Date Received:	10/22/91
Client Sample ID:	2207

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

TPH GASOLINE/BTEX				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	10/23/91
Purgeable Fuels, as Gasoline (EPA 8015)	ug/L	2000	10000	10/23/91
PURGEABLE AROMATICS (BTXE BY EPA 8020):			-	10/23/91
Benzene	ug/L	20	990	10/23/91
Toluene	ug/L	20	26	10/23/91
Ethylbenzene	ug/L	20	1900	10/23/91
Xylenes, Total	ug/L	20	490	10/23/91

MDL Method Detection Limit

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 HHW DIV

Mr. Gary Leiberman
 Page 6

October 28, 1991
 PACE Project Number: 411022507

Client Reference: Exxon 7-0104

PACE Sample Number:	70 0106737
Date Collected:	10/22/91
Date Received:	10/22/91
Client Sample ID:	2202

Parameter	Units	MDL	DATE ANALYZED
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ORGANIC ANALYSIS.

TPH GASOLINE/BTEX

TOTAL FUEL HYDROCARBONS, (LIGHT):	-	10/23/91		
Purgeable Fuels, as Gasoline (EPA 8015)	ug/L	10000	34000	10/23/91
PURGEABLE AROMATICS (BTXE BY EPA 8020):	-	10/23/91		
Benzene	ug/L	100	3700	10/23/91
Toluene	ug/L	100	1100	10/23/91
Ethylbenzene	ug/L	100	1800	10/23/91
Xylenes, Total	ug/L	100	5200	10/23/91

MDL Method Detection Limit

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 HHW DIV

Mr. Gary Leiberman
 Page 7

October 28, 1991
 PACE Project Number: 411022507

Client Reference: Exxon 7-0104

PACE Sample Number:	70 0106745
Date Collected:	10/22/91
Date Received:	10/22/91
Client Sample ID:	2201

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

TPH GASOLINE/BTEX

TOTAL FUEL HYDROCARBONS, (LIGHT):

Purgeable Fuels, as Gasoline (EPA 8015) ug/L 50 540 10/23/91

PURGEABLE AROMATICS (BTXE BY EPA 8020):

Benzene ug/L 0.5 220 10/23/91

Toluene ug/L 0.5 1.8 10/23/91

Ethylbenzene ug/L 0.5 110 10/23/91

Xylenes, Total ug/L 0.5 7.8 10/23/91

MDL Method Detection Limit

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 HHW DIV

Mr. Gary Leiberman
 Page 8

October 28, 1991
 PACE Project Number: 411022507

Client Reference: Exxon 7-0104

PACE Sample Number:	70 0106753
Date Collected:	10/22/91
Date Received:	10/22/91
Client Sample ID:	2204

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

TPH GASOLINE/BTEX				
TOTAL FUEL HYDROCARBONS, (LIGHT):		-		10/23/91
Purgeable Fuels, as Gasoline (EPA 8015)	ug/L	50	4600	10/23/91
PURGEABLE AROMATICS (BTXE BY EPA 8020):			-	10/23/91
Benzene	ug/L	0.5	750	10/23/91
Toluene	ug/L	0.5	190	10/23/91
Ethylbenzene	ug/L	0.5	350	10/23/91
Xylenes, Total	ug/L	0.5	780	10/23/91

MDL Method Detection Limit

These data have been reviewed and are approved for release.

Mark A. Valentini, Ph.D.
 Regional Director

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REPORT OF LABORATORY ANALYSIS

Mr. Gary Leiberman
Page 9

QUALITY CONTROL DATA

October 28, 1991
PACE Project Number: 411022507

Client Reference: Exxon 7-0104

TPH GASOLINE/BTEX
Batch: 70 07120
Samples: 70 0106745, 70 0106753

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020):			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference	Dupl	Recv	Recv
			Value			
Purgeable Fuels, as Gasoline (EPA 8015)	ug/L	50	355	100%	88%	12%
Benzene	ug/L	0.5	40.0	103%	103%	0%
Toluene	ug/L	0.5	40.0	102%	104%	1%
Ethylbenzene	ug/L	0.5	40.0	102%	105%	2%
Xylenes, Total	ug/L	0.5	80.0	100%	103%	2%

MDL Method Detection Limit
RPD Relative Percent Difference

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QUALITY CONTROL DATA

October 28, 1991
 PACE Project Number: 411022507

Client Reference: Exxon 7-0104

TPH GASOLINE/BTEX

Batch: 70 07127

Samples: 70 0106680, 70 0106699, 70 0106702, 70 0106710, 70 0106729
 70 0106737

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):		-	
Purgeable Fuels, as Gasoline (EPA 8015)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020):		-	
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference	Dupl	RPD
			Value	Recv	
Purgeable Fuels, as Gasoline (EPA 8015)	ug/L	50	287	86%	87% 1%
Benzene	ug/L	0.5	40.0	104%	103% 0%
Toluene	ug/L	0.5	40.0	100%	97% 3%
Ethylbenzene	ug/L	0.5	40.0	96%	96% 0%
Xylenes, Total	ug/L	0.5	80.0	95%	94% 1%

MDL Method Detection Limit

RPD Relative Percent Difference

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Alameda Co DEH
 HHW DIV



EXXON COMPANY, U.S.A.

P.O. Box 4415, Houston, TX 77210-4415

CHAIN OF CUSTODY

- Novato, CA
11 Digital Drive, 94949
(415) 883-6100
 - Irvine, CA
Alton Business Park
30 Hughes St., Suite 206, 92718
(714) 380-9559

Consultant Name: Harding Lawsa Associates

Address: 7655 Redwood Blvd CA 94948

Project Contact: Gary Liberman Project #: 04167-326.02

Phone #: 415-892-6821

Project #: 0416-1, S16

Fax #: 892 1586

Consultant Work Release #: 911028671 - 90066058

Exxon Contact:

Phone #:

Site RAS #:

7-0104

Site Location:

Laboratory Work Release #:

Sampled by (please print) <i>Bill Feltor</i> <i>Carl Gross</i>					SOIL		WATER											
Sampler Signature <i>[Signature]</i> Date Sampled 10/22/91					TPH/GAS/BTEX EPA 8015/6020	TPH/Diesel EPA 8015	Organic Lead DHS Method	TPH/GAS/BTEX EPA 8015/6022	TPH/Diesel EPA 8015	Organic Lead DHS Method	TPH EPA 18.1	Total Oil & Grease SM 5320					Remarks	
Sample Description	Collection Date/Time	Matrix	Prsv.	# of Cont.														
2206	9110/1025	H ₂ O	HCl	3			X									10668.0		
2205	9110/0945	H ₂ O	HCl	3			X									69.9		
2203	9110/1040	H ₂ O	HCl	3			X									70.2		
2208	9110/1020	H ₂ O	HCl	3			X									71.0		
2207	9110/0940	H ₂ O	HCl	3			X									72.9		
2202	9110/1020	H ₂ O	HCl	3			X									73.7		
2201	9110/0940	H ₂ O	HCl	3			X									74.5		
2204	9110/0940	H ₂ O	HCl	3			X									75.3		
10/11																		
Cooler No.	Relinquished by/Affiliation				Accepted by/Affiliation				Date	Time								
Cooler Seal Intact	<i>Wm Feltor</i> HCA				<i>Stephni Matz</i> PACE				10/22/91	11:45 AM								
<input type="checkbox"/> Yes																		
<input type="checkbox"/> No																		
Turnaround Time (circle choice)																		
24 hr.																		
48 hr.																		
72 hr.																		
96 hr.																		
5 workday (standard)																		
Shipment Method	Additional Comments:																	
Shipment Date																		